Post-Closure Permit Renew Application

for

Since 1948

Mixon Brothers Wood Preserving, Inc.

March 2023

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Post-Closure Permit
Renew Application

March 2023

Volume I of I

for

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745

EPA I.D. Number OKD007336258
Post-Closure Operations Permit Number 007336258PC

RECEIVED
MAR 03 2023
LAND PROTECTION DIVISION
DEPT. OF ENVIRON. QLTY

by

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

2/3

Table of Contents

LIST OF TABLES

Tables

LIST OF FIGURES

Figures

Black and Associates Environmental Consultants, Inc.

LIST OF ATTACHMENTS

Attachments

1 Drip Pad Annual Certification

2 SWPPP Annual Certification

3 List of Laboratory Reports for Outfall 001 (2013-2022)

4 List of Laboratory Reports for CWPZ Monitoring Wells (2013-2022)

5 Employees' Safety and Pollution Prevention Agenda November 15, 2022

Black and Associates Environmental Consultants, Inc.

LIST OF APPENDICES

Appendix

Black and Associates Environmental Consultants, Inc.

LIST OF APPENDICES (Continued)

United States Environmental Protection Agency
RCRA SUBTITLE C SITE IDENTIFICATION FORM

1. Reason for Submittal (Select only one.)

☐	Obtaining or updating an EPA ID number for on-going regulated activities (Items 10-17 below) that will continue for a period of time.
☑	Submitting as a component of the Hazardous Waste Report for 2021 (Reporting Year)
	☐ Site was a TSD facility, a reverse distributor, and/or generator of ≥ 1,000 kg of non-acute hazardous waste, > 1 kg of acute hazardous waste, or > 100 kg of acute hazardous waste spill cleanup in **one or more months of the reporting year** (or State equivalent LQG regulations)
☐	Notifying that regulated activity is no longer occurring at this Site
☐	Obtaining or updating an EPA ID number for conducting Electronic Manifest Broker activities
☐	Submitting a new or revised Part A (permit) Form

2. Site EPA ID Number

O	K	D	0	3	3	6	2	0	7	5	8

3. Site Name

Mixon Brother Wood Preserving Inc.

4. Site Location Address

Street Address 1202 NW 16th Street		
City, Town, or Village Idabel		County McCurtain
State OK	Country USA	Zip Code 74745
Latitude 30 50' 30" North	Longitude 94 50' 30" West	☐ Use Lat/Long as Primary Address

5. Site Mailing Address ☐ Same as Location Street Address

Street Address P.O. Box 327		
City, Town, or Village Idabel		
State OK	Country USA	Zip Code 74745

6. Site Land Type

☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

7. North American Industry Classification System (NAICS) Code(s) for the Site (at least 5-digit codes)

A. (Primary) 321114	C.
B.	D.

8. Site Contact Information ☐ Same as Location Address

First Name Bob	MI	Last Name Mixon
Title Secretary		
Street Address P.O. Box 327		
City, Town, or Village Idabel		
State OK	Country USA	Zip Code 74745
Email mixonbob@hotmail.com		
Phone (580) 286-9494	Ext	Fax (580) 286-3356

9. Legal Owner and Operator of the Site

A. Name of Site's Legal Owner ☐ Same as Location Address

Full Name Bob Mixon		Date Became Owner (mm/dd/yyyy) 10/27/1977
Owner Type ☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other		
Street Address 1202 NW 16th Street		
City, Town, or Village Idabel		
State OK	Country USA	Zip Code 74745
Email mixonbob@hotmail.com		
Phone (580) 286-9494	Ext	Fax (580) 286-3356
Comments		

B. Name of Site's Legal Operator ☐ Same as Location Address

Full Name Gary Mixon		Date Became Operator (mm/dd/yyyy) 10/27/1977
Operator Type ☑ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other		
Street Address 1202 NW 16th Street		
City, Town, or Village Idabel		
State OK	Country USA	Zip Code 74745
Email mixongary@hotmail.com		
Phone (580) 286-9494	Ext	Fax (580) 286-3356
Comments		

10. Type of Regulated Waste Activity (at your site)
Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities

☑ Y ☐ N	1. Generator of Hazardous Waste—If "Yes", mark only one of the following—a, b, c		
	☐	a. LQG	-Generates, in any calendar month, 1,000 kg/mo (2,200 lb/mo) or more of non-acute hazardous waste (includes quantities imported by importer site); or - Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or - Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.
	☐	b. SQG	100 to 1,000 kg/mo (220-2,200 lb/mo) of non-acute hazardous waste and no more than 1 kg (2.2 lb) of acute hazardous waste and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material.
	☑	c. VSQG	Less than or equal to 100 kg/mo (220 lb/mo) of non-acute hazardous waste.
☐ Y ☑ N	2. Short-Term Generator (generates from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section. *Note: If "Yes", you MUST indicate that you are a Generator of Hazardous Waste in Item 10.A.1 above.*		
☐ Y ☑ N	3. Treater, Storer or Disposer of Hazardous Waste—Note: Part B of a hazardous waste permit is required for these activities.		
☐ Y ☑ N	4. Receives Hazardous Waste from Off-site		
☑ Y ☐ N	5 Recycler of Hazardous Waste		
	☐	a. Recycler who stores prior to recycling	
	☑	b. Recycler who does not store prior to recycling	
☐ Y ☑ N	6. Exempt Boiler and/or Industrial Furnace—If "Yes", mark all that apply.		
	☐	a. Small Quantity On-site Burner Exemption	
	☐	b. Smelting, Melting, and Refining Furnace Exemption	

B. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g. D001, D003, F007, U112). Use an additional page if more spaces are needed.

K001						

C. Waste Codes for State Regulated (non-Federal) Hazardous Wastes. Please list the waste codes of the State hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

11. Additional Regulated Waste Activities (NOTE: Refer to your State regulations to determine if a separate permit is required.)

A. Other Waste Activities

☐ Y ☑ N		1. Transporter of Hazardous Waste—If "Yes", mark all that apply.
	☐	a. Transporter
	☐	b. Transfer Facility (at your site)
☐ Y ☑ N		2. Underground Injection Control
☐ Y ☑ N		3. United States Importer of Hazardous Waste
☐ Y ☑ N		4. Recognized Trader—If "Yes", mark all that apply.
	☐	a. Importer
	☐	b. Exporter
☐ Y ☑ N		5. Importer/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart G—If "Yes", mark all that apply.
	☐	a. Importer
	☐	b. Exporter

B. Universal Waste Activities

☐ Y ☑ N		1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If "Yes" mark all that apply. Note: Refer to your State regulations to determine what is regulated.
	☐	a. Batteries
	☐	b. Pesticides
	☐	c. Mercury containing equipment
	☐	d. Lamps
	☐	e. Aerosol Cans
	☐	f. Other (specify) ____________
	☐	g. Other (specify) ____________
☐ Y ☑ N		2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities

☐ Y ☑ N		1. Used Oil Transporter—If "Yes", mark all that apply.
	☐	a. Transporter
	☐	b. Transfer Facility (at your site)
☐ Y ☑ N		2. Used Oil Processor and/or Re-refiner—If "Yes", mark all that apply.
	☐	a. Processor
	☐	b. Re-refiner
☐ Y ☑ N		3. Off-Specification Used Oil Burner
☐ Y ☑ N		4. Used Oil Fuel Marketer—If "Yes", mark all that apply.
	☐	a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
	☐	b. Marketer Who First Claims the Used Oil Meets the Specifications

D. Pharmaceutical Activities

☐ Y ☑ N		1. Operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals—if "Yes", mark only one. Note: See the item-by-item instructions for definitions of healthcare facility and reverse distributor.
	☐	a. Healthcare Facility
	☐	b. Reverse Distributor
☐ Y ☑ N		2. Withdrawing from operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals. Note: You may only withdraw if you are a healthcare facility that is a VSQG for all of your hazardous waste, including hazardous waste pharmaceuticals.

12. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262, Subpart K.

☐ Y ☑ N		A. Opting into or currently operating under 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories— If "Yes", mark all that apply. Note: See the item-by-item instructions for definitions of types of eligible academic entities.
	☐	1. College or University
	☐	2. Teaching Hospital that is owned by or has a formal written affiliation with a college or university
	☐	3. Non-profit Institute that is owned by or has a formal written affiliation with a college or university
☐ Y ☑ N		B. Withdrawing from 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories.

13. Episodic Generation

☐ Y ☑ N	Are you an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves you to a higher generator category. If "Yes", you must fill out the Addendum for Episodic Generator.

14. LQG Consolidation of VSQG Hazardous Waste

☐ Y ☑ N	Are you an LQG notifying of consolidating VSQG Hazardous Waste Under the Control of the Same Person pursuant to 40 CFR 262.17(f)? If "Yes", you must fill out the Addendum for LQG Consolidation of VSQG hazardous waste.

15. Notification of LQG Site Closure for a Central Accumulation Area (CAA) (optional) OR Entire Facility (required)

☐ Y ☑ N	LQG Site Closure of a Central Accumulation Area (CAA) or Entire Facility.
	A. ☐ Central Accumulation Area (CAA) or ☐ Entire Facility
	B. Expected closure date: ____________ mm/dd/yyyy
	C. Requesting new closure date: ____________ mm/dd/yyyy
	D. Date closed : ____________ mm/dd/yyyy ☐ 1. In compliance with the closure performance standards 40 CFR 262.17(a)(8) ☐ 2. Not in compliance with the closure performance standards 40 CFR 262.17(a)(8)

16. **Notification of Hazardous Secondary Material (HSM) Activity**

☐ Y ☑ N	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material.

17. **Electronic Manifest Broker**

☐ Y ☑ N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?

18. **Comments** (include item number for each comment)

10 A Recycle 3,686 gallons contaminated Ground Water from PZ-4, 5, 6, & 7 into wood during 2022.

19. **Certification** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11).**

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy) 3/1/2023
Printed Name (First, Middle Initial Last) Bob Mixon	Title Secretary
Email mixonbob@hotmail.com	

Signature of legal owner, operator or authorized representative Bob Mixon	Date (mm/dd/yyyy) 3-1-2023
Printed Name (First, Middle Initial Last) Bob K Mixon	Title Secretary
Email	

EPA ID Number | O | K | D | 0 | 3 | 3 | 6 | 2 | 0 | 7 | 5 | 8 | OMB# 2050-0024; Expires 04/30/2024

United States Environmental Protection Agency

HAZARDOUS WASTE REPORT 2021 (reporting cycle)

WASTE GENERATION AND MANAGEMENT (GM) FORM

1. **Waste Characteristics**

A. Waste Description	Contaminated Ground Water					
B. EPA Hazardous Waste Code(s)	K001					
C. State Hazardous Waste Code(s)						

D. Source Code G49	Management Method (G25)	Country Code (G62)
E. Form Code W219	F. Waste Minimization Code B	G. Radioactive Mixed ☐ Y ☑ N

H. Quantity	UOM	Density 1.00	☐ lbs/gal ☑ sg

2. **On-site Generation and Management of Hazardous Waste**

☑ Y ☐ N	Was any of this waste that was generated at this facility treated, disposed, and/or recycled on-site? If yes, continue to On-site Process System 1.	
Process System 1	Management Method Code H039	Quantity 3,686
Process System 2	Management Method Code	Quantity

3. **Off-site Shipment of Hazardous Waste**

☐ Y ☑ N A. Was any of this waste that was generated at this facility shipped off-site for treatment, disposal, or recycling? If yes, continue to Site 1.

Site 1		
B. EPA ID of facility to which waste was shipped	C. Management Method Code	D. Total Quantity Shipped

Site 2		
B. EPA ID of facility to which waste was shipped	C. Management Method Code	D. Total Quantity Shipped

Site 3		
B. EPA ID of facility to which waste was shipped	C. Management Method Code	D. Total Quantity Shipped

4. **Comments**

Recycle 3,686 gallons contaminated Ground Water from PZ-4, 5, 6, & 7 into wood during 2022.

United States Environmental Protection Agency

HAZARDOUS WASTE PERMIT PART A FORM

1. Facility Permit Contact

First Name **Bob**	MI	Last Name **Mixon**
Title **Secretary**		
Email		
Phone **(580) 286-9494**	Ext	Fax **(580) 286-3356**

2. Facility Permit Contact Mailing Address

Street Address **P.O. Box 327**		
City, Town, or Village **Idabel**		
State **OK**	Country **USA**	Zip Code **74745**

3. Facility Existence Date (mm/dd/yyyy)

10/2/1964

4. Other Environmental Permits

A. Permit Type	B. Permit Number													C. Description
N	O	K	0	0	4	4	4	5	8					Storm Water
R	O	K	D	0	3	3	6	2	0	7	5	8		K001
E	0	0	7	3	3	6	2	5	8	P	P	C		Sample Monitoring Wells

5. Nature of Business

PLANT OPERATIONS:

PROCESS/OPERATION - Dual (cellutreat + QNAP)

PRODUCT - Dual (cellutreat + QNAP) wood post

DAILY QUANTITY - 79 cubic feet/day

6. Process Codes and Design Capacities

Line Number		A. Process Code			B. Process Design Capacity (1) Amount	B. Process Design Capacity (2) Unit of Measure	C. Process Total Number of Units	D. Unit Name

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.		A. EPA Hazardous Waste No.				B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes (1) Process Codes									D. Processes (2) Process Description (if code is not entered in 7.D1))

8. Map

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

9. Facility Drawing

All existing facilities must include a scale drawing of the facility. See instructions for more detail.

10. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas. See instructions for more detail.

11. Comments

Recycle 3,686 gallons contaminated Ground Water from PZ-4, 5, 6, & 7 into wood during 2022.

Table 1. Summary of Analytical Results from Outfall 001 (2013 to 2022)

I.D. #	Site Location		Date	Sample Type	PH SU	Temperature ^0C	Total uspended Solids (TSS) mg/L	Oil & Grease (HEM) mg/L	Total Phenolics mg/L
1	Outfall 001	*	7-Jun-13	water	7.67	21.1	< 5.00	< 5.00	< 0.140
2	Outfall 001	*	8-Nov-13	water	8.15		< 10.0	< 10.0	< 0.140
3	Outfall 001	*	10-Mar-15	water	7.27	16.3	< 12.5	< 5.00	< 0.140
4	Outfall 001	*	21-May-15	water	7.33	19.6	< 12.5	< 5.00	< 0.140
5	Outfall 001	*	15-Dec-15	water	7.88	14.1	< 12.5	< 5.00	0.398
6	Outfall 001	*	22-Apr-16	water	8.06	24.1	< 12.5	< 5.00	< 0.140
7	Outfall 001	*	6-Jul-17	water	8.07	26.1	< 12.5	< 5.00	< 0.140
8	Outfall 001	*	28-Feb-18	water	7.84	17.7	< 12.5	< 5.00	< 0.140
9	Outfall 001	*	3-May-19	water	7.24	22.4	< 12.5	< 5.00	< 0.140
10	Outfall 001	*	20-May-19	water	7.82	21.8	< 12.5	< 5.00	< 0.140
11	Outfall 001	*	31-Mar-20	water	8.13	22.8	< 12.5	< 5.00	< 0.140
12	Outfall 001	*	27-May-21	water	7.70	21.8	< 12.5	< 5.00	< 0.140

* : Environmental Testing, Inc.

1.0 Introduction

Mixon Brothers Wood Preserving, Inc. (MBWP) operates a creosote wood preserving facility near Idabel Oklahoma. The facility has generated a listed hazardous waste, in the past and the listed material was stored in three surface impoundments and one waste pile. MBWP has closed these areas and a letter dated October 6, 1994 to MBWP by Mr. H.A. Caves/Assistant Division Director, Oklahoma Department of Environmental Quality (ODEQ), stated that the certification of closure meets the requirements of 40 CFR 265.115 and 270.11(d), and the survey plat meets the requirements of 40 CFR 265.116.

MBWP Post-Closure Operations Permit Number 007336258PC was issued by ODEQ in May 2013 for 10 years. The permit application is due six months prior to the expiration date of the current permit. ODEQ records show that the current permit will expire May 2023 and therefore the application for renewal is due by November 2022. An extension was grant and the application for renewal is due by March 2, 2023. Oklahoma Administrative Code Title 252, Chapter 205, include additional requirements as well as incorporated by reference to 40 CFR. As stated in the 40 CFR 270.1 and 40 CFR 270.10, the permit application contents for the Part B are listed in 40 CFR 270.14 through 270.29. Therefore the contents as required, are listed in order of 40 CFR 270.14 through 270.29 including additional requirements by OAC 252:205.

2.0 General Description of the Facility (40 CFR 270.14(b)(1))

2.1 Location

The MBWP facility is located northwest of Idabel, Oklahoma, west of U.S. Highway 70. The legal description is the NW1/4, NW1/4, Section 31, Township 7 South, Range 24 East Indian Median, McCurtain County (prior renewal application, Appendix F for complete description) and the site location is depicted in Figure 2.1. Topographic features of the area surrounding the facility are presented in Figure 2.2 and 2.3. The surveyed property lines are depict in Figure 2.4, 2.5, and Figure 2.6.

2.2 Operations

2.2.1 Current Operations

The plant has been in operation at this location since 1964, and maintains 4-6 employees during normal operations. The primary product is Dual (Cellutreat+QNAP) treated wood. The plant has two covered pressure vessels (or cylinders), seven feet in diameter and seventy-four feet in length, with a steel lined concrete sump that contains a steel insert with a leak detection system. The concrete drip pad is underlined by a leakage collection system, above the 60-mil HDPE geomembrane, and has two rail tracks. The drip pad was certified by an independent Oklahoma registered professional engineer and evaluated annually by an independent Oklahoma's registered professional engineer (Attachment 1). An operating management and inspection plan for the drip pad is maintained at the plant and includes routine inspections and if needed, removal of all wastes as required by 40 CFR 262.34(a)(1)(iii)(A) and (B) (prior renewal application, Appendix R for complete description). The Dual (Cellutreat+QNAP) product collection system recycles the materials to be recycled in the wood preserving process. All Dual (Cellutreat+QNAP) treated products are inspected to insure that the products are dry before being removed from the drip pad area.

The Storm Water Pollution Prevention Plan (SWPPP) contains the Facility Policy of Preventive Maintenance, the Chemical Storage Contingency Plan, and Oil Spill Prevention Control and Countermeasure Plan (refer to Appendix B for the Chemical Storage Contingency Plan, and Oil Spill Prevention Control and Countermeasure Plan). Routine inspections of the yard for infrequent and incidental drippage in the storage areas as required by 40 CFR 265.440(c) are included in the Plan. The SWPPP was certified by an independent Oklahoma registered professional engineer. The SWPPP is review annually and certified to meet the requirements of Federal Register, Vol. 57, No. 175, "Final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity.", Part IV: Storm Water Pollution Prevention Plans and Vol. 60, No. 189 "Final National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities (Attachment 2). Storm Water sampling of the runoff at Outfall 001A is performed as required by the ODEQ permit number OK0044458 (ID Number I-48000040) and under the Oklahoma Pollutant Discharge Elimination System (OPDES). The Permit was issued November 5, 2017 and expired on November 4, 2022. On July 14, 2022, a renewal application was submitted for review. The Project Logs of the Storm Water (Appendix C) and

Laboratory Analytical Reports (Attachment 3, List of Laboratory Reports and Appendix D) from 2013-2022, indicated that the Storm Water did not exceed or violated any of the parameters listed in the discharge permit (Table 1, Summary of Analytical Results from Outfall 001 (2013 to 2022)).

2.2.2 Past Operations

Past operational practice included the utilization of a pentachlorophenol (PCP) or creosote to preserve wood products. The primary contaminants of the wastewater were PCP, creosote, as well as tar resins and natural organics found in the wood. The wastewater was placed in a settling impoundment (impoundment #2) for settlement of suspended solids and oil/water separation. Water resulting from the completion of the process was then transferred into evaporation impoundment (impoundment #3) for volume reduction. Besides these impoundments, another impoundment (impoundment #1) was used as a holding area for makeup water in the cooling tower operation. Water from the holding impoundment was pumped to the top of the cooling tower and allowed to gravity flow through the cooling tower and back into the holding impoundment. The cooling tower was used to cool air in the cylinders when placing the cylinders under a vacuum. Past operations allowed for the transfer of fluids from one impoundment to another via pumping. The transfer of fluids occurred from the north to the south (from impoundment #1 to impoundment #2 to impoundment #3). Figure 2.4 (prior renewal application) depicts the schematic of the past treatment process.

In the west/central portion of the facility was a waste pile in which used motor oil taken from the MBWP equipment was disposed. Analytical data indicates that PCP contaminated materials were also present in the area. Figure 2.3, 2.4, 2.5, 2.6, and 19.1 presents the layout of the facility and depicts the location of the impoundments and the waste pile.

The bottom sediment sludge in the impoundments and the waste pile materials contains listed hazardous wastes as defined by 40 CFR 261 and that has US EPA hazardous waste number designation K001.

3.0 Waste Characterization (40 CFR 270.14(b)(2))

The information provided a basis for selecting indicator test parameters to be utilized in the ground water assessment portion of the post-closure plan. The following indicator parameter is recommended for all units: PCP.

3.1 Impoundment Sludge Sampling

During 1985 and 1986, measurements were taken of liquid and sludge depth in each impoundment as well as taking representative samples to characterize the waste. Table 3.1 (prior renewal application) presents the list sample type and the parameters utilization in the waste characterization. The samples were collected utilized methodology similar to SW846, Method number 1.44 (1). For detail description of sampling procedures refer to MBWP RCRA Closure Plan for the Surface Impoundments and Waste Piles (prior renewal application, section 3.2.1, pages 10 and 11).

The results of the characterization, which is listed in Table 3.2 (prior renewal application), indicated that the waste contains compounds listed in 40 CFR Part 261. These compounds are listed as the primary hazardous constituents that may be associated with K001 wastes.

Pursuant to US EPA's directive, additional waste information was obtained in 1987. The characterization results are consistent with past investigations, except that chromium was consistently present at elevated concentrations in all the impoundments. Higher concentrations of these constituents were generally detected in the impoundment #2 sludge as well as measurable levels of mercury and cadmium. The relationship of the concentration detected in the impoundments is depicted in figure 3.1 (prior renewal application) and is consistent with the sequence of past treatment operations. For a complete description of sample strategy and results refer to Appendix M of prior renewal application.

3.2 Waste Pile

During 1985, measurements were taken of waste pile depth as well as taking representative samples to characterize the waste. The composite sample was analyzed for reactivity, corrosivity, ignitability and EP toxicity. Appendix D of prior renewal application, contains a copy of the results of the analysis as well as analytical results of Oklahoma Department of Health (OSDH) samples. The depth of oil discoloration was measured at a depth of four feet. For detail description of sampling procedures refers to MBWP RCRA Closure Plan for the Surface Impoundments and Waste Piles (section 3.2.1, pages 11, 12 and 13 of the prior renewal application, .

Pursuant to US EPA's directive, additional waste information was obtained in 1987. The characterization results indicated measurement concentrations of

PCP and base neutral organics. The characterization results are consistent with past investigations, except that chromium was consistently present at elevated concentrations in the waste pile. In addition, measurable mercury and cadmium levels were detected in the waste pile material. For a complete description of sample strategy and results refer to Appendix M, prior renewal application.

4.0 Waste Analysis Plan (40 CFR.14 (b)(3))

The generation of compounds listed in 40 CFR Part 261 will only possibly occur during the groundwater monitoring portion of the post-closure impoundment and waste pile areas. The only movement of the listed compounds will occur in from the previously closed impoundment and waste pile areas and will be detected by the required monitoring of the ground water. The ground water parameters to be monitored will include the following compounds listed in 40 CFR Part 261: PCP. For additional information refers to the ground water monitoring section.

5.0 Security Procedures and Equipment (40 CFR 270.14(b)(4))

All monitor wells utilized in the monitoring of the ground water will be locked to prevent unauthorized entry. All the listed compounds have been treated and the areas have been capped with a clay barrier. A sand drain zone (six inches) and a topsoil zone (one to two feet) was constructed above a clay cap as depicted in Drawing Number 2, 3 and 5, of the prior renewal application. A telephone is available in the MBWP office, adjacent to the closure areas. A sign is at the entry to the facility which listed emergency telephone numbers to contact the owner, McCurtain County Health Department, and Oklahoma State Department of Environmental Quality as well as notification of the "Potentially Harmful Materials" and "Unauthorized Personnel Prohibited." The sign also listed hours of operations. Signs are also posted at the closed waste units. The site has adequate lighting during times of limited visibility.

Maintenance of security facilities will be in direct and immediate response to the findings of regular inspections. All deficiencies noted during inspections will be corrected within 15 business days of identification. All maintenance activities will be documented on the Remedial Action Report Form (Appendix N, table 3, prior renewal application).

6.0 General Inspection Schedule (40 CFR 270.14(b)(5))

The inspection will be conducted daily except for weekends and holidays. The inspection will be incorporated into Pollution Prevention Plan for the facility Appendix B and also refer to Appendix H, prior renewal application for a copy of the inspection form).

The site will be inspected semiannually to assess the condition of post-closure components. The date, time, inspection results, and maintenance activities will be logged and filed at the Facility.

6.1 Inspection Components and Schedule

The post-closure components are routinely inspected semiannually during the post-closure care period and include: security control facilities or systems, final cover of closed impoundments and waste pile, run-on/run-off control structures, surveyed benchmark, ground water monitoring wells. Ground water monitoring, inspection, and maintenance of monitoring equipment will be accomplished in accordance with the requirements set forth in Subpart F of 40 CFR Part 265.

6.2 Inspection Procedures

The procedures for the inspection of post-closure care components are the security signs, lighting, final cover and run-on/run-off control drainage areas for the impoundments and waste pile. The inspections will be conducted by the Facility personnel or subcontractors under authority of Mixon Brothers Wood Preserving, Inc. A schedule of the inspected items and a log for recording the inspection observations is provided in Appendix H of the prior renewal application.

6.2.1 Surveyed Benchmark

The benchmark will be maintained throughout the post-closure period. If semiannual inspections reveal that a benchmark is damaged or missing; repair or replacement will be required. A survey team will be used to relocate a missing benchmark, if required.

6.2.2 Final Cover and Run-on/Run-off Control

The HWM units will be inspected semiannually to observe the integrity of the final cover and run-on/run-off control drainage areas. If erosion of the drainage areas or final cover affects the integrity of the units, maintenance will be required.

The final covers will also be inspected semiannually to observe evidence of settling and subsidence. If repairs are required to maintain the integrity of the final cover, the repairs will be completed as direct by the Facility Contact.

6.2.3 Ground Water Monitoring System

The integrity and operation of the ground water monitoring wells will be inspected during ground water sampling events. The locking mechanism and the surface casing of the wells will be inspected to identify damage or deterioration. The well labeling, concrete seal and pad will be inspected for evidence of deterioration and tampering as well as the retention of water between the surface casing and well casing. The water depth and the well depth will be measured routinely during the inspections to verify the existence of any accumulation of fines within the well bore. Water produced from each well will be visually inspected for excessive sediment accumulation that might indicate poor performance of the sand filter or well screen.

Annually, the Facility will evaluate the ground water surface elevation data to confirm that the monitoring system continues to operate within the system design. If the data indicate that the designed location requirements are no longer within the permit limits, relocation of one or more wells may be required.

6.2.4 Security Signs and Lighting

Security signs at the HWM units and at the facility entrance as well as facility lighting will be routinely check, during the semiannual inspections for damaged signs or posts, erosion surrounding the sign post, and the facility's lighting. Repairs or maintenance will be made as required during the post-closure period.

6.3 Inspection Records

The records of all inspection and testing activities will be recorded and maintained with the SWPPP at the Facility. Required maintenance will be recorded and documented on a Remedial Action Report Form provided in Appendix N, Table 3 of the prior renewal application.

6.4 Post-Closure Maintenance

The maintenance activities will be performed as required during the post-closure care period as result of deficiencies noted during the inspections. All repair activities concerning the closed HWM units will be kept with the SWPPP repair activities.

A cover crop has been established on the impoundment cover and waste pile cover. The cover will be tested, routinely, to insure adequate growth. The crop will be fertilized and irrigated as necessary to maintain adequate cover. The grass will be mowed routinely and deep-rooted weeds or vegetation will be removed as necessary. As previously stated, erosion will be controlled by vegetative cover and inspected at least semiannually throughout the post-closure period to ensure that erosion does not become problematic. Special attention to the cover, after periods of severe storms when erosion may be anticipated, will insure its integrity. Eroded areas will be filled, repaired, and revegetated.

7.0 Preparedness and Prevention Requirements (40 CFR 270.14(b)(6))

The HWM units are closed and are capped. The Plant Fire Marshall is Bob Mixon. At the first signs of a fire, the supervisor is notified and the fire is put out. Fire suppression equipment is located in the office, plant, and the peeler, A telephone is available at the office to notify emergency response contacts (e.g., Idabel Fire Department, Ambulance Service, and Police Department as well as appropriate State and Federal agencies). A preparedness and prevention plan (including the requirement of 40 CFR 264 Subpart D) has already been implemented at the facility and is part of the facility's Chemical Storage Contingency Plan, dated September 29, 2014 and the Oil Spill Prevention Control and Countermeasure Plan, dated September 29, 2014 (Appendix B).

8.0 Contingency Plan (40 CFR 270.14(b)(7))

The Chemical Storage Contingency Plan, dated September 29, 2014, which includes any hazardous materials and the Oil Spill Prevention Control and Countermeasure Plan, dated September 29, 2014 is already implemented at the facility. The contingency plans are contained in the facility's Stormwater Pollution Prevention Plan dated April 1, 1993 (Appendix L of the prior renewal application). The ground water monitoring system will detect any release of the listed hazardous constituents from the closed HWM units.

9.0 Procedures, Structures, or Equipment Description (40 CFR 270.14(b)(8))

The facility has an office with telephones as well as all required records, at the entrance of the facility. A sign is posted at the facility's entrance which listed emergency telephone numbers to contact the owner, McCurtain County Health Department, and Oklahoma Department of Environmental Quality as well as notification of the "Potentially Harmful Materials" and "Unauthorized Personnel Prohibited." The sign also listed hours of operations. Lighting is provided at the facility during times of limited visibility.

9.1 Unloading Operations

The facility does not unload hazardous waste at the closed waste units.

9.2 Prevention of Hazardous Waste Handling Area Runoff

All the listed compounds have been treated and the areas have been capped with a clay barrier. A sand drain zone (six inches) and a topsoil zone (one to two feet) was constructed above the clay cap as depicted in Drawing Number 2, 3 and 5 (of the prior renewal application). As specified in the Storm Water Pollution Prevention Plan (SWPPP) (Appendix L of the prior renewal application) all hazardous materials and listed hazardous compounds will not be exposed to runoff. Storm water runoff is routinely sampled to identify potential areas of contamination(Attachment 3 List of Laboratory Reports for Outfall 001 (2013-2022) Appendix . Routine inspection of the HWM units will insure that the caps will remain intact.

9.3 Prevention of Water Supply Contamination

Closure of the HWM units, including the capping, has insured that surface waters will not be contaminated from these units. Ground water monitoring of these units will detect leachate before the contamination can threaten Public Water Supplies (refer to Ground Water Section for further details concerning the monitoring). The nearest public water supplies are: City of Garvin, eight miles to the West Northwest, 2 water wells, with a depth of 200 and 400 feet; City of Idabel three miles to the North, Little River; McCurtain County Rural Water District #1, four miles to the North Northwest, Little River; and City of Haworth, eleven miles to the Southeast, water well 63 feet.

9.4 Equipment Failure and Power Outages

If the equipment associated with the HWM fail to function properly or a power outrage occurred, a release of the list hazardous constituents would not occur. Equipment such as lighting and submergible pumps could be replaced or repaired without affecting the closed HWM units. If the in-line telephone service is disrupted, a cellular phone will be utilized, temporary; until the in line telephone service is restored.

9.5 Personnel Safety

Since the closed HWM units are capped with several feet thick of different types of sediments, exposure to any of the listed constituent will only possibly occur during the ground water monitoring phase of the post-closure period. The personnel will have appropriate safety training to minimize exposure to any hazards associated with the monitoring of the ground water including the exposure to the listed compounds. Some the protective covering will include the following: disposal latex and rubber gloves, disposal rubber covers for shoes or boots, tyvek coveralls, and safety glasses.

9.6 Prevention of Atmosphere Releases

The closed HWM units are covered with several feet of sediments which will prevent releases to the atmosphere. Routine inspections (Appendix N, Table 2 of the prior renewal application), during the post-closure period, will insure that the integrity of these units is maintained. All wastewater from the ground water monitoring activities will be treated as containing the listed compounds associated with the closed HWM units until analysis indicates otherwise. During temporary storage, the wastewater will be placed in a sealed container to prevent atmosphere releases.

10.0 Precautions to Prevent Accidental Ignition or Reaction of Ignitable, Reactive, or Incompatible Wastes (40 CFR 270.14(b)(9))

The closed HWM units were tested before closure for listed hazardous compounds including analysis for reactively, corrosivity, and ignitability (see Appendix D and Section 3.0, Waste Characterization of the prior renewal application). During the post-closure no new compounds will be added to these closed units. If the closed waste pile unit downgradient monitor well detects leachate, then the upgradient monitor well will be test for sulfide. Testing of the waste pile compounds before closure indicated a reaction with sulfide at 12.8 parts per million (ppm).

11.0 Traffic Patterns (40 CFR 270.14(b)(10))

The only traffic surrounding the closed HWM units are two front end loaders and one forklift which moved logs and other wood products to different areas of the facility. Trucks are unloading logs and finished wood products are loaded at the entrance to the facility. The road surface was constructed with mostly clay and gravel with a small amount of concrete surfacing at the entrance to the scale.

12.0 Facility Location Information (40 CFR 270.14(b)(11))

12.1 Seismic Standard Applicability

The facility is located in McCurtain County, Oklahoma and is not located in an area listed in appendix VI of part 264.

12.2 Floodplain Information

The facility is located in the city limits of Idabel and the location is on the Federal Insurance Administration's (FIA'S) flood map. The facility is not located in the 100-year flood boundary area which delineated in the FIA Flood Boundary and Floodway Map, City of Idabel, Oklahoma, McCurtain County, Panel 1 and 3 of 4, Community-Panel Number 400108 0003 B and is attached in Appendix O of the prior renewal application.

13.0 Training (40 CFR 270.14(b)(12))

The closed HWM units are covered with several feet of sediments which will prevent releases to the atmosphere and exposure to personnel. Routine inspections, during the post-closure period, will insure that the integrity of these units are maintained. All wastewater from the ground water monitoring activities will be treated as containing the listed compounds associated with the closed HWM units until analysis indicates otherwise. During temporary storage, the wastewater will be placed in a sealed container to prevent atmosphere releases and exposure to personnel.

The facility inspector of the closed HWM units will complete an on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with applicable requirements, including 40 CFR 264.16 requirements. The training program will be directed by a person trained in hazardous waste management procedures which will include instructions that teach the facility personnel hazardous waste management procedures relevant to their position. The training and emergency procedures and records are contained in the facility's contingency plans of the SWPPP and are attached in Appendix L of the prior renewal application. Employees Safety and Pollution Prevention Refresher training are conducted during May and November (Attachment 5).

14.0 Closure Plan (40 CFR 270.14(b)(13))

The RCRA Closure Plan for Surface Impoundments and Waste Pile, Revision II for Mixon Brothers Wood Preserving, Inc. is attached in Appendix P of the prior renewal application. All numbering of the tables, figures, drawings, and appendices refers to in the above plan (Appendix P) are the same as the previous Post-Closure application and therefore not include Appendix P.

15.0 Post-Closure Notices (40 CFR 270.14(b)(14))

The post-closure notices as required by 40 CFR 264.119 are attached in Appendix Q of the prior renewal application. The notices included are the notices to Mr. Brad Roberts, Chairperson, Idabel Planning & Zoning Authority, dated March 23, 1994 and October 11, 1994; the Plat of Survey dated December 23, 1993 and September 9, 1994; and the Certification of Placement in Deed Records dated May 3, 1994 and November 18, 1994 on both HWM units.

16.0 Closure Estimate (40 CFR 270.14(b)(15))

The closure estimate is provided in Table 6-1 of the prior renewal application. The closure of the HWM units was performed as noted in the closure plan.

17.0 Post-Closure Estimate (40 CFR 270.14(b)(16))

The post-closure estimates are provided in Appendix N, table 4 of the prior renewal application. The requirement to demonstrate financial assurance is provided in 40 CFR 264.145 and similar mechanisms by the State. MBWP has established an Irrevocable Standby Letter of Credit for Post-Closure Costs. If instructed by ODEQ, the McCurtain County National Bank shall deposit the amount of the draft directly into the Standby Trust Fund of MBWP (Attachment 1 of the prior renewal application). The wording of the letter of credit is identical to the wording specified in 40 CFR 264.151 (d). The above line of credit was added yearly for total amount of $76,736 (Attachment 2 of the prior renewal application). According to 1996 Consent Order, "Mixon Brothers ...$84,000.00 figure. After that time, Mixon Brothers' on-going post-closure expenses may be paid out of the Trust fund or by drawing on the Letter of Credit."

The Post-Closure Estimated changed when the current Post-Closure Permit became effective in 2013. The permit requires annual sampling of the Compliance Well 2 (CW), PZ, 5, 9 and biennal sampling for PZ-2 with the analyses of the collected samples, and the annual measurement for the water elevation of Monitor Wells PZ-2, PZ-3, PZ-4, PZ-5, PZ-6, PZ-7, PZ-8, PZ-9, PZ-10, CW-1, CW-2, and CW-2 (refer to Attachment One of the current Post-Closure Permit). Information concerning the location and construction of these Compliance Wells are provided in Appendix C.

18.0 Topographic Map (40 CFR 270.14(b)(19))

The topographic maps and other maps indicating the 100-year Floodplain, structures, monitor wells, locations of HWM units, surveyed property lines, are provided in Figures 2.2, 2.2(a), 2.3, 4.1, 5.1, 5.13,5.13a, 18.1, 18.2 Appendix M Figure 1, Appendix O, Appendix U Figures 2 and 3, Appendix V Figures 1 and 2, Appendix W Figure 1, and Appendix X of the prior renewal application. Also, Figures 2.2 and 2.3 are topographic maps, while Figure 19.1 and Appendix G Maps of Groundwater Potentiometric Surface and Flow Direction (2013-2022) depict the locations of HWM.

19.0 Protection of Ground Water (40 CFR 270.14(c))

19.1 Ground water Monitoring Data (40 CFR 270.14(c)(1))

The ground water monitoring data is provided in Table 2 and Appendix D Project Logs Monitor Wells Sampling (2013-2022) and E are Laboratory Analytical Results from Monitor Wells (2013 to 2022).

. Additional ground water monitoring data obtained during post-closure, will be reported as required 40 CFR 264.97 to 40 CFR 264.100. From 2013 to 2022, additional data was collected and are listed in Table 2.

The monitoring of Compliance Well (CW) Compliance Well #2, are required in accordance with Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC (effective July 16, 1998 and continued to 2022). The CWs were constructed during July 1999 (Appendix C) and the sampling and analysis initiated during February 2000 and continued semi-annually (February and August) and from 2013 to 2022 (August) annually with no detectable concentration of naphthalene and pentachlorophenol (PCP) (Table 2 and Appenices C, D, and E provided additional information).

The Annual Compliance and PZ Wells water level sampling are also required in accordance with Oklahoma Department of Environmental Quality (ODEQ), Post-Closure Operations Permit Number 007336258PC (effective July 16, 1998) and continued with current permit and are measured during December and the information is provided in Table 19.1 and Appendix F and G.

19.2 Identification of the Uppermost Aquifer (40 CFR 270.14(c)(2))

The subsurface geology was characterized utilizing thirty-five (35) soil borings and thirteen (13) ground water observation wells. Most of the borings ranged in depth from 6 feet to 30 feet, with one (1) boring drilled to a depth of 150 feet (for more detail information refers to Appendix P, page 56 to 60 of the prior renewal application). The results of characterization indicated that the contact between the site soils (reddish-brown to gray clay) CL and the underlying bed rock surface (weathered limestone and shales) is the most permeable horizon which was observed during the drilling of soil borings, PZ and the compliance wells (see attached Appendix D, Geotechnical Laboratory Testing, Appendix E, Soil Boring, Appendix J, Monitor Well Completion Diagrams, figures 5.9, 5.10, and 5.11 and Appendix U of the prior renewal application Appendix C (Compliance Well Completion Diagrams).

The uppermost aquifer was identified beneath the facility starting at depths from 8 to 12 feet and 17 to 28, with depth to ground water measured in the observation wells varying from approximately ground level to eight (8) feet below ground level. The ground water found in the shallow geological units at the site occurs in the sandy and gravely clays between 8 to 12 and a deeper zone 17 to 28, at microfractures principally in the weathered bedrock zone. Based upon the rise in the ground water levels in a drilled well, the ground water in the weathered limestone and shale formations at the site are under confined conditions. The potentiometric surface is shown on the geologic cross-sections presented in Figures

5.10 and 5.11 of Appendix U. The potentiometric maps (Figure 5.13 and 5.13a and Appendix X of the prior renewal application are depicting the shallow ground water flowing to the east-north with average gradient of 0.01 to 0.017 feet/foot. The potentiometric maps of the most recent results indicated that the shallow ground water flow direction is being influenced in the surrounding areas of PZ - 4, PZ - 6, and PZ - 7 (Appendix X of the prior renewal application). Slug tests indicated that the average horizontal hydraulic conductivity for the shallow weathered bedrock is 2.6×10^{-5} cm/sec. The average ground water flow velocity in the uppermost ground water system is 5.14×10^{-6} cm/sec or 8.9×10^{-3} feet/day (3.27 feet/year). Refer to 5.5 Site Hydrogeology in Appendix P, pages 60-62, Table s 4.7, 5.2, and Figures 5.2, 5.3, 5.4, 5.5, 5.9, 5.10, 5.11, 5.12, 5.13, 5.13a, 5-14, 5-15, 5-16, and 5-17 for further information refer to the prior renewal application. MBWP is not located within an area designated as an actual or potential unconsolidated alluvial aquifer or terrace deposit aquifer or bedrock aquifer or recharge area, as shown on the maps described as "Sheet 1 - Unconsolidated Alluvium and Terrace Deposits" and "Sheet 2 - Bedrock Aquifers and Recharge Areas" of the "Maps Showing Principal Ground Water Resources and Recharge Areas in Oklahoma," compiled by Kenneth S. Johnson, Oklahoma Geological Survey (1983), or any successor map(s) compiled by the Oklahoma Geological Survey (OAC 252:205-11-2). Refer to Appendix O, Figures 5.2, 5.3, 5.4, 5.5, 5.9, 5.10, 5.11, 5.12, and 18.2 refer to the prior renewal application, for further information.

19.3 Topographic Map of the HWM Units (40 CFR 270.149(c)(3))

The topographic maps are provided in Figures 4.4, 4.8, 5.13, 5.13a, 5.1 and 18.1refer to the prior renewal application and Figures 2.2 and 2.3.

19.4 Ground Water Contamination (40 CFR 270.14 (c) (4))

PZ-1 was completed using 2" PVC, screw thread casing on 10-19-87 and is 29 feet deep with a 0.01" screened interval between 16 to 26 feet. PZ-1 top portion of the casing was split, possibly during the pre-closure activities. February 1992 records indicated contamination to PZ-1 from the surface. Roberts/Schornick & Associates, Inc. (RSA) responded to the release and removed all contaminates from PZ-1 and the surrounding surface. Fluids were recycled into the wood preserving process. In accordance with 40 CFR 265.93 (d)(7), the Oklahoma State Department of Health (OSDH) (August 13, 1992) approved RSA Groundwater Assessment Technical Workplan.

After approval from DEQ and Oklahoma Water Resources (OWRB), PZ-1 casing was filled with bentonite pellets to 10 feet and cement grout to 2 feet below the land surface and the remaining 2 feet to the land surface backfilled with compacted uncontaminated soil during February 15, 1995. Based on PZ-1 casing fractures, it is highly probable that the product is from the soil contamination depicted in Figures 4.6, 4.7, and 4.8. PZ-4, 6, and 7 receive contamination which occurred during the PZ-1's release and these wells are maintained to remove contaminated fluids. The contaminated fluids are recycled into the wood preserving process and monthly reports are submitted to DEQ listing the amount of fluids removed and recycled from these wells (Table 2 and 3)(Appendices D, E, and J. PZ-2, 8, 9, 10, CW-1, CW-2, and CW-3 analytical results indicate no contamination and the contaminants are being mitigated by the fluids removal from PZ-4, 5, 6, and 7 (Appendices F and G).

The amount of ground water removed from PZ-4, 5, 6, and 7 indicated that the shallow aquifers are unable to provide a minimum amount of water for any type of Beneficial Uses (Appendix P, pages 42 and 43 refer to the prior renewal application) Appendices D,F, G, and J . Hydrograph for PZ-4 show a gradual rise in water levels over an approximate 3 months time interval (Figure 5.17 refer to the prior renewal application). Removal of all water in the monitor wells is performed routinely. Since August 1998, the monitor well which derived the most amounts of water was PZ-6, 288 gallons with 24 removal days in December 2013. Between 2013-2022, PZ-6 yield and removed 276 gallons 12 times. The monitor well which derived the least amount of water was PZ-4 with average approximately 1.5 gallons with 12-14 removal days from 2013 to 2022, approximately 2.5 gallons with 12-14 removal days from 2013 to 2022(Table 3). The recent water level results' Appendices F, G, and J, indicated that the surrounding shallow ground water flow direction is being influenced toward the direction of these wells (Appendix G). Snce 2013 to 2022 approximately 2,500 to 3,000 gallons of water have been removed from PZ-4, 5, 6, and 7 (Table 3).

19.5 Ground Water Monitoring Program (40 CFR 270.14(c)(5))

The existing monitoring program consists of twelve (12) monitor wells with adequate depth, to allow the detection of contamination when hazardous waste or constituents have migrated from the HWM units to the shallowest aquifer. The area, east of the southern portion of the HWM surface impoundment unit has detect migration of a PCP plume in both the upper and lower portion of the shallowest aquifer by three monitor wells (PZ-4, 6, and 7) and occasionally PZ-5 samples contained PCP August 2016, September 2016, and August 2021.

The monitor well PZ-3 is located hydraulically upgradient of the two HWM units as demonstrated by Figures 5.13 and 5.13a refer to the prior renewal application. PZ-2 monitor well is located hydraulically downgradient and at the point of compliance for the waste pile HWM unit. PZ 2, PZ-8, PZ-9, PZ-10, CW-1, CW-2, and CW-3 monitor wells are located hydraulically downgradient and CW-1, CW-2, and CW-3 at the point of compliance for the surface impoundment HWM unit. The replacement for the plugged PZ-1 monitor well are PZ-6 and PZ-7, east of the southern portion of the HWM surface impoundment unit. PZ-6 was constructed to monitor the deeper portion of the shallow aquifer while PZ-7 was constructed to monitor the upper portion of the shallow aquifer.

The monitor well completion diagrams are provided in Appendix C and comply with the requirements listed 40 CFR 264.97 (refer to Appendix C for the completion details). The replacement wells for PZ-1 were constructed in a manner which conforms with the plugged well except the inside casings are stainless steel and the concrete surface pads will be three (3) feet squared. During the quarterly sampling events (July 1995) which was designed to establish an adequate data base to detect changes in the groundwater quality, concentration of PCP (54 part per billion (ppb)) was detected in PZ-7 which exceed the MCL of 1 ppb. Later sampling (August 1995) confirm the presence of PCP (3 ppb) in PZ-7(Table 19.2). As required by 40 CFR 265.93(d)(2), (3) three additional monitor wells (PZ-8, 9, and 10) were located downgradient of PZ-7 to determine the extent of the plume. Sampling of these wells has determined that the plume of the upper portion of the shallow aquifer is localized to the immediate area of PZ-7 (Table D and E). Monitor well, PZ-6, which was constructed to monitor the deeper portion of the shallow aquifer, detect PCP concentration (210 ppb) which also exceed the MCL of 1 ppb. Later sampling of PZ-6 (October 1995) confirm the presence of PCP (37,500 ppb) (Table 19.2.refer to the prior renewal application) Monitor Well, PZ-4, which was constructed to monitor the deeper portion of the shallowest aquifer, detect PCP concentration (390 ppb) and additional sampling of PZ-4 (January 1997) confirm the presence of PCP (1,280 ppb) (Table 19.2 refer to the prior renewal application). As required by 40 CFR 265.93(d)(2), BAEC completed CW-1, CW-2, and CW-3 for MBWP and determine the extent of the plume is localized to the immediate area of PZ-4, PZ-6, and PZ-7 occasionally. MBWP is currently dewatering PZ-4, PZ -5, PZ-6 and 7 to prevent the migration of PCP Plume.

The sampling and analysis procedures provide a consistent and a reliable indication of the ground water quality below the HWM units. The nine (9) monitor wells and later 12 twelve wells were sampled according to RCRA sampling protocol.

19.6 Compliance Monitoring Program (40 CFR 270.14(c)(7)

The Compliance Monitoring Program was established with the completion of the three CWs. The sampling and analysis procedures will provide a consistent and a reliable indication of the ground water quality, down gradient of the surface impoundment HWMU. The ground water from the CW-2 will be sampled according to 2013 Post-Closure sampling protocol. The ground water parameters to be monitored will include the following compounds listed in 40 CFR Part 261: PCP. The ground water will be sampled for the purpose of characterizing the chemical quality of the shallow ground water down gradient of the surface impoundments. Well depth measurements will also be taken before sampling in the ground water monitor wells. The well depth measurements provide information necessary to assess the condition of the well (i.e., if the wells are experiencing silt buildup), to provide ground water elevation, and to provide the necessary purge volumes during ground water sampling events. In addition, during each purging and sampling event, the sampling personnel will make an initial visual inspection of the top and bottom of the fluid column using a transparent bailer. The three installed monitor wells will be sampled and the collected samples will be submitted to the laboratory for analysis. Chain of custody will be maintained between the sampling and the analysis (refer to Appendix A and L for the Quality Assurance Plans).

All portions of sampling and test equipment which contacts the interior of the well casing or the probe will be thoroughly cleaned before use. This includes water level indicators, bailers, submersible pumps, probes, tubing, and other equipment, or portions thereof, which are to be immersed. The procedure for initial equipment cleaning is as follows:

* Clean with tap water and phosphate-free laboratory grade detergent, brush if necessary
* Rinse thoroughly with tap water
* Rinse thoroughly with deionized water
* Equipment cleaned prior to field use will be re-cleaned after transfer to the sampling site unless carefully wrapped for transport

Nondedicated testing equipment (i.e., water level indicator, bailer, etc.) which contact the interior well casing will be field cleaned between each well by washing thoroughly in phosphate-free detergent and rinsing with deionized water. Any necessary deviation from these procedures will be completely documented in the permanent record of the sampling episode and the field sheet.

Upon arrival at each monitor well, the sampling personnel will inspect the well's condition and note any evidence of tampering or damage. Each well will be unlocked and an electronic water level indicator will be used to measure the depth to water and well depth. The water level data will be referenced to a surveyed mark in the top of the inner casing. The data will be used to construct potentiometric surface contour maps and to calculate the static volume of water within the casing that will be removed prior to ground water sampling. Prior to purging each monitor well, the top six (6) inches of ground water surface and the bottom six (6) inches of base of the water column will be inspected for immiscible phase organics and odors.

The water standing in a well, prior to sampling, may not be representative of the in-situ ground water quality. Therefore, the standing water in the well and filter pack must be removed so that formation water can replace the stagnant water. At a minimum, three (3) casing volumes (including filter pack pore water) must be removed before sampling can begin. The depth-to-water, well depth, and filter pack interval (assume a porosity of 30%) can be used to calculate the volume of ground water to be removed from each well. The following equations will be used to calculate the volume of ground water to withdraw:

(1) $v_c = \pi r_c^2 h_c(7.48)(3)$

where:

v_c = volume of water in casing storage, gallons
r_c = radius of casing, feet
h_c = length of water column in casing, feet
7.48 = conversion factor from cubic feet to gallon
3 = 3 casing volumes, and

(2) $v_s = a\, r_s^2\, h_s - \pi r_c^2\, h_{es}(7.48)(3)(0.30)$

v_s = volume of water in sand pack interval, gallons
r_s = radius of drilled borehole, feet

h_s = length of sand pack interval, feet
r_c = radius of casing, feet
h_{es} = length of casing/screen in sand pack interval, feet
0.30 = estimated porosity of sand pack

Adding the three (3) casing ground water volumes, to the three (3) sands pore water volumes, equal the amount of water that must be purged from the well prior to sampling. Purging will be accomplished by bailing with pre-cleaned, dedicated, Teflon bailers. All bailers will be fitted with clean, dedicated, monofilament line. During purging the pH, specific conductance, and temperature of the purged ground water will be taken and recorded to insure that the water quality in the well has stabilized. If significant variations in any of these field measurements are observed, additional purging will be required. In addition, the water's physical characteristics (i.e., odor, turbidity, and color) will be observed and noted. Evacuated water will be containerized in five (5) gallon plastic buckets, which will be marked as to contents and source.

In those wells which bail dry, purging will cease and the well will be allowed a reasonable time to recover. After recovery, the well will be evacuated a second time. This will be repeated until the required volume is recovered. If a well is incapable of yielding three (3) casing volumes in a reasonable time, then the well will be evacuated to dryness and allowed to recover until it can provide a representative sample .within 48 hours. Several wells especially PZ 8, 9, 10 are very slow to recovered due to the removal of groundwater adjacent to these wells

Ground water samples from the monitor wells will be collected with pre-cleaned, dedicated, bailers, lowered into the well on clean, dedicated, monofilament line. The first bailer will be used to rinse the bailer and poured to waste if the well recharge enough to yield for sampling of groundwater. Each ground water sample will be carefully poured directly into the appropriate sample bottles. The first aliquot will be retained for field determination of pH, temperature, and specific conductance (units to be reported in umhos/cm). Subsequent aliquots will be used to fill the sample bottles utilizing the following collection order:

* Pentachlorophenol (PCP)

All sample bottles will be laboratory-cleaned and preserved by the testing analytical laboratory. A final aliquot will be retained for a second determination of field pH, temperature, and specific conductance if there is enough groundwater for sampling. The results of these duplicate field measurements (i.e., first and last aliquots) will be used as a check to assure ground water stability during sample collection. All samples will be packed in ice immediately after being collected, and placed under chain-of-custody control. Samples will be submitted to Environmental Testing, Inc. located in Oklahoma City, Oklahoma.

The first and last aliquot collected during ground water sampling events, will be retained for field determination of ph, temperature, and specific conductance. Certain chemical and physical parameters in water can change significantly within a short time of sample acquisition. These parameters cannot be accurately measured in a laboratory more than a few hours after collection, therefore, parameters will be measured on-site with portable equipment. These parameters are:

* pH
* Specific Conductance
* Temperature

These parameters will be measured in unfiltered, unpreserved, cleaned glass containers separate from those intended for laboratory analysis. The tested samples will be disposed in the same manner as other purged fluid. All field measurements will be recorded on the sampling sheet. Water samples will be properly prepared for transportation to the laboratory by refrigeration and chemical preservation (for certain water samples). The laboratory will provide all sample containers, and any necessary chemical preservatives.

The groundwater samples from Compliance Wells (CW) 2 will be analyzed for Pentachlorophenol (PCP) in accordance with Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846 (Method Number 8270).

Analysis data will be evaluated utilizing A Ground Water Information Tracking System with Statistical Analysis Capability (GRITS/STAT v4.2) (EPA/625/11-91/002). The normality tests used are: the Skewness Coefficient, the Shapiro-Wilk Test (for sample sets less than 50), and the Shapiro-Francia Test (for sample sets more than or equal to 50). The Variance will be evaluated by either Levene's Test or the utilization of Box plots. The combined Shewart-CUSUM Chart will monitor constituent levels for trends or sudden changes. The ANOVA method will accommodate both Parametric and Non parametric analysis. The

Intervals including the Tolerance Intervals on Compliance Limits and Confidence Interval will be based on the analytical results. In addition, the background well will be evaluated with compliance well utilizing the T-Test and Wilcoxin Rank-Sum Test.

19.7 Corrective Action Program (40 CFR 270.14(c)(8)

After PCP was detected in PZ-4, 5, 6, and 7, MBWP initiated dewatering of these wells to prevent the migration of PCP Plume. Since later testing of the surrounding groundwater with CW 2, PZ-8, 9, and 10 indicated the extent of the plume is localized to the immediate area of PZ-4, PZ-6, and PZ-7. Monitor Wells PZ-2, PZ-3, PZ-4, PZ-5, PZ-6, PZ-7, PZ-8, PZ-9, PZ-10, CW-1, CW-2, and CW-2 will be measured annually for water elevation. The water elevation of the wells will be utilized to determine the groundwater flow rate and direction in the uppermost aquifer and to verify the effectiveness of mitigating the PCP plume.

In April 2000, MBWP sampled PZ-5 and PZ-8, annually and analysis indicated no detectable concentrations of Naphthalene and PCP. Analytical results of samples collected from PZ 4, 6, and 7 indicated an initial decrease in the PCP concentrations (Table 19.7 refer to the prior renewal application). During February and August 2005, sampling was conducted of 9 monitor wells and two borings and indicated PCP plume is being contained by the dewatering of these wells (Appendix V and W refer to the prior renewal application).

20.0 Drip Pad (40 CFR 270.26)

20.1 List of Hazardous Wastes (40 CFR 270.26 (a)

MBWP installed a new creosote drip pad in 1992 and continued to be utilized during the creosote wood preserving process (Appendix R refer to the prior renewal application).

20.2 Plan and Engineering Report (40 CFR 270.26 9 (c)(1) - (16)

MBWP Assessment of the Creosote Plant including the Design and Installation of the New Drip Pad dated July 31, 1992, Appendix R refer to the prior renewal application contains the report which meets the requirement of 40 CFR

264.573 and includes the following: design characteristics, liner system, leakage detection system, including detection of failure or fluid accumulation, maintenance practices, collection system, control of run-on, control of run-off, removal intervals of drippage/materials from the collection system and a statement demonstrating such intervals are sufficient to prevent overflow, procedures and documentation of cleaning the drip pad once every 7 days, Operating practices and procedures to ensure the tracking of HW and the minimization of waste off the drip pad, procedures to ensure that treated woods are held on the drip pad until the cessation of drippage, including record keeping practices, provisions to ensure the collection and holding units are emptied or managed ASAP after storms, description of the drip pad inspection, and the certification by a P.E. that the drip pad design meets 264.573(a) through (f). In addition, an annual evaluation of the drip pad is conducted by an independent Oklahoma Registered Professional Engineer (Attachment1). Creosote has not been utilized to preserve wood post instead Dual (Cellutreat+QNAP) product is utilized as a wood preserver.

Table 2. Summary of Analytical Results from Monitor Wells (2013 to 2022)

I.D. #	Site Location		Date	Sample Type	PH SU	Temperature ^{0}C	Specific Conductance µS/cm	Pentachlorophenol ppb	Naphthalene ppb
1	PZ - 2	*	12-Aug-13	water	7.24	26.2	3,150	< 1	< 2
2	PZ - 5	*	12-Aug-13	water	7.03	24.1	4,790	< 1	< 2
3	PZ - 9	*	12-Aug-13	water	6.93	27.9	3,870	< 1	< 2
4	CW - 2	*	12-Aug-13	water	6.96	23.2	5,640	< 1	< 2
5	Field Blank	*	13-Aug-13	water	7.68	34.4	93.7	< 1	< 2
6	Trip Blank	*	12-Aug-13	water	7.66	32.2	44.3	< 1	< 2
7	PZ-2	*	1-Aug-14	water	7.25	22.1	3,730	< 1	< 1.53
8	PZ-5	*	1-Aug-14	water	6.71	20.4	5,700	< 1	< 1.46
9	PZ-9	*	1-Aug-14	water	6.78	25.7	4,090	< 1	< 1.48
10	CW-2	*	1-Aug-14	water	6.93	22.7	5,740	< 1	< 1.69
11	Field Blank	*	1-Aug-14	water	8.59	22.1	15.81	< 1	< 1.43
12	Trip Blank	*	1-Aug-14	water	8.72	21.6	3.99	< 1	< 1.43
13	PZ-2	*	1-Aug-15	water	7.08	25.9	3,690	< 1	< 2
14	PZ-5	*	1-Aug-15	water	6.59	22.8	5,710	< 1.28	< 0.352
15	PZ-9	*	1-Aug-15	water	6.84	30.1	3,770	< 1.32	< 0.363
16	CW-2	*	1-Aug-15	water	6.69	23.4	5,790	< 1.19	< 0.327
17	Field Blank	*	1-Aug-15	water	7.57	32.1	9.93	< 1.19	< 0.327
18	Trip Blank	*	1-Aug-15	water	8.40	35.1	10.59	< 1.19	< 0.327
19	PZ-2	*	31-Aug-16	water	7.61	27.6	3,320	< 1	< 2
20	PZ-5	*	31-Aug-16	water	6.89	23.2	3,800	33.2	< 2
21	PZ-9	*	31-Aug-16	water	6.79	26.1	3,490	< 1	< 2
22	CW-2	*	31-Aug-16	water	6.81	25.8	4,980	< 1	< 2
23	Field Blank	*	31-Aug-16	water	8.24	11.3	81.9	< 1	< 2
24	Trip Blank	*	31-Aug-16	water	7.87	43.2	3.63	< 1	< 2
25	PZ-5	*	28-Sep-16	water	6.96	20.2	1,569	95.0	
26	Field Blank	*	28-Sep-16	water	8.03	20.1	12.52	< 1	

Table 2. Summary of Analytical Results from Monitor Wells (2013 to 2022)

I.D. #	Site Location		Date	Sample Type	PH SU	Temperature °C	Specific Conductance µS/cm	Pentachlorophenol ppb	Naphthalene ppb
27	PZ-2	*	28-Aug-17	water	6.58	23.8	3,187	< 1	< 2
28	PZ-9	*	28-Aug-17	water	dry			Insufficient water for analyses	
29	CW-2	*	28-Aug-17	water	6.58	23.8	4,960	< 1	< 2
30	Field Blank	*	28-Aug-17	water	8.45	27.9	15.8	< 1	< 2
31	Trip Blank	*	28-Aug-17	water	7.45	24.6	5.06	< 1	< 2
32	PZ-2	*	29-Aug-18	water	7.42 7.43	26.2 26.3	3,630 3,250	< 1	< 2
33	PZ-9	*	29-Aug-18	water	6.81	24.3	3,700	Insufficient water for analyses	
34	CW-2	*	29-Aug-18	water	6.68 6.64	25.1 24.1	5,090 5,030	< 1	< 2
35	Field Blank	*	29-Aug-18	water	8.45	27.9	15.8	< 1	< 2
36	Trip Blank	*	29-Aug-18	water	7.45	24.6	5.06	< 1	< 2
37	PZ-5	*	28-Aug-19	water	6.69 6.82	26.7 26.4	3,350 3,510	< 1	< 2
38	PZ-9	*	28-Aug-19	water	6.81 6.93	26.7 25.9	3,630 3,780	Insufficient water for analyses	
39	CW-2	*	28-Aug-19	water	6.91 7.24	24.7 23.3	5,760 5,940	< 1	< 2
40	Field Blank	*	28-Aug-19	water	8.85	35.3	7.79	< 1	< 2
41	Trip Blank	*	28-Aug-19	water	9.57	33.5	12.88	< 1	< 2
42	PZ-2	*	26-Aug-20	water	6.92 7.09	21.2 20.5	3,120 2,910	< 1	< 2
42	PZ-5	*	26-Aug-20	water	6.80 6.71	21.5 21.7	3,320 3,870	< 1	< 2
43	PZ-9	*	26-Aug-20	water	7.31 7.21	21.8 21.2	1,857 1,872	Insufficient water for analyses	
44	CW-2	*	26-Aug-20	water	6.40 6.42	21.1 20.4	4,930 5,100	< 1	< 2

Table 2. Summary of Analytical Results from Monitor Wells (2013 to 2022)

I.D. #	Site Location		Date	Sample Type	PH SU	Temperature ^{0}C	Specific Conductance µS/cm	Pentachlorophenol ppb	Naphthalene ppb
45	Field Blank	*	26-Aug-20	water	9.04	26.4	4.89	< 1	< 2
46	Trip Blank	*	26-Aug-20	water	9.08	25.2	10.64	< 1	< 2
47	PZ-5	*	18-Aug-21	water	7.25 7.21	25.2 24.1	1,628 1,721	78.8 & 107	< 2
48	PZ-9	*	18-Aug-21	water	6.95 7.01	25.2 25.1	3,750 3,600	Insufficient water for analyses	
49	CW-2	*	18-Aug-21	water	6.73 6.74	25.2 21.3	5,290 5,490	< 1	< 2
50	Field Blank	*	18-Aug-21	water	8.58	28.6	10.39	< 1	< 2
51	Trip Blank	*	18-Aug-21	water	8.62	26.6	9.90	< 1	< 2
52	PZ-2	*	15-Aug-22	water	7.36 7.43	37.0 37.9	1,899 1,428	< 1	< 2
53	PZ-5	*	15-Aug-22	water	7.08 7.01	25.6 25.2	2,550 2,584	< 1	< 2
54	PZ-9	*	29-Aug-18	water	6.81	25.1	3,710	Insufficient water for analyses	
55	CW-2	*	15-Aug-22	water	6.80 6.72	27.3 23.8	3,040 5,110	< 1	< 2
56	Field Blank	*	15-Aug-22	water	6.25	36.2	7.04	< 1	< 2
57	Trip Blank	*	15-Aug-22	water	6.05	38.3	14.72	< 1	< 2

* : Environmental Testing, Inc.

Table 3. Monthly Reports from January 2013 thru December 2022

Date	PZ-4		PZ-6		PZ-7		PZ-5	
	Gallons	Days	Gallons	Days	Gallons	Days	Gallons	Days
January-2013	13	13	252	21	33	13		
February-2013	13	13	252	21	7	13		
March-2013	12	12	240	20	16	12		
April-2013	13	13	264	22	33	13		
May-2013	14	14	288	24	35	14		
June-2013	13	13	240	20	30	12		
July-2013	12	12	240	20	30	12		
Subtotal January 2013-July 2013	90	90	1776	148	184	89		
Average Gallons/Day January 2013- July 2013	1.00		12.00		2.07			
August-2013	13	13	264	22	33	13		
September-2013	12	12	252	21	30	12		
October-2013	13	13	276	23	33	13		
November-2013	12	12	228	19	30	12		
December-2013	14	14	288	24	35	14		
January-2014	12	12	252	21	30	12		
February-2014	12	12	252	21	30	12		
March-2014	13	13	252	21	33	13		
April-2014	13	13	276	23	33	13		
May-2014	12	12	252	21	30	12		
June-2014	13	13	240	20	33	12		
July-2014	12	12	264	22	30	12		
Subtotal August 2013-July 2014	151	151	3096	258	380	150		
Average Gallons/Day August 2013- July 2014	1.00		12.00		2.53			
August-2014	12	12	240	20	30	12		
September-2014	13	13	264	22	33	13		
October-2014	14	14	276	23	35	14		
November-2014	11	11	216	18	28	11		
December-2014	13	13	247	21	33	13		
January-2015	11	11	228	19	28	11		
February-2015	12	12	240	20	30	12		
March-2015	13	13	259	22	33	13		
April-2015	13	13	264	22	33	13		
May-2015	12	12	240	20	30	12		
June-2015	14	14	276	23	35	14		
July-2015	12	12	252	21	30	12		
Subtotal August 2014-July 2015	150	150	3002	251	378	150		
Average Gallons/Day August 2014- July 2015	1.00		11.96		2.52			
August-2015	13	13	252	21	33	13		
September-2015	12	12	252	21	30	12		

Table 3. Monthly Reports from January 2013 thru December 2022

Date	PZ-4		PZ-6		PZ-7		PZ-5	
	Gallons	Days	Gallons	Days	Gallons	Days	Gallons	Days
October-2015	12	12	252	21	30	12		
November-2015	13	13	264	22	33	13		
December-2015	12	12	242	21	25	10		
January-2016	12	12	240	20	30	12		
February-2016	12	12	240	20	30	12		
March-2016	14	14	276	23	35	14		
April-2016	13	13	252	21	33	13		
May-2016	12	12	228	19	33	13		
June-2016	13	13	252	21	33	13		
July-2016	12	12	228	19	30	12		
Subtotal August 2015-July 2016	150	150	2978	249	375	149		
Average Gallons/Day August 2015- July 2016	1.00		11.96		2.52			
August-2016	14	14	276	23	35	14		
September-2016	12	12	240	20	30	20		
October-2016	13	13	252	21	33	12	30	12
November-2016	13	13	264	22	20	13	51	13
December-2016	12	12	240	20	12	12	36	9
January-2017	12	12	252	21	30	12	36	9
February-2017	12	12	240	20	30	12	32	8
March-2017	13	13	264	22	33	13	36	9
May-2017	13	13	264	22	33	13	36	9
June-2017	13	13	252	21	33	13	36	9
July-2017	12	12	228	19	30	12	28	7
Subtotal August 2016-July 2017	139	139	2772	231	319	146	321	85
Average Gallons/Day August 2016- July 2017	1.00		12.00		2.18		3.78	
August-2017	11	11	264	22	30	12	32	8
September-2017	11	11	240	20	30	12	36	9
October-2017	12	12	264	22	32	13	36	9
November-2017	12	12	240	20	33	13	28	7
December-2017	10	10	192	16	25	10	32	8
January-2018	13	13	252	21	30	12	32	8
February-2018	12	12	240	20	30	12	32	12
March-2018	13	13	264	22	33	13	36	9
April-2018	12	12	276	23	35	14	32	8
May-2018	12	12	264	22	30	12	36	9
June-2018	13	13	252	21	33	13	36	9
July-2018	13	13	264	22	33	13	32	8
Subtotal August 2017-July 2018	144	144	3012	251	374	149	400	104
Average Gallons/Day August 2017- July 2018	1.00		12.00		2.51		3.85	

Table 3. Monthly Reports from January 2013 thru December 2022

Date	PZ-4		PZ-6		PZ-7		PZ-5	
	Gallons	Days	Gallons	Days	Gallons	Days	Gallons	Days
August-2018	14	14	276	23	35	14	36	9
September-2018	12	12	240	20	30	12	32	8
October-2018	14	14	276	23	35	14	36	9
November-2018	12	12	240	20	30	12	32	8
December-2018	11	11	216	18	28	11	28	7
January-2019	12	12	264	22	30	12	32	8
February-2019	12	12	252	21	30	12	32	8
March-2019	13	13	252	21	32	13	36	9
April-2019	12	12	264	22	33	13	36	9
May-2019	13	13	264	22	33	13	32	8
June-2019	11	11	228	19	28	11	36	9
July-2019	13	13	252	21	32	13	32	8
Subtotal August 2018-July 2019	149	149	3024	252	376	150	400	100
Average Gallons/Day August 2018- July 2019	1.00		12.00		2.51		4.00	
August-2019	13	13	264	22	32	13	28	7
September-2019	13	13	235	20	30	12	36	9
October-2019	13	13	276	23	32	13	36	9
November-2019	12	12	228	19	30	12	32	8
December-2019	11	11	223	19	28	11	32	8
January-2020	12	12	240	20	30	12	32	8
February-2020	12	12	240	20	30	12	32	8
March-2020	12	12	240	20	30	12	36	9
April-2020	12	12	264	22	30	12	32	8
May-2020	13	13	252	21	32	13	32	8
June-2020	13	13	264	22	32	13	36	9
July-2020	14	14	276	23	35	14	32	8
Subtotal August 2019-July 2020	150	150	3002	251	371	149	396	99
Average Gallons/Day August 2019- July 2020	1.00		11.96		2.49		4.00	
August-2020	12	12	240	20	30	12	32	8
September-2020	12	12	252	21	30	12	36	9
October-2020	13	13	264	22	33	13	36	9
November-2020	12	12	228	19	30	12	28	7
December-2020	10	10	204	17	30	12	32	8
January-2021	12	12	240	20	30	12	32	8
February-2021	20	8	65	13	20	8	20	5
March-2021	28	11	252	21	28	11	32	8
April-2021	33	13	264	22	33	13	36	9
May-2021	30	12	240	20	30	12	32	8
June-2021	32	13	276	23	32	13	36	9

Table 3. Monthly Reports from January 2013 thru December 2022

Date	PZ-4		PZ-6		PZ-7		PZ-5	
	Gallons	Days	Gallons	Days	Gallons	Days	Gallons	Days
July-2021	33	13	264	22	33	13	32	13
Subtotal August 2020-July 2021	247	141	2789	240	359	143	384	101
Average Gallons/Day August 2020- July 2021	1.75		11.62		2.51		3.80	
August-2021	33	13	264	22	33	13	36	9
September-2021	32	13	276	23	32	13	32	8
October-2021	32	13	252	21	32	13	36	9
November-2021	28	11	216	18	28	11	32	8
December-2021	30	12	228	19	30	12	28	7
January-2022	30	12	252	21	30	12	32	8
February-2022	30	12	216	20	30	12	32	8
March-2022	13	13	252	23	32	13	36	9
April-2022	13	13	222	21	32	13	36	9
May-2022	12	12	216	20	30	12	32	8
June-2022	13	13	240	22	32	13	32	8
July-2022	13	13	240	22	32	13	32	8
Subtotal August 2021-July 2022	279	150	2874	252	373	150	396	99
Average Gallons/Day August 2021- July 2022	1.86		11.40		2.49		4.00	
August-2022	14	14	252	23	35	14	36	9
September-2022	11	11	204	19	28	11	32	8
October-2022	13	13	228	21	32	13	32	8
November-2022	12	12	210	19	30	12	32	8
December-2022	10	10	210	19	25	10	28	7
Subtotal August 2022-December 2022	60	60	1104	101	150	60	160	40
Average Gallons/Day August 2022- December 2022	1.00		10.93		2.50		4.00	

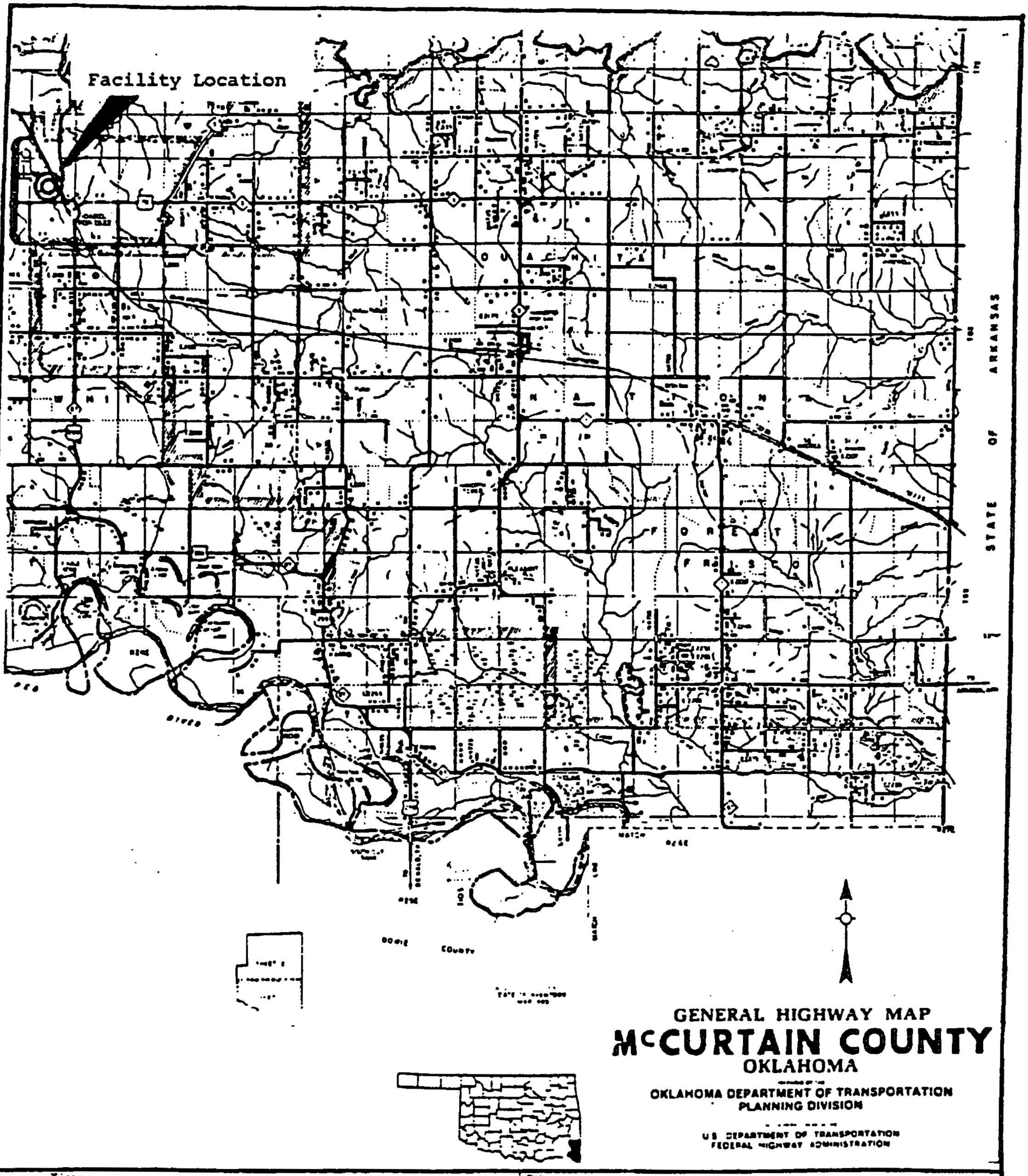


Figure Title: FIGURE 2.1: FACILITY LOCATION MAP	Client: MIXON BROTHERS WOOD PRESERVING, INC.
Document Title: RCRA CLOSURE PLAN	Location: IDABEL, OK

ROBERTS/SCHORNICK & ASSOCIATES, INC. Environmental Consultants 860 Copperfield Dr. - Suite A Norman, Oklahoma 73072 405/321-3895	Drawn by: H.R.	Scale: NTS
	Checked by:	Date: 1-18-85
	Project No.: 87014	Figure No.: 2.1

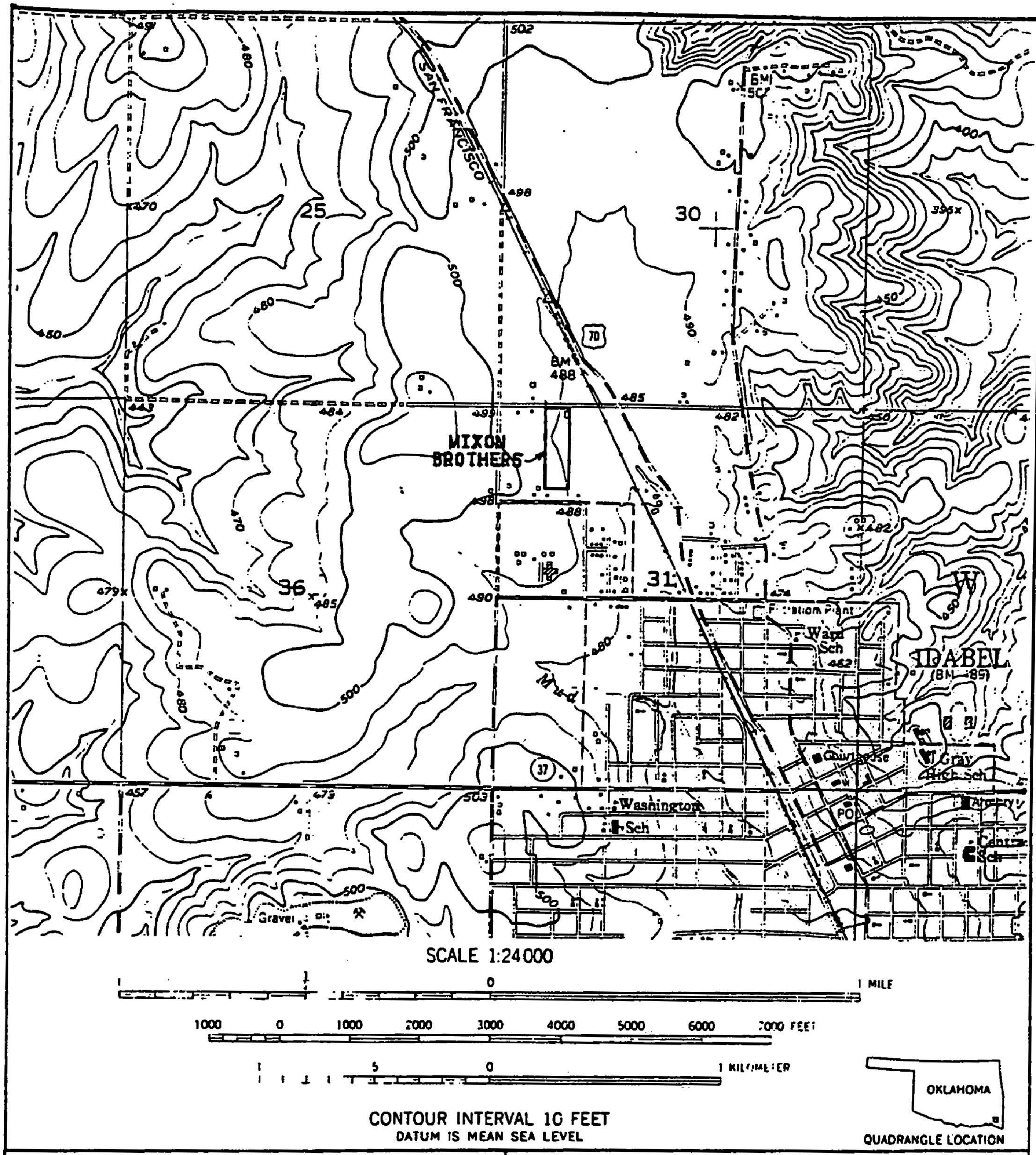


Figure Title: Figure 2.2: Site Topography	*Client:* MIXON BROTHERS
Document Title: RCRA Closure Plan	*Location:* IDABELL, OK

ROBERTS/SCHORNICK & ASSOCIATES, INC. 860 Copperfield Drive, Suite A Norman, Oklahoma 73072 (405) 321-3895	*Drawn by:* B S J	*Scale:* AS SHOWN
	Checked by: H M S	*Date:* 3-5-88
	Project No.: 87014	*Figure No.:* 2.2

2.3 Site Location

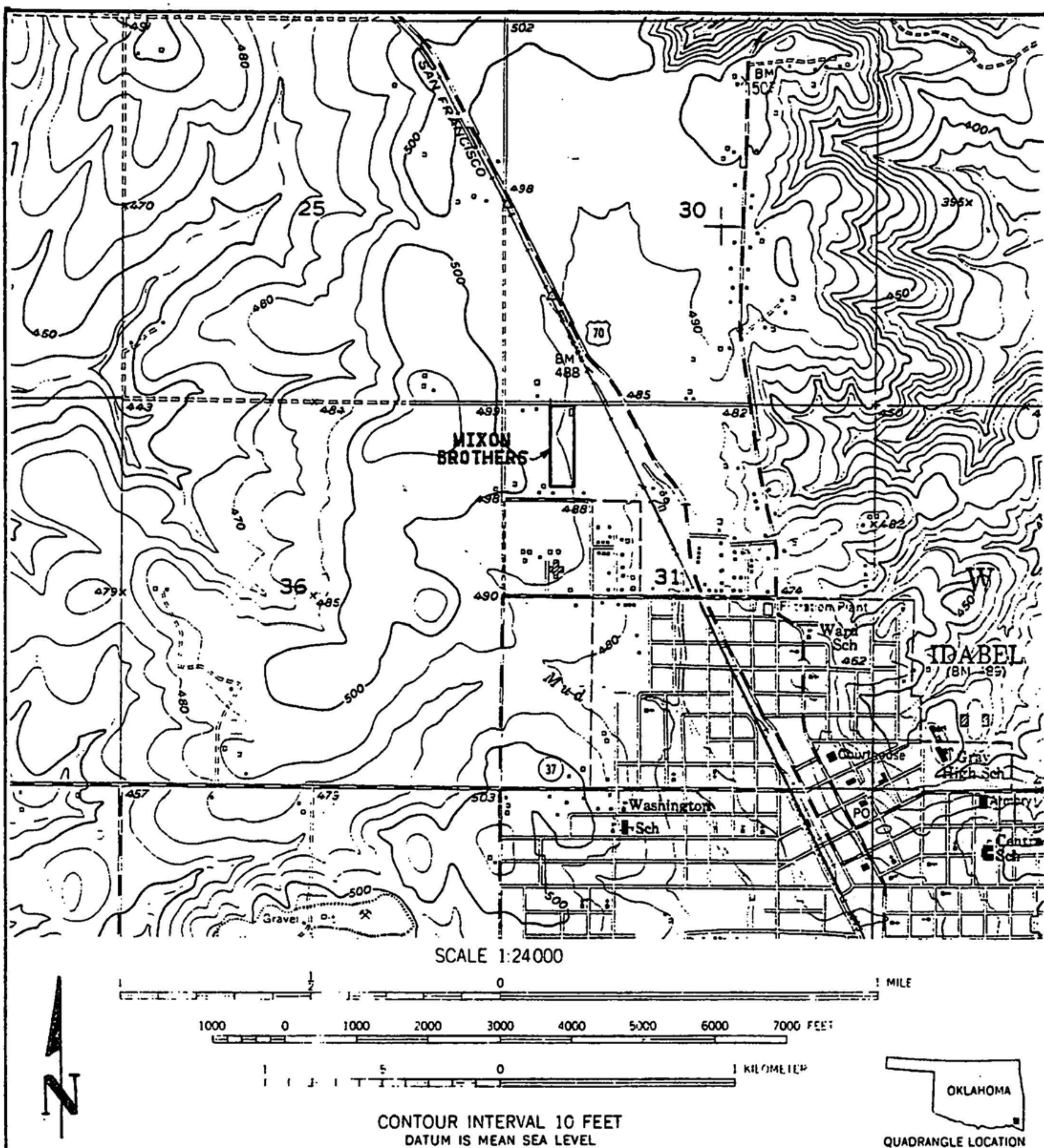
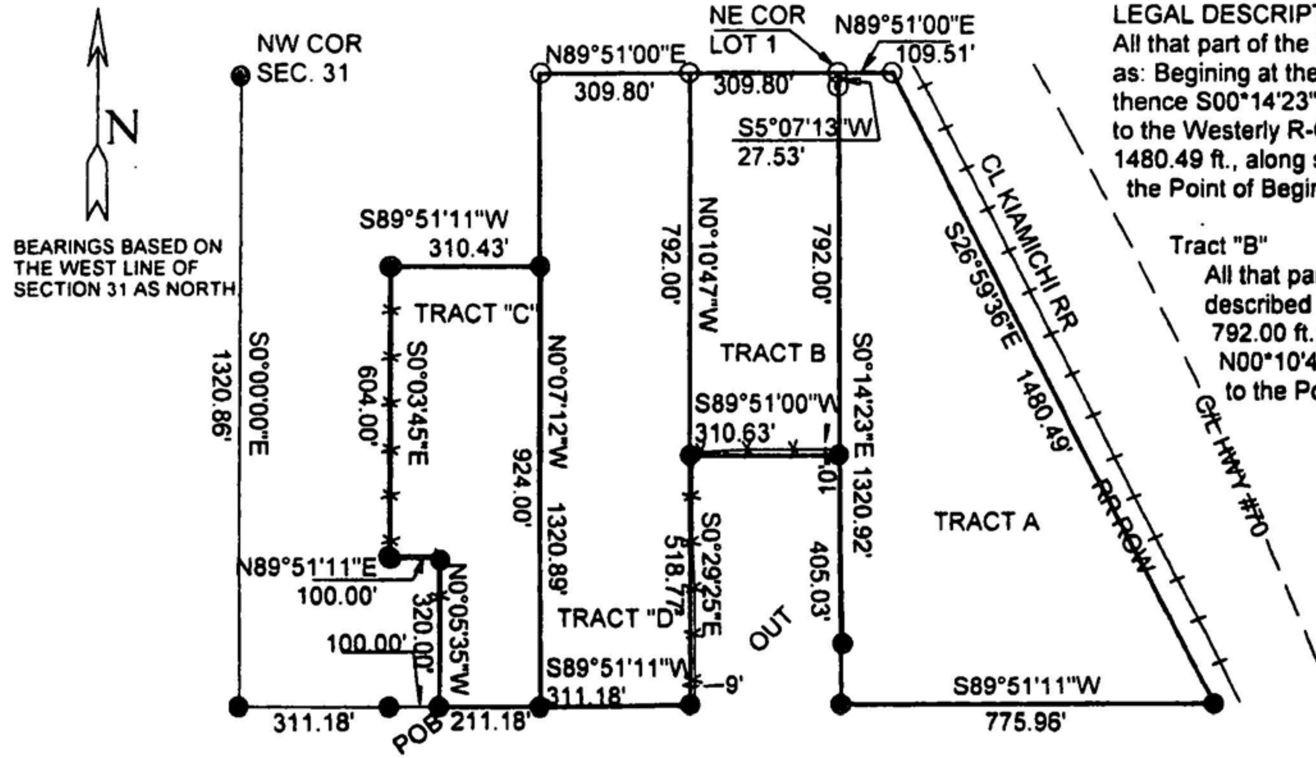


Figure Title: LOCATION MAP	*Client:* MIXON BROTHERS



LEGAL DESCRIPTION Tract "A"

All that part of the NE1/4 NW1/4 Sec. 31, T7S R24E, IBM, described as: Begining at the NW corner of NE1/4 NW1/4 of said Sec. 31; thence S00°14'23"E, 1320.92 feet; thence S89°51'11"E, 775.96 ft., to the Westerly R-O-W of Kiamichi Railroad; thence N26°59'36"W, 1480.49 ft., along said R-O-W; thence S89°51'00"W, 109.51 ft. to the Point of Beginning, containing 13.43 acres.

Tract "B"

All that part of Lot 1, Section 31, T7S, R24E, IBM, described as; Begin at the NE corner, thence S00°14'23"E, 792.00 ft.; thence S89°51'00"W, 310.63 ft. thence N00°10'47"W, 792.00 ft.; thence N89°51'00"E, 309.80 ft., to the Point of Beg. containing 5.64 acres, more or less.

2.4 MBWP Surveyed Property Lines

LEGEND	
●	Set 1/2" Iron Pin/Cap
⊕	Exst. 961 Iron Pin
⊙	Exst. 80d in Conc.
○	Set Conc. Nail

LEGAL DESCRIPTION TRACT "C"

Begin N89°51'11"E, 100.00 ft. of the SW Cor. E/2 W/2 Lot 1, Sec. 31. T7S, R24E, IBM, thence N89°51'11"E, 211.18 ft.; thence N00°07'12"W, 924.00 ft.; thence S89°51'11"W, 310.43 ft.; thence S00°03'45"E, 604.00 ft.; thence N89°51'11"E, 100.00 ft.; thence S00°05'35"E, 320.00 ft., to the POB.

0 400

LEGAL DESCRIPTION TRACT "D"

The W1/2 E1/2 Lot 1, Section 31, T&S R24 E, IBM, containing 9.42 acres.

CERTIFICATE OF SURVEY

I, Donald L. Pollard, a Registered Land Surveyor, hereby certify that a careful survey was made under my supervision of the above described parcel. This is a true and correct plat thereof and that this survey meets or exceeds the "Oklahoma Minimum Standards For The Practice of Land Surveying" adopted September 17, 1993 by the Oklahoma State Board of Registration For Professional Engineers and Land Surveyors.

Donald L Pollard 8-18-03

Donald L. Pollard RLS #961

REGISTERED LAND SURVEYOR
Donald L. Pollard
L.S. 961
OKLAHOMA

POLLARD SURVEYING
CA #2266 EXP. 6-30-06
HC 60 Box 400, Haworth, OK 74740
(580) 245-1574
DONALD L. POLLARD
Registered Land Surveyor #961

Filename		
C:\T 7 S 24\7S24E31.TRV		
Scale	Date 8-18-2003	Drawn By RO
Job 7/22/03	Revision #1	Sheet MIXON

Traverse PC

2.5 MBWP Facility Map

FACILITY MAP
MIXON BROS. WOOD PRESERVING, INC.
1202 NW 16TH STREET
IDABELL, OK 74745
McCURTAIN COUNTY, OKLAHOMA

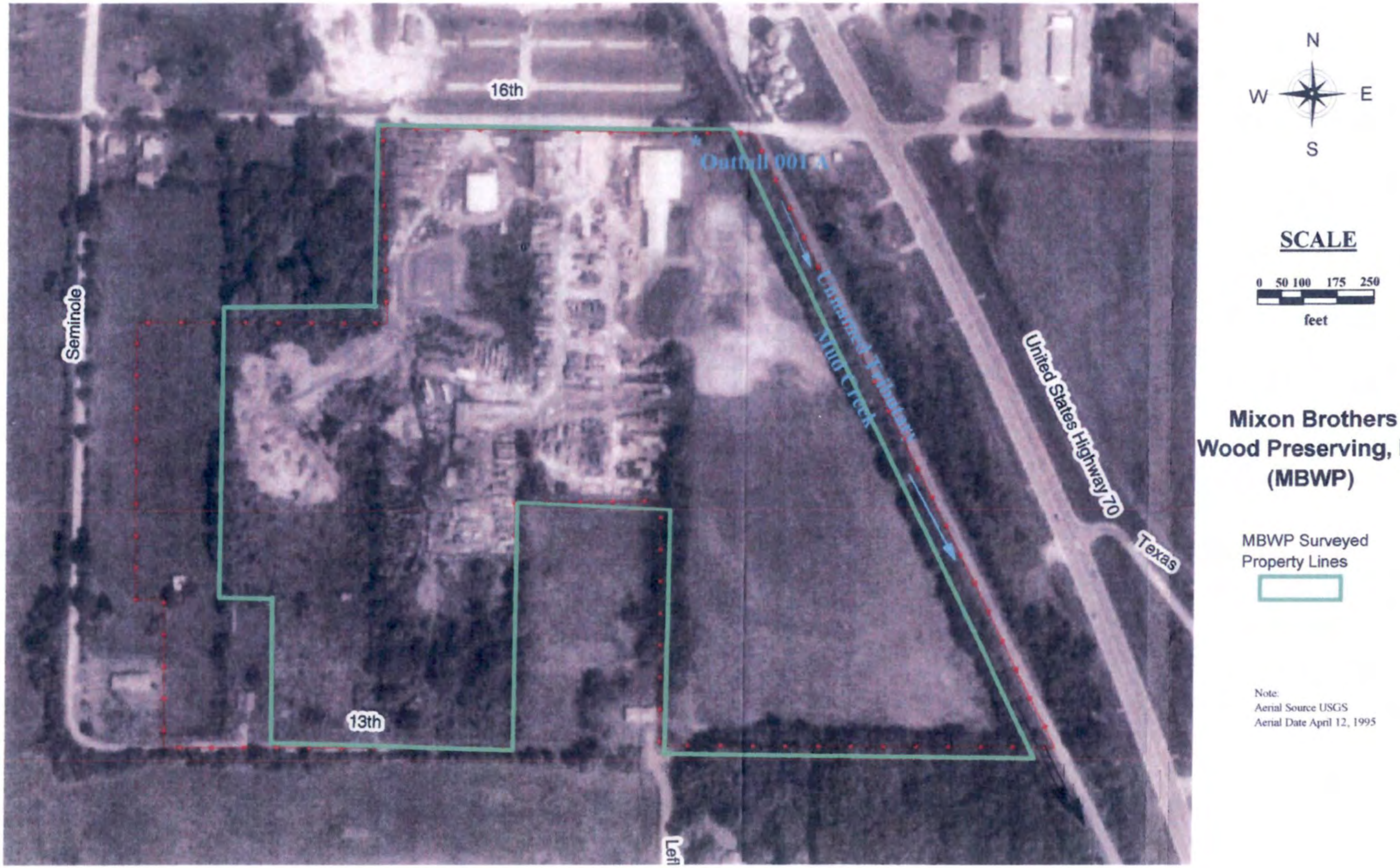
1"=100'

SCALE: 1" = 100'

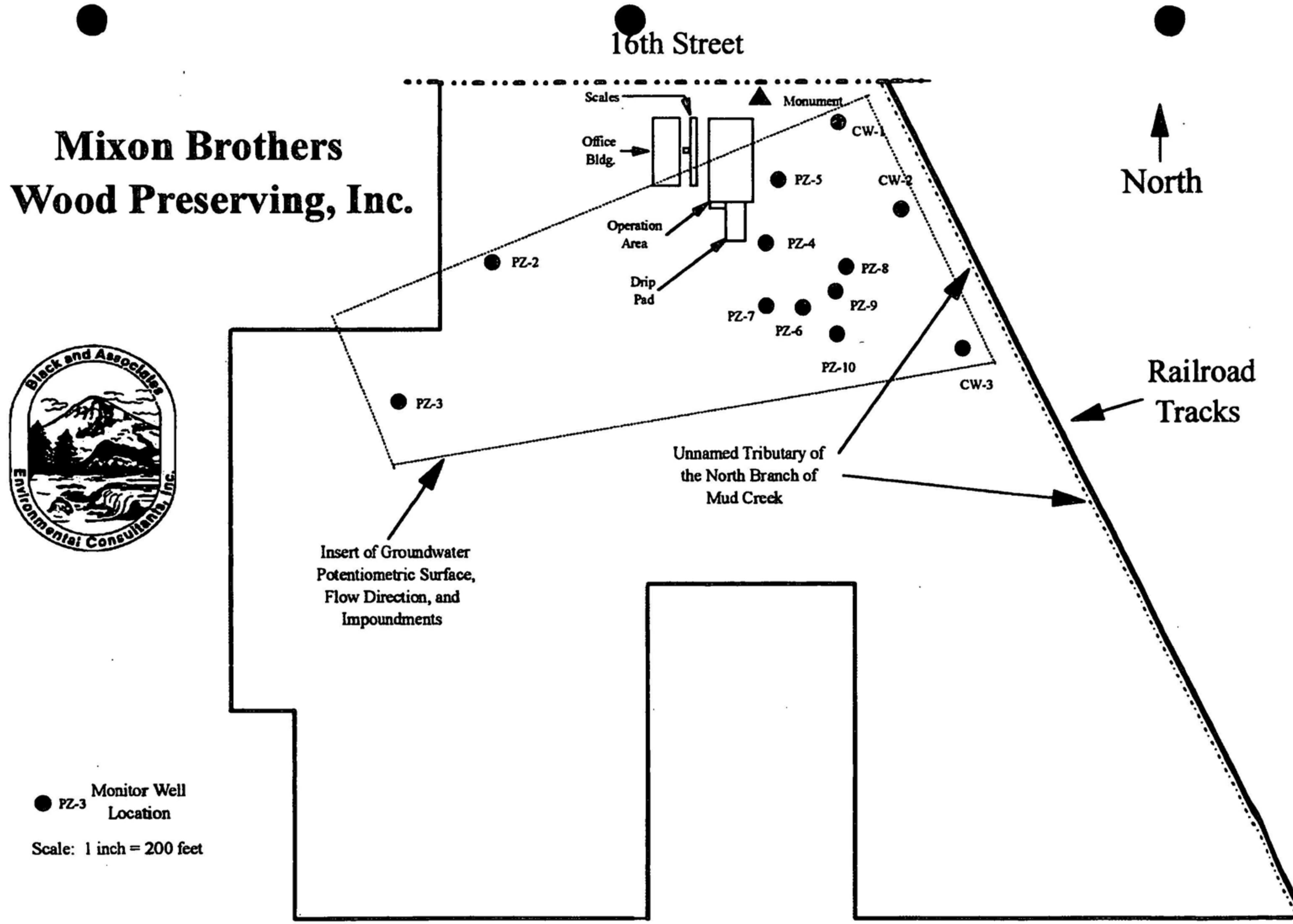
LEGEND
PROPERTY LINE
WASTE MANAGEMENT UNITS
MONITORING WELLS
STORMWATER OUTFALL
STREAM FLOW
OPERATIONAL BUILDINGS

PREPARED FOR BLACK AND ASSOCIATES, NORMAN, OK
EXHIBIT ONLY-- NOT A CONSTRUCTION PLAN
PREPARED FROM VARIOUS SURVEY DATA AND AERIAL PHOTOGRAPH
DATE OF AERIAL PHOTO: APRIL 12, 1995 (USGS)

MIXON BROS. WOOD PRESERVING, INC. 1202 NW 16TH STREET IDABELL, OK 74745 McCURTAIN COUNTY, OKLAHOMA	KEEN ENGINEERING 2104 SW 70TH STREET OKLAHOMA CITY, OK 73159 CA 4367, EXP. 06-30-2011 DATE 8/19/09 Earl Gary Keen	REGISTERED PROFESSIONAL ENGINEER EARL GARY KEEN 11438 OKLAHOMA



2.6 MBWP Property Lines overlay Aerial Photograph 1995



19.1 MBWP Facility Map

Attachment One

HAYTER
ENGINEERING

Mr. Bob Mixon
Mixon Brothers Wood Preserving Company, Inc.
P.O. Box 327
Idabel, OK 74745

November 3, 2021

Re: Drip Pad Assessment 2021

Dear Mr. Mixon:

On November 3, 2021 I visited Mixon Brothers Wood Preserving Company to make an annual evaluation of the existing concrete drip pad. This pad is constructed of concrete 28' wide by 100' long. It is 22 inches thick according to the original construction documents. The pad incorporates a sloped, curbed section to prevent runoff and two pairs of steel rails serving two pressure vessels. The pad is covered by a steel roof supported on a structural steel frame. According to the original construction drawings which I reviewed there is a geotextile drainage layer beneath the concrete which covers an impervious membrane. The drainage layer slopes to a collection pipe and can be pumped via two vertical risers.

Prior to my visit, I reviewed previous letters that stated you had started using copper naphtenate concentrate called QNAP 8 in lieu of creosote. During my visit we discussed ongoing operation and maintenance procedures were still in accordance with the previous inspection letters. I observed the drip pad and took several photographs. During past inspections starting in 2008 we noted four minor hairline cracks in the pad which were repaired at that time. The SIKADUR sealant appears to be in excellent condition and there is no further sign of deterioration in any of the sealed cracks. In 2012 we noted a short hairline crack toward the north end of the pad. This crack is considered insignificant and, in my opinion upon review of past reports, has not changed in the ensuing years. You advised that you periodically check the underdrain collection system and have not encountered any problems.

Based upon our discussions my observations of the drip pad condition and the other information provided it is my opinion that the pad was structurally sound, intact and performing its intended purpose at the time of my visit. Our assignment was limited to providing an opinion on the drip pad itself and should not be construed in connection with any other portions of the facility. We did not review other portions of the facility.

Thank you for this opportunity to be of service. We wish you a successful year. Please let me know if we can provide any additional information.

Sincerely,

HAYTER ENGINEERING, INC.
Oklahoma CA 603PE (30-Jun-17)

11/3/21

Tyler L. Creamer, P.E.
Principal/Project Manager

LICENSED PROFESSIONAL ENGINEER
TYLER L. CREAMER
29399
OKLAHOMA

Attachment Two

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

September 26, 2022

To Whom It May Concern:

Mixon Brothers Wood Preserving, Inc. operates a copper naphthenate wood preserving operation at Idabel, Oklahoma.

The copper naphthenate wood preserving facility has two pressure vessels (or cylinders) - the dimensions of the units are seven (7) feet in diameter by seventy-four (74) feet in length, with a steel lined concrete sump which contains a steel insert with a leak detection system, a new concrete drip pad with a leakage collection system above the 60 mil. HDPE geomembrane, two rail tracks, and a roof over the drip pad.

According to my field inspections and review of the facility Storm Water Pollution Prevention Plan, I certify that the current wood preserving operations at the Mixon Bother's Wood Preserving, Inc. meet the requirements stated in the Federal Register, Vol. 57, No. 175, "Final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity.", Part IV: Storm Water Pollution Prevention Plans and Vol. 60, No. 189 "Final National Pollutant Discharge Elimination System Storm Water Multi-Sector General Permit for Industrial Activities. The plan was prepared in accordance with good engineering practices and in accordance with factors outlined in 40 CFR 125.3 (d), (2), or (3) as appropriate.

Jerry J. Black
Registered and Court Qualified
Environmental Professional Number REP- 3001

Attachment Three

List of Laboratory Reports
for
Outfall 001 (2013-2022)

Laboratory Reports Number	Sampling Date
E3F0095FINAL0614131309	June 7, 2013
E3K0135FINAL1119131344	November 8, 2013
E5C0162FINAL0318152342 03182015	March 10, 2015
E5E0378FINAL0602151056	May 21, 2015
E5L0300FINAL1231150857	December 15, 2015
E6D0358ETIOKCFINALCOC(PDF)MRLFINAL0429160929	April 22, 2016
E6K0437_2ETIOKCFINALCOC(PDF)MRL1206161427	November 29, 2016
E7G0087_1ETIOKCCOC(PDF)MRL0719171655	July 6, 2017
E8C0011_1 ETI OKC RPT MRL 03 07 18 1204	February 28, 2018
E9E0091_1 ETI_OKC_RPT MRL 05 10 19 1521	May 3, 2019
E9E0388_1 ETI_OKC_RPT MRL 05 29 19 1212	May 20, 2019
E0D0009_1 ETI_OKC_RPT MRL 04 07 20 1353	March 31, 2020
E1E0451_1 ETI_OKC_RPT MRL 06 07 21 0835	May 27, 2021
E2H0320_1 ETI_OKC_RPT MDL 08 24 22 1647	August 8, 2022

Black and Associates Environmental Consultants, Inc.

Attachment Four

List of Laboratory Reports
for
CWPZ Monitoring Wells (2013-2022)

Laboratory Reports Number	Sampling Date
E3H0176 FINAL 08 27 131333	August 12, 2013
E4H0028 FINAL 08 13 14 1020	August 1, 2014
E5H0002 FINAL 08 10 15 0756	August 1, 2015
E6I0021ETIOKCFINALCOC(PDF)MDLFINAL0923160948	August 31, 2016
E6I0531_2ETIOKCFINALCOC(PDF)MRL1005160942	September 9, 2016
E7H0601_1ETIOKCCOC(PDF)MDL0912171506	August 28, 2017
E8H0713_1 ETI OKC RPT MDL 09 26 18 1337	August 29, 2018
E9H0652_1 ETI_OKC_RPT MDL 09 03 19 1624	August 28, 2019
E0H0510 ETI_OKC_RPT MDL FINAL 09 03 20 1733	August 26, 2020
E1H0367 ETI_OKC_RPT MDL FINAL 09 22 21 0900	August 18, 2021
E2H0320_1 ETI_OKC_RPT MDL 08 24 22 1647	August 8, 2022

Black and Associates Environmental Consultants, Inc.

Attachment Five

Mixon Brothers Wood Preserving, Inc.

Employees Safety and Pollution Prevention Refresher Agenda

November 15, 2022

I.	**Regulations**
II.	**Materials Storage and Handling including Chemical Hazards and Protective Equipment**
III.	**Spill Prevention and Response Procedures**
IV.	**Housekeeping Procedures**
V.	**Pollution Prevention Plan**
VI.	**Safe Work Practices and First Aid**
VII.	**Waste Minimization**
VIII.	**Hazardous Communication Program**
IX.	**Discussion and Questions**
X.	**Worker Protection for Winter Weather**
XI.	**Monkey Pox Awareness**

Earvin L. Wright
Employee's Signature

Bob Mixon
Witness Signature

EARVIN L. Wright
Print Name

BoB Mixon
Print Name

11-15-22
Date

11-15-22
Date

Attachment Four

List of Laboratory Reports
for
CWPZ Monitoring Wells (2013-2022)

Laboratory Reports Number	Sampling Date
E3H0176 FINAL 08 27 131333	August 12, 2013
E4H0028 FINAL 08 13 14 1020	August 1, 2014
E5H0002 FINAL 08 10 15 0756	August 1, 2015
E6I0021ETIOKCFINALCOC(PDF)MDLFINAL0923160948	August 31, 2016
E6I0531_2ETIOKCFINALCOC(PDF)MRL1005160942	September 9, 2016
E7H0601_1ETIOKCCOC(PDF)MDL0912171506	August 28, 2017
E8H0713_1 ETI OKC RPT MDL 09 26 18 1337	August 29, 2018
E9H0652_1 ETI_OKC_RPT MDL 09 03 19 1624	August 28, 2019
E0H0510 ETI_OKC_RPT MDL FINAL 09 03 20 1733	August 26, 2020
E1H0367 ETI_OKC_RPT MDL FINAL 09 22 21 0900	August 18, 2021
E2H0320_1 ETI_OKC_RPT MDL 08 24 22 1647	August 8, 2022

Attachment Five

Mixon Brothers Wood Preserving, Inc.

Employees Safety and Pollution Prevention Refresher Agenda

November 15, 2022

I. **Regulations**

II. **Materials Storage and Handling including Chemical Hazards and Protective Equipment**

III. **Spill Prevention and Response Procedures**

IV. **Housekeeping Procedures**

V. **Pollution Prevention Plan**

VI. **Safe Work Practices and First Aid**

VII. **Waste Minimization**

VIII. **Hazardous Communication Program**

IX. **Discussion and Questions**

X. **Worker Protection for Winter Weather**

XI. **Monkey Pox Awareness**

William Wright	Bob Mixon
Employee's Signature	**Witness Signature**
William Wright	Bob B Mixon
Print Name	**Print Name**
11-15-22	11-15-22
Date	**Date**

Attachment 7

Photographs of Monitor Wells CW-1, CW-2, CW-3, PZ-4, PZ-6, & PZ-7

CW-1

CW-2

CW-3

PZ-4

PZ-6

PZ-7

Appendix A

Quality Assurance Project Plan

for

Since 1948

Mixon Brothers Wood Preserving, Inc.

March 2, 2023

Black and Associates Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Appendix A

Table of Contents

Since 1948

Mixon Brothers Wood Preserving, Inc.

Black and Associates Environmental Consultants, Inc.

Appendix A

List of Attachments

Attachment 1. Black and Associates Chain of Custody dated August 16, 2022

Attachment 2. Sample Preservation
Table 1. Recommendation for Sampling and Preservation of Samples according to measurement.

Attachment 3. Black and Associates Letter dated August 16, 2022

Attachment 4. Instruction Manuals for pH and specific conductivity meters

Attachment 5. Black and Associates Project Log dated August 16, 2022

Since 1948

Mixon Brothers Wood Preserving, Inc.

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

QUALITY ASSURANCE PROJECT PLAN

A. SAMPLING AND ANALYSIS PROCEDURES

Field sampling methods and analytical procedures used will follow the descriptions in "Standard Methods, 17th Edition" (1989), "Handbook for Analytical Quality Control in Water and Wastewater Laboratories" (EPA-600/4-79-019) (March 1979), "Methods for Chemical Analysis of Water and Wastes" (EPA-600/4-79-20) (March 1979), "Site Characterization for Subsurface Remediations" (CERI-89-224)(September 1989), "Ground Water" (EPA/625/6-87/016)(March 1987), "Ground Water, Volume II: Methodology" (EPA/625/6-90/016b)(July 1991), "Ground-Water Monitoring Technical Enforcement Guidance Document", (OSWER Directive 9950.1, 1986), "A Guide to the Selection of Materials For Monitoring Well Construction and Ground-water Sampling" (EPA-600/2-84-024)(January 1984), "Microbiological Methods for Monitoring the Environment (EPA/600/8-78-017)(December 1978),"Biological Field and Laboratory Methods" (EPA-670/4-73-001)(July 1973),"Practical Guide for Ground-Water Sampling" (EPA/600/2-85/104)(September 1985), "Test Methods for Evaluating Solid Waste" (SW-846, 1986), "Subsurface Characterization and Monitoring Techniques",(EPA/625/R-93/003a)(May 1993), "Description and Sampling of Contaminated Soils" (EPA/625/12-91/002)(November 1991), "Air Monitoring Instrumentation" S.P. Maslansky et al, 1993, Van Nostrand Reinhold, N.Y., (ISBN 0-442-00973-9), United States Geological Survey (USGS) National Field Manual for the collection of Water Quality Data (NFM), and the Oklahoma Water Resources Board "Quality Assurance Plan for Water Quality Division Enforcement, Monitoring and Permitting Activities" (September 1985).

Both pH and Specific Conductance are measured with a digital Conductance/Temperature and pH Tester. The digital Conductance/Temperature Meter is an Oakton Con 11 Series Conductivity/TDS/°C Meter and the waterproof pH Tester is Oakton Waterproof pHTestr 30.

B. SAMPLING CUSTODY

The custody program provides a written record (Attachment One) which allows a sample to be traced from the time of collection to when the data from the laboratory is presented to the legal council or the client.

Field Procedures: Following collection, the samples are labeled immediately and directly on the sample container; which is then recorded on the field Project log sheet (Attachment Five)with the following information: sampling code number, date of collection, location and site description, type of sample, and any preservatives, if any were added to the sample. A complete sample preservation document is presented in Attachment 2 for reference purposes.

Transfer Procedures: Many of the parameters' concentrations will be analyzed and determined by a commercial laboratory. Only the commercial laboratories which are specifically certified for those parameters through the Oklahoma Department of Environmental Quality (ODEQ) Laboratory Certification Program and participated in the US EPA Water Pollution Performance Evaluation Studies will be considered for such contracts.

Due to the contracted laboratory service, it is necessary to transfer collected samples from field personnel to laboratory personnel. Prior to the delivery of samples to the designated commercial laboratory, Black & Associates Environmental Consultants, Inc.', (BAEC) field personnel will prepare a formal letter specifically outlining the requested analytical parameters of each sample to be tested; in addition to the standard chain of custody paper. A typical example of such a formal letter is presented in Attachment Three. The signed original copy of the custody paper and a copy of the standard request letter will both be returned to the custody of BAEC's file system.

C. CALIBRATION PROCEDURES AND FREQUENCY

The guidelines given in the manufacturer's user manual for both pH and Specific Conductivity calibration are to be followed precisely.

The Quality Control of the check procedures, frequency of check, and control limits for both pH and Specific Conductivity are listed in the following table for reference purposes.

PARAMETER	CHECK PROCEDURE	FREQUENCY OF CHECK	CONTROL LIMITS
pH	Check against standard buffer solutions (4.0, 7.0, and 10.0).	Prior to each field trip.	0.01 SU*
	Check against standard reference 7.0 buffer solution and within the expected pH value range of the sample.	At each sampling station or point.	0.01 SU*
Specific Conductivity	Check against lower, mid, & upper range standards	Prior to each field trip.	2% Full Scale*
	Check against mid range standard	At each sampling station or point.	2% Full Scale*

"*" : Measured or tested at 77 degree of Fahrenheit.
"SU" : Standard Unit in pH measurement

The instruction manuals of the tester are presented as Attachment 4 in the Quality Assurance Plan for reference purposes.

D. PERFORMANCE AND SYSTEM AUDITS AND FREQUENCY

Laboratory and Field Procedures: Evaluation of equipment performance involves checking the precision and accuracy of the systems with the periodic calibration of equipment. Calibration of equipment will be according to the procedures described in the manufacturer's user manual. Field/Equipment blanks will be used at least 5 % of the overall sampling, with Trip Blanks for each mobilization.

E. PREVENTATIVE MAINTENANCE PROCEDURES AND SCHEDULES

The manufacturer recommended maintenance procedures and schedules are to be followed exactly for each testing probe.

Attachment One

CHAIN OF CUSTODY			
RETURN THIS PAGE TO: **Black and Associates Environmental Consultants, Inc.** 1908 W. Boyd Norman, Oklahoma 73069-4830 (405)360-2852			
Sample Number 08152022 A-E	**Date Collected** August 15, 2022	**Time Collected**	
Site I.D. (station) Mixon Brothers Wood Preserving Inc. RCRA Site			
Sample Collector J. J. Black	**Witness(es)**		
Remarks: Received on Ice (4°C) 0.8 +0.4 = 1.2			
I hereby certify that I received this sample and disposed of as noted below:			
RECEIPT OF SAMPLE	**Received From** Jerry J. Black	**Dated Received** August 16, 2022	**Time Rec'd** 14:20 hrs.
	Disposition of Sample ETL for analysis	**Signature** Stephanie Saul	
I hereby certify that I received this sample and disposed of it as noted below:			
RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd** hrs.
	Disposition of Sample	**Signature**	

Attachment Two

SAMPLE PRESERVATION

Complete and unequivocal preservation of samples, either domestic sewage, industrial wastes, or natural waters, is a practical impossibility. Regardless of the nature of the sample, complete stability for every constituent can never be achieved. At best, preservation techniques can only retard the chemical and biological changes that inevitably continue after the sample is removed from the parent source. The changes that take place in a sample are either chemical or biological. In the former case, certain changes occur in the chemical structure of the constituents that are a function of physical conditions. Metal cations may precipitate as hydroxides or form complexes with other constituents; cations or anions may change valence states under certain reducing or oxidizing conditions; other constituents may dissolve or volatilize with the passage of time. Metal cations may also adsorb onto surfaces (glass, plastic, quartz, etc.), such as, iron and lead. Biological changes taking place in a sample may change the valence of an element or a radical to a different valence. Soluble constituents may be converted to organically bound materials in cell structures, or cell lysis may result in release of cellular material into solution. The well known nitrogen and phosphorus cycles are examples of biological influence on sample composition. Therefore, as a general rule, it is best to analyze the samples as soon as possible after collection. This is especially true when the analyte concentration is expected to be in the low ug/l range.

Methods of preservation are relatively limited and are intended generally to (1) retard biological action, (2) retard hydrolysis of chemical compounds and complexes, (3) reduce volatility of constituents, and (4) reduce absorption effects. Preservation methods are generally limited to pH control, chemical addition, refrigeration, and freezing.

The recommended preservative for various constituents is given in Table 1. These choices are based on the accompanying references and on information supplied by various Quality Assurance Coordinators. As more data become available, these recommended holding times will be adjusted to reflect new information. Other information provided in the table is an estimation of the volume of sample required for the analysis, the suggested type of container, and the maximum recommended holding times for samples properly preserved.

Attachment Two (Continued)

TABLE 1

RECOMMENDATION FOR SAMPLING AND PRESERVATION OF SAMPLES ACCORDING TO MEASUREMENT[1]

Measurement	Vol. Req. (ml)	Container[2]	Preservative	Holding Time[3]
100 Physical Properties				
Color	50	P,G	Cool, 4°C	24 Hrs.
Conductance	100	P,G	Cool, 4°C	24 Hrs.[4]
Hardness	100	P,G	Cool, 4°C HNO_3 to pH < 2	6 Mos.[5]
Odor	200	G only	Cool, 4°C	24 Hrs.
pH	25	P,G	Det. on site	6 Hrs.
Residue				
Filterable	100	P,G	Cool, 4°C	7 Days
Non-Filterable	100	P,G	Cool, 4°C	7 Days
Total	100	P,G	Cool, 4°C	7 Days
Volatile	100	P,G	Cool, 4°C	7 Days
Settleable Matter	1000	P,G	None Req.	24 Hrs.
Temperature	1000	P,G	Det. on site	No Holding
Turbidity	100	P,G	Cool, 4°C	7 Days
200 Metals				
Dissolved	200	P,G	Filter on site HNO_3 to pH < 2	6 Mos.[5]
Suspended	200		Filter on site	6 Mos.
Total	100	P,G	HNO_3 to pH < 2	6 Mos.[5]

TABLE 1 (CONT)

Measurement	Vol. Req. (ml)	Container[2]	Preservative	Holding Time[3]
Mercury				
Dissolved	100	P,G	Filter on site HNO_3 to pH < 2	38 Days (Glass) 13 Days (Hard Plastic)
Total	100	P,G	HNO_3 to pH < 2	38 Days (Glass) 13 Days (Hard Plastic)
300 Inorganics, Non-Metallics				
Acidity	100	P,G	None Req	24 Hrs.
Alkalinity	100	P,G	Cool, 4°C	24 Hrs.
Bromide	100	P,G	Cool, 4°C	24 Hrs.
Chloride	50	P,G	None Req	7 Days
Chlorine	200	P,G	Det. on site	No Holding
Cyanides	500	P,G	Cool, 4°C NaOH to pH 12	24 Hrs.
Fluoride	300	P,G	None Req.	7 Days
Iodide	100	P,G	Cool, 4°C	24 Hrs.
Nitrogen				
Ammonia	400	P,G	Cool,4°C H_2SO_4 to pH < 2	24 Hrs.
Kjeldahl, Total	500	P,G	Cool, 4°C H_2SO_4 to pH < 2	24 Hrs.[4]
Nitrate plus Nitrite	100	P,G	Cool, 4°C H_2SO_4 to pH < 2	24 Hrs.[4]
Nitrate	100	P,G	Cool, 4°C	24 Hrs.
Nitrite	50	P,G	Cool, 4°C	48 Hrs.

TABLE 1 (CONT)

Measurement	Vol. Req. (ml)	Container[2]	Preservative	Holding Time[3]
Dissolved Oxygen				
Probe	300	G only	Det. on site	No Holding
Winkler	300	G only	Fix on site	4–8 Hours
Phosphorus				
Ortho-phosphate, Dissolved	50	P,G	Filter on site Cool, 4°C	24 Hrs.
Hydrolyzable	50	P,G	Cool, 4°C H_2SO_4 to pH<2	24 Hrs.[6]
Total	50	P,G	Cool, 4°C H_2SO_4 to pH<2	24 Hrs.[6]
Total, Dissolved	50	P,G	Filter on site Cool, 4°C H_2SO_4 to pH<2	24 Hrs.[6]
Silica	50	P only	Cool, 4°C	7 Days
Sulfate	50	P,G	Cool, 4°C	7 Days
Sulfide	500	P,G	2 ml zinc acetate	24 Hrs.
Sulfite	50	P,G	Det. on site	No Holding
400 Organics				
BOD	1000	P,G	Cool, 4°C	24 Hrs.
COD	50	P,G	H_2SO_4 to pH<2	7 Days[9]
Oil & Grease	1000	G only	Cool, 4°C H_2SO_4 or HCl to pH<2	24 Hrs.
Organic carbon	25	P,G	Cool, 4°C H_2SO_4 or HCl to pH<2	24 Hrs.
Phenolics	500	G only	Cool, 4°C H_3PO_4 to pH<4 1.0 g $CuSO_4$/l	24 Hrs.
MBAS	250	P,G	Cool, 4°C	24 Hrs.

TABLE 1 (CONT)

Measurement	Vol. Req. (ml)	Container[2]	Preservative	Holding Time[3]
NTA	50	P,G	Cool, 4°C	24 Hrs.

1. More specific instructions for preservation and sampling are found with each procedure as detailed in this manual. A general discussion on sampling water and industrial wastewater may be found in ASTM, Part 31, p. 72–82 (1976) Method D-3370.

2. Plastic (P) or Glass (G). For metals, polyethylene with a polypropylene cap (no liner) is preferred.

3. It should be pointed out that holding times listed above are recommended for properly preserved samples based on currently available data. It is recognized that for some sample types, extension of these times may be possible while for other types these times may be too long. Where shipping regulations prevent the use of the proper preservation technique or the holding time is exceeded, such as the case of a 24-hour composite, the final reported data for these samples should indicate the specific variance.

4. If the sample is stabilized by cooling, it should be warmed to 25°C for reading, or temperature correction made and results reported at 25°C.

5. Where HNO_3 cannot be used because of shipping restrictions, the sample may be initially preserved by icing and immediately shipped to the laboratory. Upon receipt in the laboratory, the sample must be acidified to a pH <2 with HNO_3 (normally 3 ml 1:1 HNO_3/liter is sufficient). At the time of analysis, the sample container should be thoroughly rinsed with 1:1 HNO_3 and the washings added to the sample (volume correction may be required).

6. Data obtained from National Enforcement Investigations Center-Denver, Colorado, support a four-week holding time for this parameter in Sewerage Systems. (SIC 4952).

Attachment Three

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 16, 2022

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 08152022 A-E for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270 SIM, 2 µg/L).

08152022 A-E are liquid samples.

Attachment Four

EUTECH INSTRUMENTS

OAKTON

INSTRUCTION MANUAL

pHTestr 10, 20, 30, 10BNC, Spear

Large Screen
Waterproof pH / Temperature Tester
Double Junction

Introduction

[illegible]

Before you begin

[illegible]

pH Buffer Set Selection

[illegible]

Figure 1: Buffer Selection Sequence

pH Calibration

[illegible]

3. Press the CAL button to enter calibration mode. The "CAL" indicator will be shown. The upper display will show the measured reading based on the last calibration while the lower display will show the pH standard buffer solution.

Note: All testers have dual display during calibration mode.
Note: To abort calibration, press the [illegible] button.

4. Allow about 2 minutes for the [illegible] reading to stabilize before pressing the HOLD/ENT button to confirm the [illegible] calibration point. The upper display will be calibrated to the pH standard [illegible] solution and the lower display will then be toggling in between readings [illegible] next pH standard buffer solution.
5. Repeat with other buffers if necessary. Rinse electrode in tap water before dipping into next buffer.

Note: The calibration mode allows you to perform up to three calibration points before returning to the measurement mode [illegible]. However if you opted to have only one or two calibration points, simply skip [illegible] remaining calibration points by returning to the measurement mode by pressing the [illegible] button.

Figure 2: Example of pH Calibration Sequence

pH Measurement

[illegible]

HOLD Function

[illegible]

Figure 4: Example of HOLD Function

User Reset

[illegible]

Figure 5: User Reset Sequence

ATC - Automatic Temperature Compensation

(Only for pHTestr 10, pHTestr 20 and pHTestr 30)

[illegible]

MTC - Manual Temperature Compensation

(Only for pHTestr 10BNC, pH Spear)

[illegible]

Attachment Four (Continued)

Temperature Calibration (Only for pHTestr 30)

Figure 6. Temperature Calibration Sequence (Only for pHTestr 30)

Electrode Maintenance

Changing Batteries

Self-Diagnostic Messages

Electrode Replacement

Figure 7. Removal of collar from tester

Figure 8. Example of electrode module fitting alignment

Applications

Warranty

Return of Items

Accessories

Tester Specifications

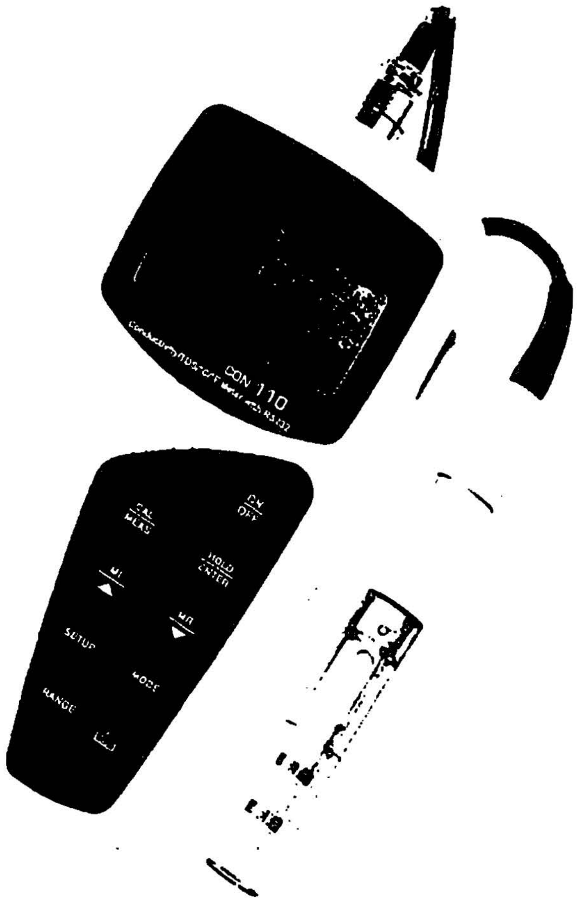
Large Screen Testers	pHTestr 10	pHTestr 20	pHTestr 30	pHTestr 10BNC	pHTestr

Attachment Four (Continued

Instruction Manual

CON 11 & CON 110

Handheld Conductivity/TDS/Temperature/RS232C Meter



OAKTON®

EUTECH INSTRUMENTS
Technology Made Easy...

68X361303
Rev. 2 - 01/04

ISO 9001

Attachment Four (Continued)

Preface

This manual serves to explain the use of the CON 11/110 Conductivity/TDS handheld meters. It functions as a handy reference step by step guide to help you operate the meter. It is written to cover as many anticipated application of the CON 11/110 meters as possible. If there are doubts in the use of the meter, please do not hesitate to contact the nearest Authorised Distributor.

Eutech Instruments / Oakton Instruments cannot accept any responsibility for damage or malfunction of the meter caused by improper use of the instruments.

The information presented in this manual is subjected to change without notice as improvements are made, and does represent a commitment on the part of Eutech Instruments Pte Ltd / Oakton Instruments.

Rev 2 - 01/04

Attachment Four (Continued)

Table of Contents

Attachment Four (Continued)

Attachment Five

Black and Associates
Environmental Consultants, Inc.

Mason Brothers Wood Preserving, Inc.

Project Log

Project: RCRA Compliance Well Sampling Date: 08/15/2022
Time started: 0706 Wind speed: 0 direction: 190
Temperature: 75°F Cloud cover: Clear
Time ended: 1633 Wind speed: 8 direction: 200
Temperature: 100°F Cloud cover: Clear
Personnel: JJB

CW/PZ Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	13.45	0.85	16.17	7.36 --------- 7.43	37.0 ------- 37.9	1.899 ------------ 1.428	08152022 B 1145-1200
PZ-5	19	0.85	30.14	7.08 --------- 7.01	25.6 ------- 25.2	2.550 ------------ 2.584	08152022 E 1350-1400
PZ-9	18.53	0.21	17.29	6.91 ---------	25.1 -------	3.710 ------------	1045
CW-2	19.60	0.85	32.98	6.80 --------- 6.72	27.3 ------- 23.8	3,040 ------------ 5,110	08152022 A 1250-1300
Field Blank		2.06		6.25	36.2	7.04	08152022 C 1542-1612
Trip Blank		0.85		6.05	38.3	14.72	08152022 D 0830

BAEC & MBWP PH 4, 7, & 10 OK 0745-0805

BAEC & MBWP Conductivity 447,1413, and 2764 OK 0805-0829

PZ-9 only contained 6 oz. of water and therefore not enough for testing for Pentachlorophenol and Naphthalene.

Appendix B

Chemical Storage Contingency Plan

and

Oil Spill Prevention Control and Countermeasure Plan

CHEMICAL STORAGE CONTINGENCY PLAN

For

Since 1948

Mixon Brothers Wood Preserving, Inc.

Located at

1202 NW 16th Street
P.O Box 327
Idabel, Oklahoma 74745

September 29, 2014

Description of Waste Handled:

RQ, Hazardous Waste Liquid,
(Groundwater Only) K001
Material is not flammable or explosive

Maximum volume of waste on site:	**15 gallons**
Maximum volume produced per month	**293 gallons**

EMERGENCY RESPONSE CONTACTS

LOCAL

Fire Department

Name: Idabel Fire & Police Department
Address: 207 S. Central
Phone #: (580)286-7577

Ambulance Service

Name: Idabel EMS
Address: 207 S. Central
Phone #: (580)286-7584

Sheriff's Department

Name: Idabel Police Dept.
Address: 207 S. Central
Phone #: (580)286-6554

Hospital

Name: Idabel Municipal Hospital
Address: 1301 Lincoln Road
Phone #: (580)286-7623

*STATE

Oklahoma Dept. of Environmental Quality

Name: Land Protection Division
Address: P.O. Box 1677
Oklahoma City, OK 73101-1677
Phone #: (405)702-5100
Spill Reporting Hotline #: (800)522-0206

*FEDERAL

Environmental Protection Agency Region 6

Name: Steve Mason (6SF-R)
Address: 1445 Ross Ave, Suite 1200
Phone #: (214)665-6428
Information (800)887-6063

EPA National Reporting Center#:
(800)424-8802

Arrangements with Sheriff's Department

By contacting one of the Emergency Coordinators access to the site can be obtained. Unless the emergency equipment specified in this plan is employed do not allow any contact with the waste.

Arrangements with the Fire Department

Material is not flammable or explosive.

Absorb the liquid using clay, lime, sand, soda ash, or sawdust, it should not enter any sewer and/ or contaminated ground water. Where possible, do not wash the solid waste away.

Arrangements with Local Hospital

It is extremely unlikely of exposer by inhalation and/or ingestion. Contact dermatitis can result if skin contact is made of either liquid and/or solid waste. In such conditions standard medical treatment is acceptable.

The content in waste will be creosote.

Wash with water for 15 minutes for eye contact. Induce vomiting if swallowed. Treat for creosote exposure.

Emergency Response - Hazardous Waste Spill

The spillage will immediately be contain upon discovery by an employee. Report it immediately to a member of management.

Contact the designated Emergency Coordinator will be done by a member of management.

The following information will be obtained by the emergency coordinator:

1. the material spilled
2. location of spillage of hazardous material
3. an estimate of quantity released
4. any injuries involved
5. the area contaminated by the spillage

The coordinator will assess the magnitude and seriousness of the spillage based on the information obtained. The Emergency Coordinator will contact and deploy the necessary personnel if the incident is within the capabilities of the company's emergency response organization.

The Emergency Coordinator will contact the appropriate agencies if the accident is beyond plant capabilities. A list of agencies and phone numbers is shown in the Contingency Plan.

The waste should contain no free liquid if a spill occurs in the hazardous waste areas, but in the event that liquid is present, the absorbent material located in the hazardous waste storage area should be used to build a dike around the spill.

The material should be placed in 17H DOT drums after the waste is dry and additional sufficient absorbent. Mark drums with hazardous waste labels. Mark drum label the accumulation start date.

If the spillage comes from a leaking hazardous waste drum, then the drum should be placed by forklift in an 80-gallon recovery drum, the completed hazardous waste label including accumulation start date.

In the emergency operation only those persons involved will be allowed within the designated hazard area. The area will be roped and/or otherwise blocked off, if possible.

The curbing and slope should prevent any waste leaving the pad area, if the spillage occurs on the concrete drip pad. Re-use in the CCA process after washing any free liquid into the sump. Place any solid waste into a 17H DOT approved drums. The drip pad has been totally cleaned must be ensured by the Emergency Coordinator.

The Emergency Coordinator will designate the personnel to preform the clean-up. Removal of all non-essential personnel from the hazard area.

Contamination of all material during the clean-up operation must be placed in drums for proper disposal. The responsibility for ensuring this is done by the Emergency Coordinator.

Furthermore, the Emergency Coordinator must reassure that, in the affected area of the plant:

A. **No waste that may be incompatible with the released material is treated, stored or disposed of until clean-up procedures are completed.**

B. **All emergency equipment is clean and conditioned for its intended use before operations are resumed.**

The Operations Manager or his designee must:

A. **Notify the Regional Administrator and appropriate state and local authorities in the event that the local emergency services have been required, or the spill has occurred which has extended outside the plant area that the plant is in compliance with paragraphs (a) and (b) above before operations are resumed in the affected area of the plant.**

B. **The time, date and details of any incident that required implementation of the contingency plan must be noted in the operating records by the Operation Manager or his designee. He must submit a written report on the incident within 15 days after the incident to the Regional Administrator including:**

1. **Name, address and phone number of the company and plant.**
2. **Date, time and type of accident.**
3. **Name and quantity of materials involved.**
4. **Extent of injuries, if any.**
5. **Assessment of actual or potential hazards to human health or the environment.**
6. **Estimated quantity and disposition of recovered material resulting from the incident.**

The responsibility for the following items are also the Operations Manager:

Employee Training

An introductory course in hazardous waste management and annual reviews thereafter, per parameter set forth in 40 CFR 265.16, will be given to employees working in areas containing hazardous waste. The established company training program will be used.

Records

Plant Supervisor's office, Operations Manager's office, and all emergency coordinator's files will have a copy of this contingency plan in corporate files.

This contingency plan will be revised for amendment:

A. **When applicable regulations are revised.**
B. **When plan fails in an emergency.**
C. **When situation in the plan change which increase the potential for release of waste.**
D. **When the list of emergency coordinators changes.**
E. **When the list of emergency equipment changes.**

HAZARDOUS WASTE STORAGE

EMERGENCY EQUIPMENT LISTING

A. Communication System. Telephone is located in office.

B. Eye wash Stations - Safety Showers. In the hazardous waste storage area should be one commercial brand eyewash bottle.

C. Respirators. With the appropriate filter cartridge, all operators have NIOSH approved half-face respirators.

D. Fire Suppression. The location of fire extinguishers in waste storage area should be posted. Office, plant, and peelers

E. First Aid. The location of the First Aid Box and is maintained in the office.

F. Personal Protective Equipment. When handling hazardous waste all operators wear rubber gloves, rubber boots, goggles and/or helmets with splash shields. There are spares available.

G. Spill Control. To make temporary dikes and soak up liquids oil dry and absorbent clay is available.

H. Inspection of Storage Area and Waste Container. To ensure all safety equipment is available and to confirm the integrity of all containers weekly inspections are made.

FIRE AND SPILL CONTROL

Plant Fire Marshall: Bob Mixon-Secretary. At the first signs of a fire, the supervisor is notified and the fire is put out. If we cannot handle (refer to "security of facility).

Spill Containment Provisions

All storage tanks will be located in diked containment areas.
The capacity of the dikes will be able to hold the volume of the largest tank plus any accumulated rain water.

To prevent any accidental release from dike containment without drains, spills may only be removed by pumping. Spill contents from the dikes should be returned to the process, but may be disposed in a federally approved hazardous waste disposal site.

Above ground is all transfer piping.

So, that overflows do not occur during filling operations one man is assigned to supervise the operations.

Spill Containment and Disposal

1. **Contain the spill immediately.**
2. **To make temporary barriers use absorbent materials. Supplies of absorbent materials are located in the office.**
3. **Any non-plumbable liquid absorb with absorbent material.**
4. **For disposal transfer the sludge to appropriate D.O.T.-approved 55-gallon drums.**
5. **Spills are not to be washed into the storm drains.**
6. **All leaks and spills are to be reported to the supervisor.**

Inspections

Operations and plant management will inspect the equipment daily.

Issued Date: 11/12/2012

MATERIAL SAFETY DATA SHEET

Dual (Cellutreat® + QNAP®) Treated Wood

Health Emergencies: CHEMTREC® (800) 424-9300

SECTION 1 - PRODUCT & COMPANY INFORMATION

MANUFACTURER: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
(800) 264-0870

COMMERCIAL PRODUCT TRADE NAME: eTie®; ePole®; eLumber®
DESCRIPTION: Preservative treated wood

SECTION 2 – INGREDIENTS INFORMATION

Wood Fiber; Disodium Octaborate Tetrahydrate, Copper Naphthenate

SECTION 3 – HEALTH HAZARD INFORMATION

PLEASE NOTE THAT THIS INFORMATION IS BASED ON THE MATERIAL USED TO TREAT THE WOOD AND INCLUDES HAZARDS ASSOCIATED WITH WOOD DUST GENERATED FROM SAWING, SANDING, ROUTING OR CHIPPING. THESE HAZARDS ARE ESSENTIALLY THE SAME AS FOR UNTREATED WOOD.

Treated Wood:
- Airborne wood dust can cause respiratory, eye and skin irritation.
- Breathing wood dust primarily from hardwood, has been associated with nasal cancer in some studies.
- High airborne dust levels can be an explosion hazard when exposed to an ignition source
- Use with adequate ventilation and/or respiratory protection.

Common Name	Chemical Name	CAS #	%	OSHA PEL	ACGIH TLV
Inorganic borate; DOT	Disodium Octaborate Tetrahydrate	12280-03-4	0.5 – 1.0	N/E**	N/E
Copper Naphthenate	Naphthenic Acid, cupric salt*	1338-02-9	0.05-4.0	N/E	1.0 mg/m³***
Petroleum Hydrocarbon	Fuel Oil	68476-30-2	0.01-20	N/E	N/E
Natural Wood Fiber	Wood, Natural (all species)	N/A	75-85	5.0 mg/m³	5.0 mg/m³

Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372) requires that certain toxic chemicals be identified. Any such chemicals contained in this product are listed in Section 2 and are identified by an asterisk (*). OSHA's Hazard Communication (Standard 29CFR 1910.1200) requires hazardous chemicals to be listed and the MSDS to identify the hazards associated with the product. This information must be included in all MSDS's that are copied and distributed for this product.
***Not established, classified or listed*
****as copper dust/mists only (as Cu)*

HMIS HAZARD RATINGS:
Health Hazard: 1
Fire Hazard: 1
Reactivity: 0
Protection: B (glasses and gloves)

SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES

PRIMARY ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation

EYES: IMMEDIATELY with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention if irritation persists.
SKIN CONTACT: Brush or shake material off clothes and shoes in a well-ventilated area. Allow clothes to ventilate well before laundering. Do not leave contaminated clothes in a confined area such as automobiles, vans, motel rooms, etc. Wash with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing and decontaminate footwear before reuse. Rinse skin free of material to avoid abrasion before washing. Seek medical attention if irritation persists
INGESTION: NEVER induce vomiting or give anything by mouth to an unconscious person. Keep airway clear. Promptly drink large quantities of milk or water. Seek medical attention IMMEDIATELY.
INHALATION: Persons administering first aid to overexposure victims should carefully wash off any visible product from the victim's face. Do not give anything by mouth to an unconscious person. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Seek medical attention.

SECTION 5 - FIRE & EXPLOSION DATA

FLASH POINT: >200°F TCC
FLAMMABLE LIMITS IN AIR (LEL): 40 grams /m³ for wood dust
SUITABLE FIRE FIGHTING EXTINGUISHING MEDIA: Foam, carbon dioxide, water spray, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH-approved, self-contained breathing apparatus and full protective clothing. Cool exposed containers with water.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Dust (powder) may form an explosive mixture in air

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
SMALL SPILL: Not applicable.
LARGE SPILL: Not applicable.
WASTE DISPOSAL METHODS: Follow all applicable federal, state, and local regulations for disposal of a waste material. Treated wood should not be burned in open fires, stoves, fireplaces, or residential boilers because toxic chemicals may be produced as part of the smoke and ashes. Treated wood from commercial applications may be burned only in industrial incinerators or boilers in accordance with state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

Observe good personal hygiene practices. Change protective gloves/clothing when signs of contamination appear. Keep out of reach of children.

Wash thoroughly after skin contact and before eating, drinking, use of tobacco products, or using restrooms.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION REQUIREMENTS: Ventilate via mechanical methods (general or local exhaust) to maintain exposure below TLV(s), if applicable. Good industrial hygiene practice dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.
RESPIRATORY: None normally required if good ventilation is maintained. Use a MSHA/NIOSH approved dust high efficiency filter respirator when sawing or machining treated wood.
EYE: Safety glasses, goggles, or face shield. Do not wear contact lenses.
GLOVES: Wear industrial type gloves.
OTHER PROTECTIVE EQUIPMENT: None normally required. Use as necessary to prevent exposure.
USE SITE PRECAUTIONS: Do not use treated wood inside residences. Do not use treated wood for cutting boards or countertops. Do not use treated wood for construction of beehives that may come into contact with the honey.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Greenish-blue/grey/light brown to natural color of wood.
BOILING POINT (Initial): N/A
DENSITY (Lbs/Ft³) (Water @20°C=62.4: 24-52
VAPOR PRESSURE (mm Hg): N/A
EVAPORATION RATE (n-Butyl Acetate=1): N/A
SOLUBILITY IN WATER: Insoluble
VAPOR DENSITY (Air=1): N/A

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable.
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY: Strong acids, open flame.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release oxides of carbon, nitrogen, sulfur, and hydrogen chloride.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

SECTION 11 - TOXICOLOGY

EYES: Can cause irritation, transient corneal injury, and blurred vision. Treated or untreated wood dust may cause mechanical irritation.
INGESTION: Acute Toxicity (Rat) LD_{50} = Greater than 5000 mg/kg. Eating treated sawdust or wood may cause mouth, throat, and stomach irritation, nausea, vomiting, and diarrhea. Avoid using treated wood under circumstances where the preservatives may become a component of food or animal feed.
INHALATION: Breathing of dust from dried product or wood dust from sawing can cause irritation of nasal and respiratory passages, and can produce dryness of the nasal passages, dry cough, and headaches.
SKIN: May cause skin irritation or rash on prolonged or repeated contact with freshly treated wood. Wood dust(s), of certain species can elicit allergic contact dermatitis in sensitized individuals.
CHRONIC HEALTH HAZARDS: Wood dust(s), depending on the species, may cause allergic contact dermatitis with prolonged, repeated contact, and respiratory sensitization after prolonged exposure to elevated dust levels.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Wood dust may aggravate preexisting respiratory conditions or allergies.
LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY: None for product. See Section 3 regarding components.
UNTREATED WOOD DUST OR SAWDUST: Epidemiological studies have been reported on carcinogenic risks of employment in the furniture-making industry, the carpentry industry, and the lumber and sawmill industry. The International Agency on Research of Carcinogens (IARC) has reviewed these studies and reports that there is sufficient evidence that nasal carcinomas have been caused by employment in the furniture-making industry where the excess risk is associated with exposure to untreated wood dust or sawdust from softwood and hardwood species. The IARC concluded that epidemiological data are sufficient to make a direct linkage between wood dust exposure and a rare form of nasal cancer.
Toxicological Data for Non-Wood Ingredients: Copper Naphthenate acute oral toxicity (LD_{50}): 1897 mg/kg [Mouse]. DOT acute oral toxicity (LD_{50}): 2,550 mg/kg [Rat]. DOT acute dermal toxicity (LD_{50}): >2,000 mg/kg [Rabbit].

SECTION 12 - ECOLOGICAL INFORMATION

This product is not believed to be dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulative potential, aquatic toxicity and other data relating to ecotoxicity. Naturally breaks down in the environment.

SECTION 13 - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHODS: Follow all applicable Federal, State and local regulations for disposal of a waste material. Treated wood should not be burned in open fires, stoves, fireplaces or residential boilers because of toxic chemicals may be produced as a part of the smoke and ashes. Treated wood may only be burned only in industrial incinerators or boilers in accordance with State and Federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Shipping Information is not available for this product.
This product is classified for transportation purposes as follows:
IATA (air) – No
IMO (Water) – No
DOT (Land) - No

SECTION 15 - REGULATORY INFORMATION

EPA registration numbers (preservative components) : 64405-13 (DOT-MU) and 64405-17 (QNAP8 MU) or 64405-14 (QNAP5W MU).

DOT Hazard Classification: Not Regulated

SECTION 16 - OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall manufacturer be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if manufacturer has been advised of the possibility of such damages.

Buyers and users of this product are responsible for all loss of damage from use or handling of this product which results from conditions beyond the control of seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in the Directions for Use of this product, weather conditions, moisture conditions or other environmental conditions, and those conditions which are outside of the ranges that are generally recognized as being conductive to good industrial practice.

Nisus CORPORATION

100 Nisus Drive • Rockford, TN 37853 USA • (800) 264-0870

OIL SPILL PREVENTION CONTROL

and

COUNTERMEASURE PLAN

(SPCC)

For

Since 1948

Mixon Brothers Wood Preserving, Inc.

Located at

1202 NW 16th Street
P.O Box 327
Idabel, Oklahoma 74745

September 29, 2014

I. Purpose

This plan is established to prevent the accidental release of oil from the facility into nearby streams or groundwater, as specified in 40 CFR 110-13.

II. Oil Storage Area Information

1. One (1) 500 gallons diesel tank
2. Four (4) 20,000 gallons and One (1) 10,000 gallons Copper Naphthenate (CAS Number 1338-02-9) tanks
3. All tanks are above ground and the tanks are surrounded by a concrete block containment dike with a spill containment sump.

III. Fueling Procedures

1. One person will be assigned to supervise filling operations. The person will ensure tanks are not overfilled by checking tank levels prior to and during filling.
2. Filling supervisor will placed a warning sign in front of the tractor cab driver's door, reminding to check loading lines are disconnected before leaving.
3. All lines will be blown free of oil by compressed air before maintenance work is performed
4. Loading lines will be capped when not in use.
5. Any sight glass valves will be kept in the "off" position when not in use.
6. Tank weld seams, pipe fittings, flanges and valves will be visually inspected during each filling operation. Any leaks or spills will be reported immediately to the Emergency Coordinator.
7. Vehicular traffic will be prohibited in areas of oil transfer lines.

IV. SECURITY

1. No outlet valves or permanent sump pumps are on the containment dikes and are covered.

2. When not in use the oil pump starter control will be locked in the off position.

3. For after dark operations the area is properly lit. For night-time spill or leak detection the lighting is adequate.

V. PERSONNEL TRAINING

Instruction in the operation and maintenance of oil handling equipment and the rules, regulations and procedures as outlined in this plan for all new personnel. There will be annual training provided to them and other employees involved in oil handling and spill prevention measures.

VI. EMERGENCY COORDINATORS

A list of primary and secondary coordinators in the "Hazardous Waste Contingency Plan". The authorization they have to commit the facility resources necessary to carry out this plan.

VII. REPORTABLE QUANTITIES

The exact quantity of oil spilled, that is to be reported to governing agencies, is not been determined as of this writing. The specified regulations by the federal is only " a film or sheen upon or discoloration of the surface of the water..."

SPILL CONTROL AND COUNTERMEASURES

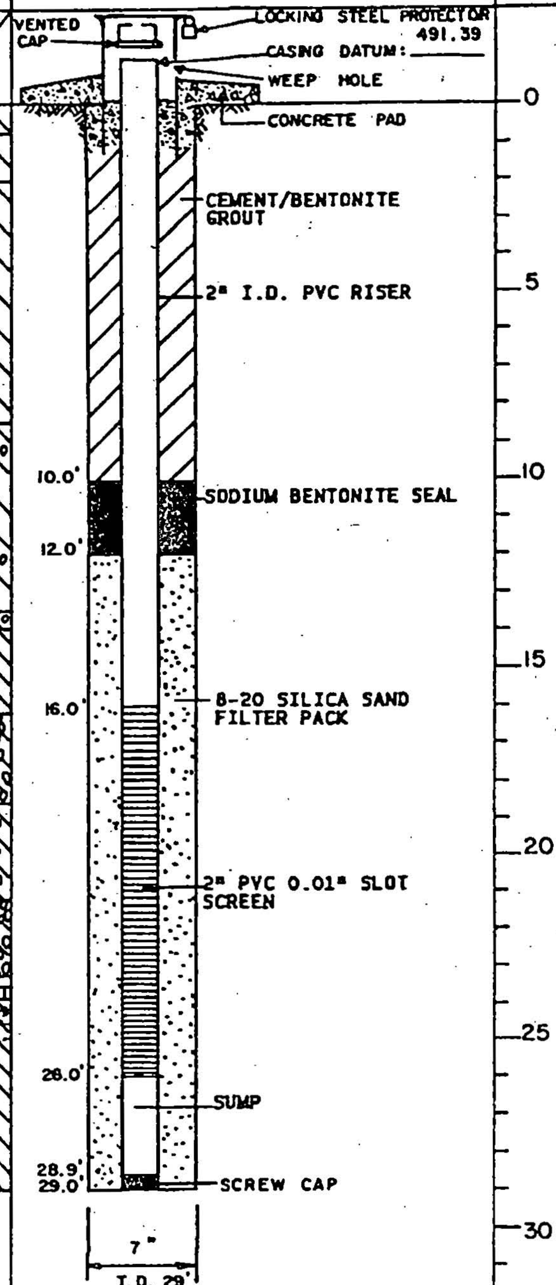
Location	Potential Chemical	Equipment Committed	Personnel

Appendix C

Monitor Well Logs
and
Multi-Purpose Completion Reports

GEOL. UNIT	DEPTH (Feet)	DESCRIPTION	USC	SAMPLE INTERVAL	"N" VALUE	GRAPHIC LOG
	0	GROUND SURFACE : 488.30				
	0.9		CL	3.8	0	
	0.9–2.0	SILTY CLAY: DARK GRAY BROWN, 2.5 y4/2, MOIST, 5% ORGANICS, 30% SILT, 65% CLAY	CH			
▽ 1-11-88	2.0–5	SILTY CLAY: BROWN-YELLOW, 6/6, MOIST, HIGH PLASTICITY, Fe NODULES (2%), 5% ORGANICS, 20% SILT, 73% CLAY			5	
	5–8.6	SILTY CLAY: LIGHT GRAY 10 yr 7/1, Fe OXIDE NODULES (2%), MOIST, MED. PLASTICITY, 20% SILT, 75% CLAY, Mn OXIDE NODULES (2%) BELOW 7.1'.	CL	5.0		
	8.6–13.6	GRAVELLY SILTY CLAY: YELLOW BROWN 10 yr 5/8, LIGHT GRAY MOTTLING, MOIST STIFF, Mn AND Fe OXIDE NODULES (10%), 20% SILT, 70% CLAY	CL	5.0	10	
	13.6–14.0	CLAYEY GRAVEL: YELLOW 10 yr 6/8, 60% LIMESTONE GRAVEL, 40% CLAY	GC			
	14.0–16.2	CLAY: YELLOW OLIVE GRAY 5y 6/2, STRATIFIED, MOIST, MED. PLASTICITY	CL		15	
	16.2–18.7	CLAYEY GRAVEL: BROWN-YELLOW 10yr 6/8, 60% FOSSILIFEROUS LIMESTONE AND CHERT GRAVEL, 40% CLAY, VERY MOIST	GC	5.0	CME SAMPLER	
	18.7–21.3	GRAVELLY CLAY: BROWN YELLOW 10yr 6/8, STRATIFIED, MOIST, MEDIUM PLASTICITY, 40% LIMESTONE AND CHERT GRAVEL, 60% CLAY	CL	2.7	20	
	21.3–23.3	CLAYEY GRAVEL: BROWN-YELLOW 10yr 6/8, 60% FOSSILIFEROUS LIMESTONE GRAVEL, 40% CLAY (WEATHERED LIMESTONE)	GC			
	23.8–25	LIMESTONE: GRAY, MASSIVE, FOSSILIFEROUS, MICRITIC		2.0	25	
	25–29.0	CLAY: BLACK, STRATIFIED, VERY MOIST, HIGH PLASTICITY, MINOR (2%) GYPSUM (WEATHERED SHALE)	CH	1.0	27 / 29	
	29.0					
	30	BOREHOLE TERMINATED AT 29.0'.				
	35	NO VISUAL SOIL DISCOLORATION OBSERVED.				
		*SLICKENSIDED SURFACES WET.				

WELL COMPLETION DETAIL



Legend	
CME CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)
STANDARD PENETRATION TEST	L LABORATORY TEST LOCATION
UNDISTURBED SAMPLE	+ PENETROMETER, (TONS/FT.^{2})
WATER TABLE (24 HOURS)	

WELL NUMBER	PZ - 1
JOB NUMBER	87014
DATE DRILLED	10-19-87
DRILLING METHOD	HSA-CME SAMPLER
DRILLED BY	SHEPHERD ENGR.
LOGGED BY	M.T.
CHECKED BY	BJS
PAGE	1 OF 1

ROBERTS/SCHORNICK & ASSOCIATES, INC.
Environmental Consultants
860 Copperfield Drive · Suite A
Norman, Oklahoma 73072
405-321-3895

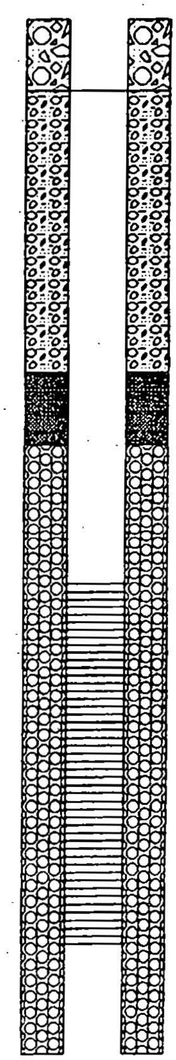
RSA FORM 9/87

BLACK & ASSOCIATES
ENVIRONMENTAL CONSULTANTS, INC.

MONITOR WELL NUMBER:	MONITOR WELL LOG
Mixon PZ-1	

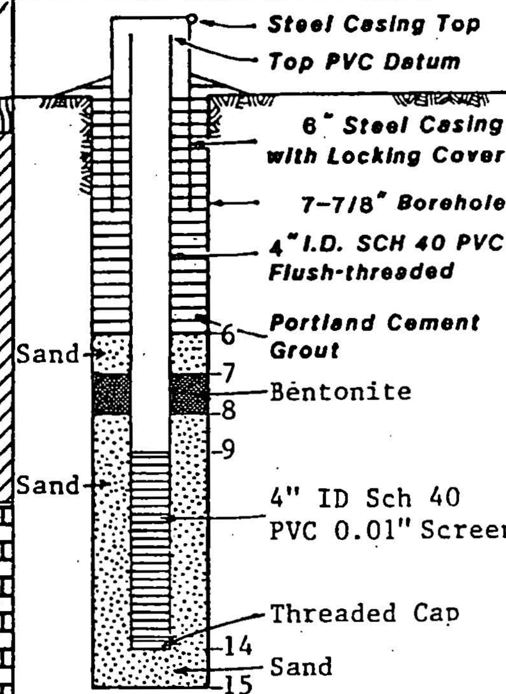
PROJECT NAME: Mixon Brothers Wood Preserving, Inc.
LOCATION: SENWNW 31-7S-24E (McCurtain County)
RIG TYPE & METHOD:
DATE BEGAN:
DATE COMPLETED:
TOTAL DEPTH: 29.0 FEET
GROUND SURFACE ELEVATION: 488.30
SHEET: 1 OF 1

SAMPLE INTERVAL	DEPTH (FEET)	REMARKS: Inside 2" I.D. PVC Screen & Riser; Sodium Bentonite Seal (29.0' - 11'); Cement grout (12' - 1'); Compacted uncontaminated soil (1' - 0'). LITHOLOGY DESCRIPTION	LITHOLOGY	WELL COMPLETION DATA
	0	Compacted unconotominated soil		
	1	Cement grout		
	5			
	10			
	11	Sodium Bentonite granules		
	15			
	20			
	25			



Elev. (Feet)	Depth (Feet)	Description	USC	Sample Interval	% Recovery	Graphic Log
	0	Ground Surface				
	0–0.9	CLAY: brown, silty clay loam mottled, damp, plastic, abundant roots.	CL-ML	NO 2		
	0.9–10.3	CLAY: brownish-gray to reddish-gray, mottled, silty and sandy clay with up to 8% subrounded gravel, roots not present below about 5', common black FeO-MnO concretions in lower soil horizon.	CL	NO 4; NO 6; NO 8; NO 10		
	10.3–18.3	LIMESTONE: White, gray, and brownish-gray, fine to medium crystalline, massive to argillacious, fossiliferous lime, wackestone; upper 5.5' weathered, interval from 10.3 to 11.5 is clayey gravel with limestone fragments.	LS	NO 11.5; 16.5	100%	
	18.3–33.5	SHALE: Grayish-green to green, homogenous, shale with horizontal partings less than 0.25", fissile, trace of pyrite, sparce occurrence of fossils at base, basal zone slighty calcareous. Thin lime wackestone beds from 22'6" - 22'7" and 28'1"-28'3".	SH	21.5; 27; 32	55%; 0%; 72%; 97%	
	33.5–	LIMESTONE: Brownish-gray, fine- to medium-crystalline, argillacous fossiliferous lime wackestone, individual beds are 3" to 5" thick separated by shale partings; very argillacious intervals from 35'4"-35'6"; 36'4"-37'3"; and 39'6"-39'9".	LS	37; 40	90%; 86%	

Well Completion Detail



Boring Terminated @ 15'

NOTES:

A) Evidence of water staining down to 17 feet.

B) No saturated zones were observed in this well.

C) 0'-0.9' A Soil horizon
0.9'-10.3' B Soil Horizon

ROBERTS/SCHORNICK & ASSOCIATES
P.O. Box 1522 • 31E S Peters, Suite 220
Norman, Oklahoma 73070
405•321 - 3895

Monitoring Well Record PZ-2

Location Mixon Brothers, Idabel, Oklahoma

Coordinates

Installation Date 01/07/86 to 01/09/86

Drilled By Winnek   Logged By RLH

Elev. (Feet)	Depth (Feet)	Description	USC	Sample Interval	% Recovery	Graphic Log	Well Completion Detail	Depth (Feet)
	40 – 41.2	SHALE: Green shale.	SH					40
	41.2 – 61.5 (45, 50, 55, 60)	LIMESTONE: Brownish-gray to gray, fine- to medium-crystalline, massive to argillacous, fossiliferous lime wackestone, rare styolites, common wavy, irregular shale partings. Shales and very argillaceous limestones occur at intervals from: 42'5"-42'8"; 43'-43'5"; 44'-44'1" 44'6"-45'1"; 46'-46'4"; 47'1" - 47'9"; 48'3"-50'; 42'6"-55'; and 56'2"-60'.	LS	45, 50, 55, 60	98%, 100%, 98%, 92%			45, 50, 55, 60
	61.5 – 80 (65, 70, 75, 80)	SHALE: Gray-green to dark green shale, horizontal partings less than 0.25 inches, homogeneous, trace of pyrite; fossils in upper 3" (calcareous).	SH	65, 70, 75, 80	55%, 92%, 97%, 93%			65, 70, 75, 80

ROBERTS/SCHORNICK & ASSOCIATES
P.O. Box 1522 • 3:6 S Peters, Suite 220
Norman, Oklahoma 73070
405 • 321 - 3895

Monitoring Well Record PZ-2

Location Mixon Brothers, Idabel, Oklahoma

Coordinates

Installation Date 01/07/86 to 01/09/86

Drilled By Winnek Logged By RLH

Elev. (Feet)	Depth (Feet)	Description	USC	Sample Interval	% Recovery	Graphic Log	Well Completion Detail	Depth (Feet)
	80	SHALE: Green shale	SH					80
	81.2	LIMESTONE: Brownish-gray, fine to medium-crystalline, fossiliferous lime wackestone.	LS	85	85%			
	84.9 / 85	SHALE: Green shale.	SH		62%			85
	87.8 / 90	LIMESTONE: Brownish-gray to gray, fine- to medium-crystalline massive to argillacous, fossiliferous lime wackestone, rare styolites.	LS	95				90
	94.2 / 95	SHALE: Gray-green to dark green shale with horizontal parting less than 0.25 inches thick.	SH	97.5				95
	100			100				100
				102.5				
	105			105				105
				107.5				
	110			110				110
				112.5				
	115			115				115
				117.5				
	120			120				120

ROBERTS/SCHORNICK & ASSOCIATES
P.O. Box 1522 • 3.E S Peters, Suite 220
Norman, Oklahoma 73070
405•321 - 3895

Monitoring Well Record PZ-2

Location Mixon Brothers, Idabel, Oklahoma

Coordinates

Installation Date 01/07/86 to 01/09/86

Drilled By Winnek Logged By RLH

Elev. (Feet)	Depth (Feet)	Description	USC	Sample Interval	% Recovery	Graphic Log	Well Completion Detail	Depth (Feet)
	120	SHALE: Green shale.	SH	122.5				120
	123	LIMESTONE: Gray to brownish gray, fine- to medium-crystalline fossiliferous lime wackestone.	LS	125				125
	125			127.5				
	130			130				130
				132.5				
	135			135				135
	136.5	SHALE: Green shale.	SH	137.5				
				140				
	140	SHALE AND LIMESTONE: interbedded green shale and lime wackestone.	SH-LS	142.5				140
	142.5	SHALE: Green shale.	SH	145				
	145	LIMESTONE: Gray fossiliferous lime wackestone.	LS	147.5				145
	147.5	SHALE: Green shale.	SH	150				
	150	Boring Terminated @ 150'						150

ROBERTS/SCHORNICK & ASSOCIATES
P.O. Box 1552 • 3.E S Peters, Suite 220
Norman, Oklahoma 73070
405•321 - 3895

Monitoring Well Record PZ-2

Location Mixon Brothers, Idabel, Oklahoma

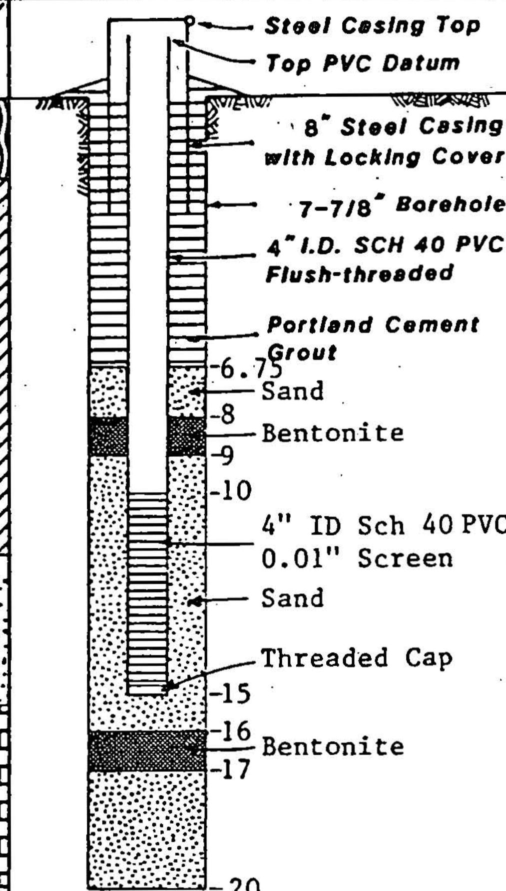
Coordinates

Installation Date 01/07/86 to 01/09/86

Drilled By Winnek Logged By RLH

Elev. (Feet)	Depth (Feet)	Description	USC	Sample Interval	% Recovery	Graphic Log
		Ground Surface				
	0–2.0	CLAY: Dark brown, silty clay loam, orange-brown, mottled, abundant roots, damp, plastic, trace gravel.	CL-ML	NO 2	80%	
	2.0–10.5	CLAY: Brownish-gray to reddish-gray, mottled, silty and sandy clay, subrounded gravel up to 10%, damp, plastic, common black FeO-MnO concentrations up to ½".	CL	NO 4	45%	
				NO 6	75%	
				NO 8	85%	
				NO 10	70%	
	10.5–11.5	CLAY: Gray clay weathered lime wackestone with fossils.		NO 11.5	100%	
	11.5–15.3	CLAYEY GRAVEL: weathered limestone, gray to orange-gray mottled clayey gravel with common fossil and angular limestone fragments; clay occurs between limestone gravel.	GC	Continuous Core		
	15.3–20	LIMESTONE: Light gray to brownish-gray, fine- to medium-crystalline, massive to argillacious fossiliferous lime wackestone; a thin green shale bed occurs @ 17'2" to 17'8".	LS	Continuous Core		
	20	Boring Terminated @ 20'				

Well Completion Detail



NOTES:

No saturated zones were observed; water staining noted in interval from 15.3 to 17.3 feet.

ROBERTS/SCHORNICK & ASSOCIATES
P.O. Box 1532 • 3_1E S Peters, Suite 220
Norman, Oklahoma 73070
405•321 - 3895

Monitoring Well Record PZ-3

Location Mixon Brothers, Idabel, Oklahoma

Coordinates

Installation Date 01-10-86

Drilled By Winnek   Logged By RLH

GROUND SURFACE : 488.79

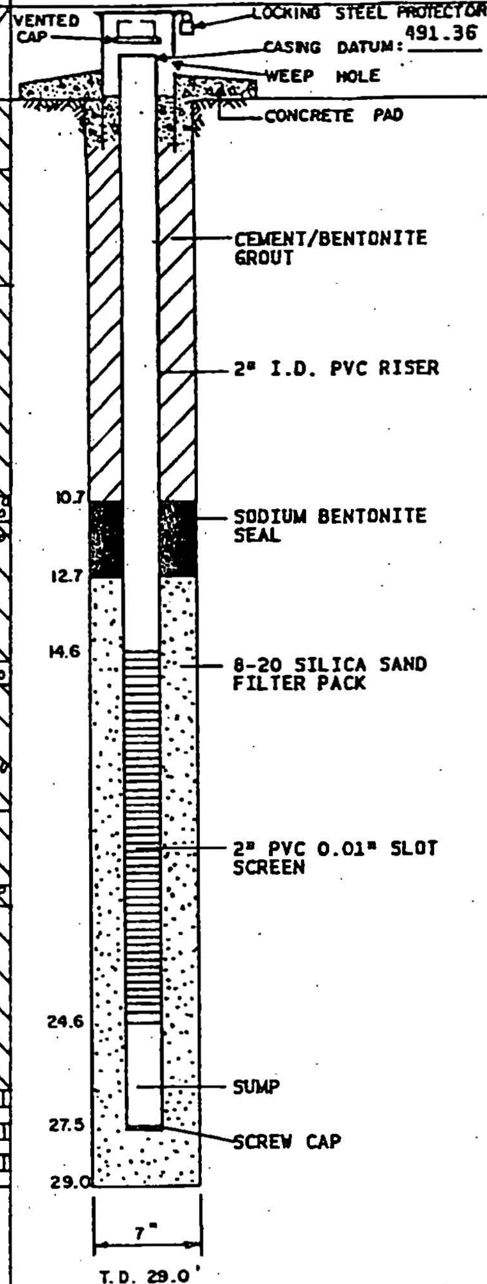
GEOL. UNIT	DEPTH (Feet)	DESCRIPTION	USC	SAMPLE INTERVAL	"N" VALUE
	0 – 1.9	SILTY CLAY: DARK BROWN 10yr 3/3, STIFF, NON-STRATIFIED, MED. PLASTICITY, 10% ORGANICS, 30% SILT, 60% CLAY	CL	0 – 5 (4.0)	
	1.9 – 5	SILTY CLAY: LIGHT GRAY 10yr 7/1, YELLOW RED MOTTLING, HIGH PLASTICITY, NON-STRATIFIED, 5% ORGANICS, 20% SILT, 75% CLAY	CH		
1-11-88 (water table)	5 – 10.8	SILTY CLAY: LIGHT BROWNISH-GRAY 10yr 6/2, MOTTLED WITH BROWNISH-YELLOW 10yr 6/8, Mn AND Fe OXIDE NODULES, SOME CHERT GRAVEL, HIGH PLASTICITY, (WEATHERED LIMESTONE) 5% GRAVEL, 15% SILT, 80% CLAY, VERY MOIST.	CL - CH	5 – 10 (5.0)	
	10.8 – 11.3	GRAVELLY CLAY: LIGHT GRAY 10yr 6/8, WITH BROWN YELLOW MOTTLING, CHERT AND LIMESTONE GRAVEL (40%), 60% CLAY, MOIST	CL	10 – 15 (3.0)	
	11.3 – 19.0	SILTY CLAY: LIGHT GRAY 10yr 7/1, MOTTLED WITH BROWNISH-YELLOW 10yr 6/8, CHERT GRAVEL 16.3' - 16.6', SLICKENSIDED FROM 15' - 19', BECOMES BLOCKY FROM 11.3' - 19.0', 10% GRAVEL, 15% SILT, 75% CLAY, COLOR CHANGE AT 15' TO OLIVE GRAY 10yr 5/6, (WEATHERED LIMESTONE), VERY MOIST.	CL - CH / CL / CL - CH	15 – 20 (5.0)	CME SAMPLER
	19.0 – 21.5	SILTY CLAY: LIGHT OLIVE GRAY 5y 6/2, MOTTLED WITH YELLOW BROWN 10yr 5/6, PARTINGS PRESENT, HIGH PLASTICITY, 10% SILT, 90% CLAY, VERY MOIST (WEATHERED SHALE) CHERTY GRAVEL 21-21.5'	CH / CL	20 – 25 (2.5)	
	21.5 – 26.5	SILTY CLAY: LIGHT OLIVE GRAY 5y 6/2, MOTTLED WITH YELLOWISH BROWN 10yr 5/6, HIGH PLASTICITY, VERY MOIST, 10% SILT, 90% CLAY BLOCKY, PARTINGS PRESENT, MINOR GYPSUM AT 25' TO 26.5' (WEATHERED SHALE)	CH	25 – 27 (2.0)	
	26.5 – 29.0	LIMESTONE: WHITE 2.5 yn-8, MASSIVE, FOSSILIFEROUS, DRY		27 – 29 (1.0)	NX CORE 50% REC.

BOREHOLE TERMINATED AT 29.0'

NO VISUAL SOIL DISCOLORATION OBSERVED.

NOTE: SLICKENSIDED SURFACES WET. DRY 48 HRS. FOLLOWING WELL COMPLETION.

WELL COMPLETION DETAIL



CME CONTINUOUS AUGER SAMPLER	WATER TABLE (TIME OF BORING)
STANDARD PENETRATION TEST	LABORATORY TEST LOCATION
UNDISTURBED SAMPLE	+ PENETROMETER, (TONS/FT.^{2})
WATER TABLE (24 HOURS)	

WELL NUMBER PZ - 4

JOB NUMBER 87014

DATE DRILLED 10-19-87
DRILLING METHOD HSA-CME SAMPLER
DRILLED BY SHEPHERD ENGR.
LOGGED BY BJS
CHECKED BY MT
PAGE 1 OF 1

ROBERTS/SCHORNICK & ASSOCIATES, INC.
Environmental Consultants

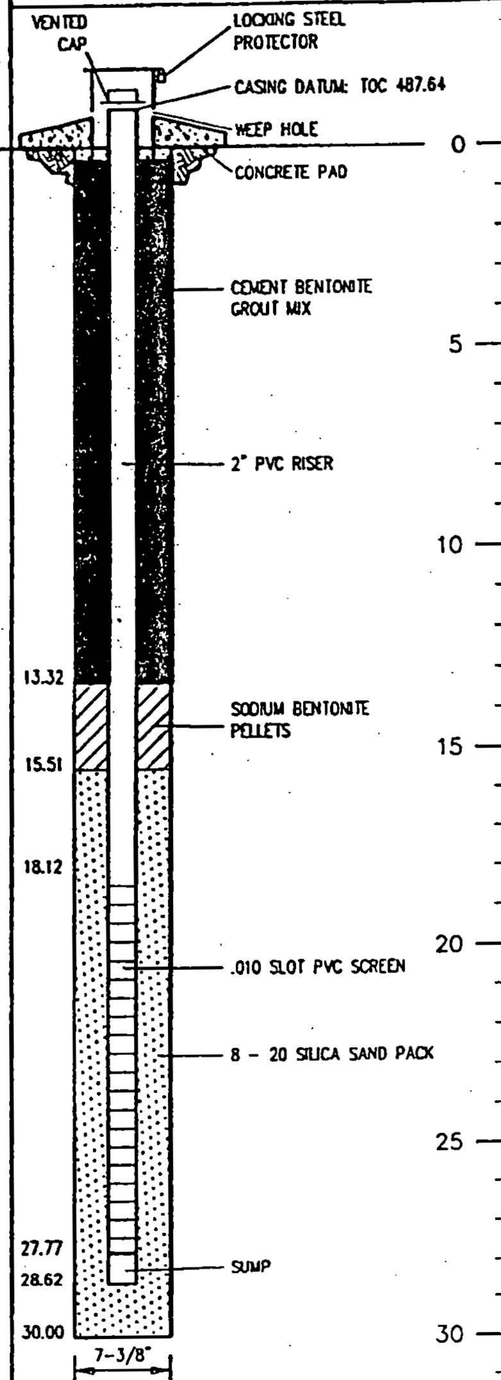
RSA FORM 9/87

WELL COMPLETION RECORD

GROUND SURFACE: 486.12

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	UNIFIED SOIL CLASSIFICATION	SAMPLE	INTERVAL	"N" VALVE
0	SILTY CLAY: 60% CLAY, 30% SILT, 10% ORGANIC, WET, MEDIUM PLASTIC, BROWN TO DARK GRAY 5Y4/3	OL	1	2.9	
0.8	SILTY CLAY: 70% CLAY, 20% SILT, 10% ORGANIC, LIGHT BROWN TO DARK YELLOW MOTTLED, 10YR3/2 TO 10YR4/3, SOME RED IRON STAINING, BLACK ORGANIC MATTER AND ROOTS, MEDIUM TO HIGH PLASTIC, MOIST, NON-STARTIFIED, MODERATLY FIRM TO STIFF	OH	2		
			NR		
5			3	5.0	
6.8	SILTY CLAY: VARIGATED BROWN TO YELLOW 2.5Y6/6 TO 2.5Y7/8, 70% CLAY, 30% SILT, BLACK IRON NODULES (1/4 INCH) THROUGHOUT, HIGH PLASTIC, STIFF, MOIST	CL	4		
			5		
10 / 10.2	CLAYEY LIMESTONE GRAVEL: 40% LIMESTONE GRAVEL, 40% CLAY, 20% SILT, MOTTLED BLACK TO GRAY WHITE, BROWN, GRAVEL 1/8 TO 1" IN DIAMETER, LIMESTONE GRAVEL IS SUBROUND, CLAY MATRIX HAS HIGH PLASTICITY, SLIGHTLY MOIST	GC	6	5.0	
11.8	SLIGHT SILTY CLAY: VARIGATED GRAY AND ORANGE/BROWN, 2.5Y7/0 AND 2.5Y7/8, STIFF, MOIST, VERY FINE SANDY LENSES, 70% CLAY, 20% SILT, 10% SAND	CH	7		
			8		
15 / 14.8	CLAYEY LIMESTONE GRAVEL: DENSE, MICRO CRYSTALINE, ANGULAR TO SUBROUND LIMESTONE GRAVEL, BROWN CLAY	GC			
15.1		CH	9	2.4	
17.4	SILTY CLAY: 80% CLAY, 20% SILT, BROWN TO OLIVE BROWN, 2.5Y5/6, HIGH PLASTIC, MEDIUM STIFF TO STIFF, MOIST	CH	NR		
	SILTY GRAVELLY CLAY: BROWN 10YR5/6, 70% CLAY, 20% SILT, 10% LIME GRAVEL, HIGH PLASTIC, STIFF, MOIST, SCATTERED SUBROUNDED LIMESTONE GRAVEL 1/4" IN DIAMETER				
20			10	0.6	
			NR		
25 / 24.8	LIMESTONE: LIGHT GRAY TO GRAY, 7.5YR7/0 TO 7.5YR6/0, MEDIUM CRYSTALINE, HARD TO DENSE, SLIGHTLY SHALEY, MICRO FOSSILIFEROUS	LIMESTONE	11	0.6	
25.6	SILTY GRAVELLY CLAY: 70–80% CLAY, 20–30% SILT, 5–15% LIMESTONE GRAVEL, BROWN TO REDDISH BROWN, 10YR5/8 TO 7.5YR4/6, SILTY, SOME SCATTERED LIMESTONE GRAVEL IMBEDDED, STIFF, MEDIUM PLASTIC, MOIST	CH	NR		
28.5	LIMESTONE: LIGHT GRAY TO GRAY, 7.5YR7/0 TO 7.5YR6/0, MEDIUM CRYSTALINE, HARD TO DENSE, SLIGHTLY SHALEY, MICRO FOSSILIFEROUS	LIMESTONE			
30	TOTAL DEPTH 30.0'				
	BOREHOLE OVM READING = 0.1 ppm				
35	GROUNDWATER NOT ENCOUNTERED DURING DRILLING				

WELL COMPLETION DETAIL



CME CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HOURS)
WATER TABLE (TIME OF BORING)
LABORATORY TEST LOCATION
PENETROMETER (TONS/SQ. FT.)

JOB NAME/NUMBER *MIXON BRO.'s/ 92004.01*

BORING NUMBER *PZ-5 (BH-1)*

DATE DRILLED 1-27-92
DRILLING METHOD HSA
DRILLED BY PSI
LOGGED BY SCP
CHECKED BY DHC
DRAWN BY: REC

PAGE 1 OF 1

ROBERTS/SCHORNICK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS
3700 W. ROBINSON
NORMAN, OKLAHOMA 73072
(405) 321-3895

BLACK & ASSOCIATES
ENVIRONMENTAL CONSULTANTS, INC.

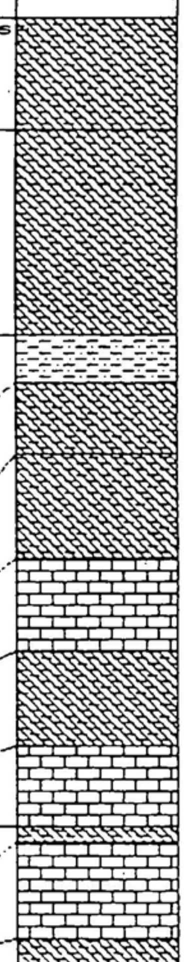
MONITOR WELL NUMBER: PZ-6

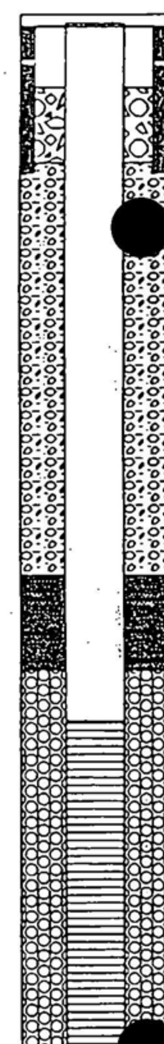
MONITOR WELL LOG

PROJECT NAME Mixon Brothers Wood Preserving, Inc.
LOCATION NENWNW 31-7S-24E (East of Surface Impoundment HWM unit)
RIG TYPE & METHOD Auger, hollow stem
DATE BEGAN 07/27/95
DATE COMPLETED 07/27/95
TOTAL DEPTH 30 FEET
GROUND SURFACE ELEVATION 485
SHEET 1 OF 1

REMARKS:
BOREHOLE DIAMETER: 8.25 (0-TD); SCREEN (0.02")
CASING: 2" Schedule Stainless steel;
CEMENT: Concrete (2-+0.4'); 5% Bent. + Portland Cement (2-15'); Bentonite Pellets (15-18')

SAMPLE INTERVAL	DEPTH (FEET)	LITHOLOGY DESCRIPTION	LITHOLOGY	WELL COMPLETION DATA
	0	Sl. moist gray (10YR 5/1) w/ stringers of yellowis brown (10YR 5/6) SILTY CLAY w/ some calcareous gravel and very fine sand at base. plastic and non calcareous		
	5	Sl. moist yellowish brown (10YR 5/4) w/ some light gray (10YR 6/1) @ base SILTY CLAY w/mod amount of gravel (1.5 cm) and mod amount of sand (fine @ top and v coarse @ base), plastic and non calcareous @ top to sl. calcareous @ base		
	10	Moist yellowish brown (10YR 5/8) interbedded w/white (10YR 8/1) SILTY SAND, fine to med and poorly sorted, interbedded w/ fossilized limestone (3.5 cm) and gravel (2 cm), friable and calcareous		
	15	Sl. moist dark gray (10YR 4/1) interbedded w/ w/yellowish brown (10YR 5/8) SILTY CLAY w/ some fine sand and limestone (5 cm) @ -12'-12.5', mod plastic and friable w/ limestone and calcareous		
		Sl. moist brownish yellow (10YR 6/6) w/ some black organic area @ 14' SILTY CLAY w/ small amount of fine sand, plastic and sl. calcareous to calcareous @ base		
		V. sl. moist brownish yellow (10YR 6/8) fossilized LIMESTONE w/ sand and gravel. sl. friable and calcareous		
	20	Sl. moist dark gray (10YR 4/1) interbedded w/ yellowish brown (10YR 5/8) SILTY CLAY w/ some fine sand and limestone. friable and calcareous		
		Moist light gray (10YR 6/1) LIMESTONE w/ some friable gravelly coarse sand and calcareous		
	25	V. sl. moist brownish yellow (10YR 6/6) and gray (10YR 6/1) SILTY CLAY. sl. plastic and calcareous		
		V. sl. moist gray (10YR 5/1) fossilized LIMESTONE AND calcareous		
	30	V. sl. moist gray (10YR 5/1) SILTY CLAY w/ some fine sand. sl. plastic and calcareous		





/

BLACK & ASSOCIATES
ENVIRONMENTAL CONSULTANTS, INC.

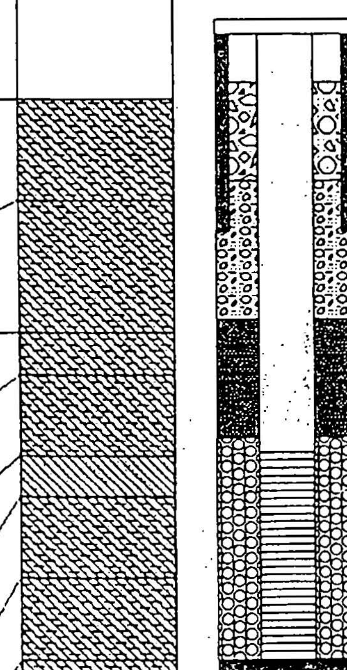
MONITOR WELL NUMBER: PZ-7

MONITOR WELL LOG

PROJECT NAME: Mixon Brothers Wood Preserving, Inc.
LOCATION: NENWNW 31-7S-24E (Southeast of Surface Impoundment HWM unit)
RIG TYPE & METHOD: Auger
DATE BEGAN: 05/23/95
DATE COMPLETED: 05/23/95
TOTAL DEPTH: 14.25 FEET
GROUND SURFACE ELEVATION:
SHEET: 1 OF: 1

REMARKS:
BOREHOLE DIAMETER: 6"(0-TD); SCREEN (0.02")
CASING: 2" Schedule Stainless steel;
CEMENT: Concrete (2-+0.4'); 5% Bent. + Portland Cement (2-5.42'); Bentonite Pellets (5.42-8.25')

SAMPLE INTERVAL	DEPTH (FEET)	LITHOLOGY DESCRIPTION	LITHOLOGY	WELL COMPLETION DATA
	0	Sli moist light olive green (2.5YR 5/4) to moist grayish brown (2.5YR 5/2) at the base SILTY CLAY w/a small amount of med to coarse poorly sorted sand; plastic and non calcareous to sli calcareous at base.		
		Sli moist light brownish gray (2.5YR 6/2) at top to moist gray (2.5YR 6/0). SILTY CLAY w/small amount of 0.5 cm gravel in the middle and at the base. plastic and non calcareous.		
	5	Moist light gray (2.5YR 7/0) SILTY CLAY, w/some very coarse poorly sorted sand; plastic and non calcareous.		
		Moist gray (10YR 6/0); SILTY CLAY, w/small amount of med to coarse poorly sorted sand; plastic and non calcareous.		
	10	Moist gray (10YR 6/0) and yellowish brown (10YR 5/6); fine SANDY CLAY w/black (10YR 6/1) roots; plastic, and non calcareous.		
		Very moist to saturated brownish yellow (10YR 6/6); SILTY CLAY. plastic and non calcareous.		
	15	Sli moist brownish yellow (10YR 6/6); SILTY CLAY; plastic and non calcareous.		
		Moist gray (10YR 6/1); SILTY CLAY w/small amount of non calcareous gray (10YR 6/1), limestone and dark brown (10YR 3/3) calcareous gravel; plastic and non calcareous.		
	20	Moist gray (10YR 6/1) LIMESTONE; very sli friable and non calcareous.		



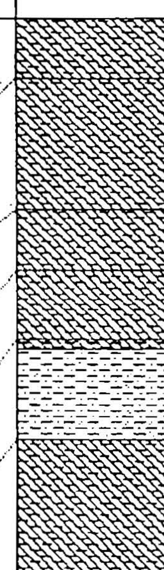
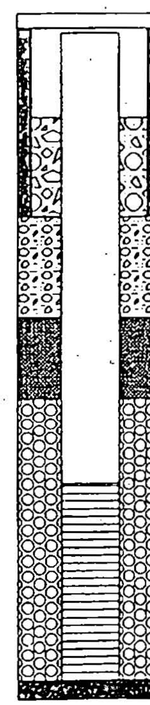
BLACK & ASSOCIATES
ENVIRONMENTAL CONSULTANTS INC.

MONITOR WELL NUMBER:

PZ-8

MONITOR WELL LOG

PROJECT NAME: Mixon Brothers Wood Preserving, Inc.
LOCATION: NENWNW 31-7S-24E (Southeast of Surface Impoundment HWM unit)
RIG TYPE & METHOD: Hollow Stem Auger
DATE BEGAN: 10/4/95
DATE COMPLETED: 10/4/95
TOTAL DEPTH: 13.5 FEET
GROUND SURFACE ELEVATION: 483.85 (TIC 486.72)
SHEET: 1 OF 1

SAMPLE INTERVAL	DEPTH (FEET)	REMARKS / LITHOLOGY DESCRIPTION	LITHOLOGY	WELL COMPLETION DATA
		REMARKS: BOREHOLE DIAMETER: 6.25" (0-TD); SCREEN (0.01"); CASING: 2" Schedule Stainless steel; CEMENT: Concrete (2-+0.46'); 5% Bent. + Portland Cement (2-4.5'); Bentonite Pellets (4.5-6.5')		
	0	Sli moist light olive green (2.5YR 5/4) to moist grayish brown (2.5YR 5/2) at the base SILTY CLAY w/a small amount of med to coarse poorly sorted sand, plastic and non calcareous to sli calcareous at base		
		Sli moist light brownish gray (2.5YR 6/2) at top to moist gray (2.5YR 6/0), SILTY CLAY w/small amount of 0.5 cm gravel in the middle and at the base, plastic and non calcareous		
	5	Moist light gray (2.5YR 7/0) SILTY CLAY, w/some very coarse poorly sorted sand, plastic and non calcareous		
		Moist gray (10YR 6/0), SILTY CLAY, w/small amount of med to coarse poorly sorted sand, plastic and non calcareous		
	10	Moist gray (10YR 6/0) and yellowish brown (10YR 5/6), fine SILTY SAND w/black (10YR 6/1) roots, plastic, and non calcareous		
		Sli moist brownish yellow (10YR 6/6) and gray (10YR 6/1), SILTY CLAY w/small amount of non calcareous gray (10YR 6/1) limestone and dark brown (10YR 3/3) calcareous gravel, plastic and non calcareous		
	15	Dry gray (10YR 6/1) and light red (2.5YR 6/6), LIMESTONE, very sli friable and non calcareous		
	20			

BLACK & ASSOCIATES
ENVIRONMENTAL CONSULTANTS INC.

MONITOR WELL NUMBER:
PZ-9

MONITOR WELL LOG

PROJECT NAME: Mixon Brothers Wood Preserving, Inc.
LOCATION: NENWNW 31-7S-24E (Southeast of Surface Impoundment HWM unit)
RIG TYPE & METHOD Hollow Stem Auger
DATE BEGAN 10/4/95
DATE COMPLETED 10/4/95
TOTAL DEPTH 14.5 FEET
GROUND SURFACE ELEVATION 484.39 (TIC 487.33)
SHEET 1 OF 1

SAMPLE INTERVAL | DEPTH (FEET)

REMARKS:
BOREHOLE DIAMETER: 6.25"(0-TD); SCREEN (0.01")
CASING: 2" Schedule Stainless steel;
CEMENT: Concrete (2-+0.41'); 5% Bent. + Portland Cement (2-5.5'); Bentonite Pellets (5.5-8')

LITHOLOGY DESCRIPTION

LITHOLOGY | WELL COMPLETION DATA

0

Sli moist light olive green (2 5YR 5/4) to moist grayish brown (2 5YR 5/2) at the base SILTY CLAY w/a small amount of med to coarse poorly sorted sand, plastic and non calcareous to sli calcareous at base

Sli moist light brownish gray (2 5YR 6/2) at top to moist gray (2 5YR 6/0), SILTY CLAY w/small amount of 0 5 cm gravel in the middle and at the base, plastic and non calcareous

5

Moist light gray (2 5YR 7/0) SILTY CLAY, w/some very coarse poorly sorted sand, plastic and non calcareous

Moist gray (10YR 6/0), SILTY CLAY, w/small amount of med to coarse poorly sorted sand, plastic and non calcareous

10

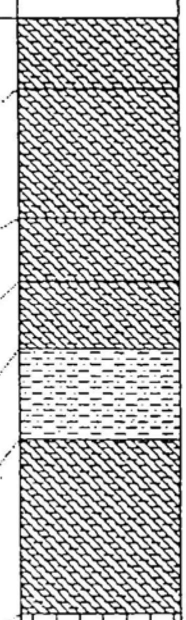
Moist to very moist yellowish brown (10YR 5/6), fine SILTY SAND w/black (10YR 6/1) roots, plastic, and non calcareous

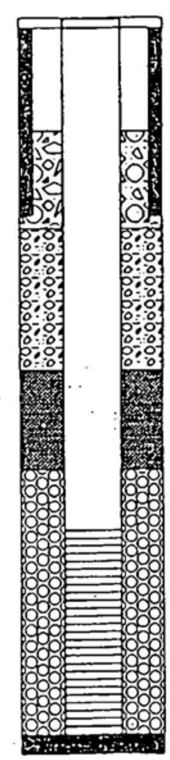
Sli moist brownish yellow (10YR 6/6) and gray (10YR 6/1), SILTY CLAY w/small amount of non calcareous gray (10YR 6/1) limestone and dark brown (10YR 3/3) calcareous gravel, plastic and non calcareous

15

Dry gray (10YR 6/1) and brownish yellow (10YR 6/6), LIMESTONE, very sli friable and non calcareous

20





BLACK & ASSOCIATES
ENVIRONMENTAL CONSULTANTS INC.

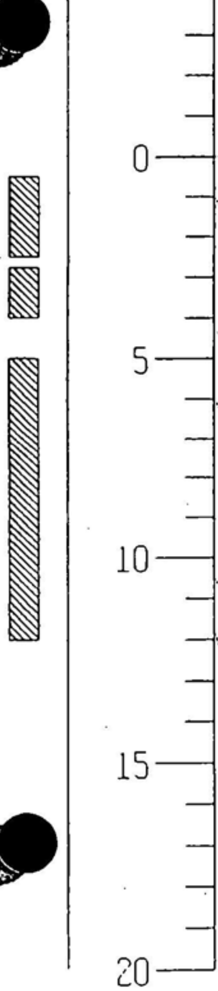
MONITOR WELL NUMBER:	MONITOR WELL LOG
PZ-10	

PROJECT NAME Mixon Brothers Wood Preserving, Inc.
LOCATION NENWNW 31-7S-24E (Southeast of Surface Impoundment HWM unit)
RIG TYPE & METHOD Hollow Stem Auger
DATE BEGAN 10/4/95
DATE COMPLETED 10/4/95
TOTAL DEPTH 13.5 FEET
GROUND SURFACE ELEVATION 484.3 (TIC 487.22)
SHEET 1 OF 1

SAMPLE INTERVAL | DEPTH (FEET) | REMARKS / LITHOLOGY DESCRIPTION | LITHOLOGY | WELL COMPLETION DATA

REMARKS:
BOREHOLE DIAMETER: 6.25" (0-TD); SCREEN (0.01")
CASING: 2" Schedule Stainless steel;
CEMENT: Concrete (2-+0.41'); 5% Bent. + Portland Cement (2-4'); Bentonite Pellets (4-6')

LITHOLOGY DESCRIPTION



Sli moist light olive green (2.5YR 5/4) to moist grayish brown (2.5YR 5/2) at the base SILTY CLAY w/a small amount of med to coarse poorly sorted sand, plastic and non calcareous to sli calcareous at base

Sli moist light brownish gray (2.5YR 6/2) at top to moist gray (2.5YR 6/0), SILTY CLAY w/small amount of 0.5 cm gravel in the middle and at the base, plastic and non calcareous

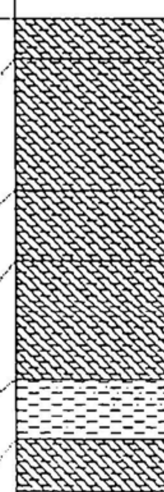
Sli moist light gray (2.5YR 7/0) SILTY CLAY, w/some very coarse poorly sorted sand, plastic and non calcareous

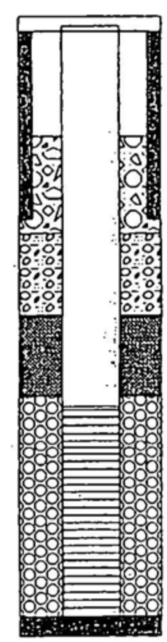
Moist gray (10YR 6/0), SILTY CLAY, w/small amount of med to coarse poorly sorted sand, plastic and non calcareous.

Moist yellowish brown (10YR 5/6), fine SILTY SAND w/black (10YR 6/1) roots, plastic, and non calcareous

Sli moist brownish yellow (10YR 6/6) and gray (10YR 6/1), SILTY CLAY w/small amount of non calcareous gray (10YR 6/1), limestone and dark brown (10YR 3/3) calcareous gravel, plastic and non calcareous

Dry gray (10YR 6/1) and brownish yellow (10YR 6/6), LIMESTONE, very sli friable and non calcareous





MULTI-PURPOSE COMPLETION REPORT

OKLAHOMA WATER RESOURCES BOARD
600 N HARVEY AVE., P.O. BOX 150
OKLAHOMA CITY, OK 73101-0150

Please Plot Well Location

☐ Ten Acres

← One Mile →

LEGAL DESCRIPTION

DO NOT WRITE IN THIS SPACE
____ 1/4 ____ 1/4 ____ 1/4 of Sec. 31 Twp. 7S Rge. 24E

County McCurtain Well No: CW-1

Well Owner Mixon Bros. Wood Preserving, Inc. Phone 580 286-9494

Address P.O.B X 327, Idabel, Zip 74745

Finding Location approx 110' NE of PZ-5

TYPE OF WORK

☒ Geotechnical Boring ☐ Groundwater Heat Pump Well ☒ Monitoring Well ☐ Fresh Water Obs. Well ☐ Site Assessment Obs. Well ☐ Plugging ☐ Reconditioning ☐ Groundwater Well Test Hole ☐ Groundwater Well ☐ De-watering ☐ Other:

GROUNDWATER WELL PERMITTED USE

☐ Domestic* (No Permitting Required) ☐ Non-Domestic: (OWRB Permitting Required) Specify Purpose(s)

NOTE: If this groundwater well is for other than domestic use*, provide OWRB Groundwater Permit No:

*Domestic Use is use of water for household purposes or for farm and domestic animals up to the normal grazing capacity of the land and for the irrigation of land not to exceed three (3) acres.

DRILLING METHOD

☐ Hand Auger ☐ Cable Tool ☐ Air Rotary ☐ Fluid Rotary ☒ H.S. Auger ☐ S.S. Auger ☐ Rev. Rotary ☐ D.W. Rev. Rotary ☐ Other:

NEW BORING OR WELL CONSTRUCTION DATA

Date: Started 7-6-99 Date: Completed 7-8-99

Operator Jerry J. Black Operator No. OP-0020

Type of Construction: ☐ Open Hole ☒ Cased Hole ☐ Temporary ☒ Permanent

Hole Diameter 13 3/4" inches From 0 feet to 18.5 feet

Hole Diameter 6 5/8" inches From 17.5 feet to 30' feet

SURFACE CASING RECORD:

Surface Casing Diameter 4"x4"x56" +4" cap inches From -2.01 feet to +2.65 feet

CASING RECORD:

Well Casing Diameter 8" inches From 0 feet to -18.53 feet

Well Casing Diameter 2" inches From 20 feet to +2.67 feet

SCREEN OR PERFORATION RECORD:

Type and Slot Size 0.01 stainless steel From 19.67 feet to 29.67 feet

Type and Slot Size ____ From ____ feet to ____ feet

FILTER PACK:

Type and Size silica sand 10/20 From 30' feet to 17.5 feet

Type and Size ____ From ____ feet to ____ feet

SEAL:

Cement Grout Surface Seal Installed? ☒ Yes ☐ No

Type of Surface Seal concrete From 0 feet to 2' feet

Type of Annular Seal Portland Cement w/6% bent From 2' feet to 15.5 feet

Type of Filter Pack Seal bent 1/4-1/2 chips 6% bent From 15.5 feet to 17.5 feet

TYPE OF COMPLETION: ☒ Above Ground ☐ Flush Mounted ☐ Pitless Adapter

SURFACE PAD: Size: 3 feet x 3 feet x 4 inches

PLUGGING DATA

☐ Non-Contaminated ☐ Contaminated Date Plugged

Backfilled From ____ feet to ____ feet Type ____

Grouted From ____ feet to ____ feet Type ____

Cement Grouted From ____ feet to ____ feet Tremied? ☐ Yes ☐ No

RECONDITIONING WORK

Replaced Casing/Screen From ____ feet to ____ feet

Deepened Well From ____ feet to ____ feet

Redeveloped Well by ____

LITHOLOGIC LOG

MATERIAL	ENCOUNTERED FROM FEET	ENCOUNTERED TO FEET	INDICATE SATURATION
Brown silty loam	0	3.5	Dry
Brn grey, Red, yellow and yellowish clay	3.5	12.25	dry
	12.25	15.5	Moist
white, yellow + ~~yellowish~~ silt + ~~limestone~~	15.5	22	sl. moist
yellowish brn clay	22	24	Dry
yellowish brn + yellow silt	24	28	Dry, sl. moist
Gray limestone	28	30	
Brn + yellowish brn clay			

HYDROLOGIC DATA

First Water Zone Encountered 12.25 feet Approximate Yield 1.5 gal/day ~~GPM~~ Flowing Artesian? ☐ Yes ☒ No

Measured Water Level 29.15 feet below land surface. After Drilling 7-19-99 hours

WELL LOCATION

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient.)

Distance approx 175 feet from type or source closed impoundment

Elevation of source from well. ☐ Up-gradient ☐ Level ☒ Down-gradient

Has this well been disinfected after completion of work? ☐ Yes ☒ No

If this well is a replacement well, has old well been abandoned properly? ☐ Yes ☐ No ☒ Not a replacement well

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Name Jerry J. Black DPC No. 0015

Address 1908 W. Boyd Norman, OK 73069 Phone 405 360-2852

[signature] SIGNATURE Date 8-29-99

MULTI-PURPOSE COMPLETION REPORT

OKLAHOMA WATER RESOURCES BOARD
600 N HARVEY AVE., P.O. BOX 150
OKLAHOMA CITY, OK 73101-0150

Please Plot Well Location

☐ Ten Acres

← One Mile →

31

LEGAL DESCRIPTION

DO NOT WRITE IN THIS SPACE

___1/4 ___1/4 ___1/4 of Sec. 31 Twp. 7S Rge. 24E

County: McCurtain — Well No: CW-2

Well Owner: Nixon Bros. Wood Preserving, Inc. — Phone: 580 286-9494

Address: P.O. Box 327, Idabel — Zip: 74745

Finding Location: 140' ESE of PZ-5.

TYPE OF WORK

☒ Geotechnical Boring
☐ Groundwater Heat Pump Well
☒ Monitoring Well
☐ Fresh Water Obs. Well
☐ Site Assessment Obs. Well
☐ Plugging
☐ Reconditioning
☐ Groundwater Well Test Hole
☐ Groundwater Well
☐ De-watering
☐ Other:

GROUNDWATER WELL PERMITTED USE

☐ Domestic* (No Permitting Required)
☐ Non-Domestic: (OWRB Permitting Required) Specify Purpose(s) ______

NOTE: If this groundwater well is for other than domestic use*, provide OWRB Groundwater Permit No: ______

*Domestic Use is use of water for household purposes or for farm and domestic animals up to the normal grazing capacity of the land and for the irrigation of land not to exceed three (3) acres.

DRILLING METHOD

☐ Hand Auger
☐ Cable Tool
☐ Air Rotary
☐ Fluid Rotary
☒ H.S. Auger
☐ S.S. Auger
☐ Rev. Rotary
☐ D.W. Rev. Rotary
☐ Other:

NEW BORING OR WELL CONSTRUCTION DATA

Date: Started 7-6-99 — Date: Completed 7-8-99

Operator: Jerry J. Black — Operator No. OP-0020

Type of Construction: ☒ Open Hole ☒ Cased Hole ☐ Temporary ☒ Permanent

Hole Diameter 13" inches From 0 feet to 18.5 feet

Hole Diameter 6 5/8" inches From 17.5 feet to 30 feet

SURFACE CASING RECORD:

Surface Casing Diameter 4"x4"x56" (4 1/4" cap) inches From -1.56 feet to +2.75 feet

CASING RECORD:

Well Casing Diameter 8" inches From 0 feet to -18.36 feet

Well Casing Diameter 2" inches From -~~20~~ 19.55 feet to +2.76 feet

SCREEN OR PERFORATION RECORD:

Type and Slot Size 0.01 stainless steel From 19.55 feet to 29.55 feet

Type and Slot Size ______ From ______ feet to ______ feet

FILTER PACK:

Type and Size silica 10/20 sand From 30' feet to 17.5 feet

Type and Size ______ From ______ feet to ______ feet

SEAL:

Cement Grout Surface Seal Installed? ☒ Yes ☐ No

Type of Surface Seal: Concrete From 0 feet to 2 feet

Type of Annular Seal: Portland cement w/6% bent From 15.5 feet to 2 feet

Type of Filter Pack Seal: bent. chips 1/4-1/2 From 15.5 feet to 17.5 feet

TYPE OF COMPLETION: ☒ Above Ground ☐ Flush Mounted ☐ Pitless Adapter

SURFACE PAD: Size: 3 feet x 3 feet x 4" inches

PLUGGING DATA

☐ Non-Contaminated ☐ Contaminated — Date Plugged ______

Backfilled From ______ feet to ______ feet — Type ______

Grouted From ______ feet to ______ feet — Type ______

Cement Grouted From ______ feet to ______ feet — Tremied? ☐ Yes ☐ No

RECONDITIONING WORK

Replaced Casing/Screen From ______ feet to ______ feet

Deepened Well From ______ feet to ______ feet

Redeveloped Well by ______

LITHOLOGIC LOG

MATERIAL	ENCOUNTERED FROM FEET	ENCOUNTERED TO FEET	INDICATE SATURATION
Brn silty loam	0	2.5	Dry
Yellowish-brn silty clay	2.5	12	sl. moist
gray & brnish yellow silt interbedded w/ limestone	12	13.5	v. moist
Brown & gray clay	13.5	23	sl. moist
brn, yellowish brn & w/ silt	23	25.75	sl. Moist
Gray limestone	25.75	28	Dry
Brn clay	28	30	sl. moist

HYDROLOGIC DATA

First Water Zone Encountered 12 feet   Approximate Yield 6.0 GPM day   Flowing Artesian? ☐ Yes ☒ No

Measured Water Level 12.88 feet below land surface.   After Drilling 7-19-99 hours

WELL LOCATION

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient.)

Distance approx 250' feet from type or source closed impoundments

Elevation of source from well. ☐ Up-gradient ☐ Level ☒ Down-gradient

Has this well been disinfected after completion of work? ☐ Yes ☒ No

If this well is a replacement well, has old well been abandoned properly? ☐ Yes ☒ No ☐ Not a replacement well

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Name Jerry J. Black   DPC No. 0015

Address 1908 W. Boyd, Norman, OK 73069   Phone 405 360-2852

SIGNATURE   Date 8-29-99

MULTI-PURPOSE COMPLETION REPORT

OKLAHOMA WATER RESOURCES BOARD
600 N HARVEY AVE., P.O. BOX 150
OKLAHOMA CITY, OK 73101-0150

Please Plot Well Location

☐ Ten Acres

One Mile

31

LEGAL DESCRIPTION

DO NOT WRITE IN THIS SPACE

____ 1/4 ____ 1/4 ____ 1/4 of Sec. 31 Twp. 7 S Rge. 24E

County McCurtain Well No: CW-3

Well Owner Nixon Brothers Wood Preserving Phone 580 286-9494

Address P.O. Bx 327, Idabel Zip 74745

Finding Location approx 230' SSE of PZ-5

TYPE OF WORK

☒ Geotechnical Boring
☐ Groundwater Heat Pump Well
☒ Monitoring Well
☐ Fresh Water Obs. Well
☐ Site Assessment Obs. Well
☐ Plugging
☐ Reconditioning
☐ Groundwater Well Test Hole
☐ Groundwater Well
☐ De-watering
☐ Other:

GROUNDWATER WELL PERMITTED USE

☐ Domestic* (No Permitting Required)
☐ Non-Domestic: (OWRB Permitting Required) Specify Purpose(s)

NOTE: If this groundwater well is for other than domestic use*, provide OWRB Groundwater Permit No: ____

*Domestic Use is use of water for household purposes or for farm and domestic animals up to the normal grazing capacity of the land and for the irrigation of land not to exceed three (3) acres.

DRILLING METHOD

☐ Hand Auger
☐ Cable Tool
☐ Air Rotary
☐ Fluid Rotary
☒ H.S. Auger
☐ S.S. Auger
☐ Rev. Rotary
☐ D.W. Rev. Rotary
☐ Other:

NEW BORING OR WELL CONSTRUCTION DATA

Date: Started 7-6-99 Date: Completed 7-8-99

Operator Jerry J. Black Operator No. OP-0020

Type of Construction: ☒ Open Hole ☒ Cased Hole ☐ Temporary ☒ Permanent

Hole Diameter 13" inches From 0 feet to 18 feet

Hole Diameter 10 5/8" inches From 17 feet to 30' feet

SURFACE CASING RECORD: +4½" cap

Surface Casing Diameter 4"x4"x56 inches From -2.07 feet to +2.60' feet

CASING RECORD:

Well Casing Diameter 8" inches From 0 feet to 17.4 feet

Well Casing Diameter 2" inches From -20 feet to -2.64 feet

SCREEN OR PERFORATION RECORD:

Type and Slot Size Stainless steel 0.01 From ~~30~~ 19.77 feet to 29.77 feet

Type and Slot Size ____ From ____ feet to ____ feet

FILTER PACK:

Type and Size Silica sand 10/20 From 17.5 feet to 30 feet

Type and Size ____ From ____ feet to ____ feet

SEAL:

Cement Grout Surface Seal Installed? ☒ Yes ☐ No

Type of Surface Seal concrete From 0 feet to -2 feet

Type of Annular Seal Portland Cement w/6% bent. From 15.5 feet to -2 feet

Type of Filter Pack Seal Bent chip 1/4-1/2 From -15.5 feet to -17.5 feet

TYPE OF COMPLETION: ☒ Above Ground ☐ Flush Mounted ☐ Pitless Adapter

SURFACE PAD: Size: 3 feet X 3 feet X 4 inches

PLUGGING DATA

☐ Non-Contaminated ☐ Contaminated Date Plugged ____

Backfilled From ____ feet to ____ feet Type ____

Grouted From ____ feet to ____ feet Type ____

Cement Grouted From ____ feet to ____ feet Tremied? ☐ Yes ☐ No

RECONDITIONING WORK

Replaced Casing/Screen From ____ feet to ____ feet

Deepened Well From ____ feet to ____ feet

Redeveloped Well by ____

LITHOLOGIC LOG

MATERIAL	ENCOUNTERED FROM FEET	ENCOUNTERED TO FEET	INDICATE SATURATION
Brown clayey silt	0	3.0	Dry
yellowish brn & gray Clay	3.0	10.0	sl. moist saturation @ 9.5'
gray & yellow clay	10	12.25	
~~brownish & gray~~ brownish yellow, gray, & yellowish brn clay	12.25	22	sl. moist except saturation @ 19.1'
yellowish brn silt interbedded w/ limestone	22	25.	Dry
gray limestone	25	28.5	Dry
Brn clay	28.5	30	sl. moist

HYDROLOGIC DATA

First Water Zone Encountered 9.5' feet Approximate Yield 6.5 GPD DAY Flowing Artesian? ☐ Yes ☒ No

Measured Water Level 13.04 feet below land surface. After Drilling 7-19-99 hours

WELL LOCATION

Distance from the nearest possible source of pollution. (A minimum of 50 feet is required if the well is up-gradient, 75 feet if the well is level, and 100 feet if the well is down gradient.)

Distance approx 845 feet from type or source closed impoundment

Elevation of source from well. ☐ Up-gradient ☐ Level ☒ Down-gradient

Has this well been disinfected after completion of work? ☐ Yes ☒ No

If this well is a replacement well, has old well been abandoned properly? ☐ Yes ☐ No ☒ Not a replacement well

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Name Jerry J. Black D/PC No. 0015

Address 1908 W. Boyd Norman, OK 73069 Phone 405 360-2852

[signature] SIGNATURE Date 8-30-99

Appendix D

Project Logs
Monitor Wells Sampling
(2013-2022)

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling   Date: 08/12/2013
Time started: 0751   Wind speed: 6   direction: 200
Temperature: 78 °F   Cloud cover: Partly Cloudy
Time ended: 1430   Wind speed: 8   direction: 180
Temperature: 96 °F   Cloud cover: Partly Cloudy
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	13.55	0.95	16.17	7.24	26.2	3,150	08122013 F 1114
PZ-5	17.38	0.95	30.14	7.03	24.1	4,790	08122013 C 0935
PZ-9	11.92	0.95	17.29	6.93	27.9	3,870	08122013 B 1035
CW-2	19.09	0.95	32.98	6.96	23.2	5,640	08122013 D 0820
Field Blank		0.95		7.68	34.4	93.7	08122013 E 1235
Trip		0.95		7.66	32.2	44.3	08122013 A 1205

BAEC & MBWP PH 4, 7, & 10 OK 0754
BAEC & MBWP Conductivity 447,1413, and 2764 OK 0758

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling Date: 08/01/2014
Time started: 0831 Wind speed: 6 direction: 040
Temperature: 66 °F Cloud cover: Cloudy
Time ended: 1502 Wind speed: 6 direction: 040
Temperature: 75 °F Cloud cover: Cloudy
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	13.16	1.06	16.17	7.25	22.1	3,730	08012014 A 0956
PZ-5	18.97	1.06	30.14	6.71	20.4	5,700	08012014 D 1121
PZ-9	8.44	1.06	17.29	6.78	25.7	4,090	08012014 C 1412
CW-2	18.66	1.06	32.98	6.93	22.7	5,740	08012014 F 1328
Field Blank		1.06		8.59	22.1	15.81	08012014 B 1208
Trip		1.06		8.72	21.6	3.99	08012014 E 0919

BAEC & MBWP PH 4, 7, & 10 OK 0845
BAEC & MBWP Conductivity 447,1413, and 2764 OK 0906

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling Date: 08/01/2015
Time started: 0831 Wind speed: 4 direction: 080
Temperature: 79 °F Cloud cover: Clear
Time ended: 1555 Wind speed: 6 direction: 085
Temperature: 94 °F Cloud cover: Clear
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	14.12	1.06	16.17	7.08	25.9	3,690	08012015 F 1011
PZ-5	17.96	1.06	30.14	6.59	22.8	5,710	08012015 C 1127
PZ-9	13.37	1.06	17.29	6.84	30.1	3,770	08012015 D 1316
CW-2	17.91	0.81	32.98	6.69	23.4	5,790	08012015 A 1441
Field Blank		1.06		7.57	32.1	9.93	08012015 E 1218
Trip		1.06		8.40	35.1	10.59	08012015 B 1157

BAEC & MBWP PH 4, 7, & 10 OK 0916
BAEC & MBWP Conductivity 447,1413, and 2764 OK 0916

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling Date: 08/31/2016
Time started: 0818 Wind speed: 3 direction: 040
Temperature: 77 °F Cloud cover: Clear
Time ended: 1623 Wind speed: 3 direction: 040
Temperature: 95 °F Cloud cover: Clear
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	12.86	1.06	16.17	7.61	27.6	3,320	08312016 C 1028
PZ-5	16.81	1.06	30.14	6.89	23.2	3,800	08312016 D 1318
PZ-9	12.42	1.06	17.29	6.79	26.1	3,490	08312016 A 1448
CW-2	18.72	1.06	32.98	6.81	25.8	4,980	08312016 E 1152
Field Blank		1.06		8.24	34.3	81.9	08312016 B 1541
Trip		1.06		7.87	43.2	3.63	08312016 F 0951

BAEC & MBWP PH 4, 7, & 10 OK 0847
BAEC & MBWP Conductivity 447,1413, and 2764 OK 0858

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling Date: 08/28/2017
Time started: 0730 Wind speed: Calm direction: ______
Temperature: 20 °C Cloud cover: Cloudy
Time ended: 1623 Wind speed: 3 direction: 100°
Temperature: 28 °C Cloud cover: Mostly Cloudy
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	12.84	0.78	16.17	6.95	23.4	3,187	08282017 C 0845-0903
PZ-9	dry	0	17.29				
CW-2	18.52	0.78	32.98	6.58	23.8	4,960	08282017 A 1025-1043
Field Blank		0.78		8.45	27.9	15.8	08282017 B 0945-0958
Trip Blank		0.78		7.45	24.6	5.06	08282017 D 0745-0755

BAEC & MBWP PH 4, 7, & 10 OK 0730
BAEC & MBWP Conductivity 447,1413, and 2764 OK 0740

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling   Date: 08/29/2018
Time started: 0720   Wind speed: Calm   direction: ______
Temperature: 23 °C   Cloud cover: Cloudy
Time ended: 1230   Wind speed: 3   direction: 160°
Temperature: 33 °C   Cloud cover: Mostly Cloudy
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	13.44	1.12	16.17	7.42 ---------- 7.43	26.2 ------- 26.3	3,630 ------------ 3,250	08292018 C 1102-1131
PZ-9	16.63	0.25	17.29	6.81 ----------	24.3 -------	3,700 ------------	1015
CW-2	20.08	1.12	32.98	6.68 ---------- 6.64	25.1 ------- 24.1	5,090 ------------ 5,030	08292018 D 0928-0948
Field Blank		1.06		8.85	35.3	7.79	08292018 A 1039-1054
Trip Blank		1.06		9.57	33.5	12.88	08292018 B 0949-0955

BAEC & MBWP PH 4, 7, & 10 OK

BAEC & MBWP Conductivity 447,1413, and 2764 OK

PZ-9 only contained 0.25 liters of water and therefore not enough for pentachlorophenol and naphthalene analysis.

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling Date: 08/28/2019
Time started: 0729 Wind speed: 2 direction: NE
Temperature: 21 °C Cloud cover: Clear
Time ended: 1325 Wind speed: 2 direction: SE
Temperature: 30 °C Cloud cover: Scattered Clear
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-5	17.51	0.85	30.14	6.69 ---------- 6.82	26.7 ------- 26.4	3,350 ------------ 3,510	08282019 B 1229-1240
PZ-9	16.71	0.063	17.29	6.81 ---------- 6.93	26.7 ------- 25.9	3,630 ------------ 3,780	08282019 E 1200-1211
CW-2	19.21	0.85	32.98	6.91 ---------- 7.24	24.7 ------- 23.3	5,760 ------------ 5,940	08282019 A 0942-0953
Field Blank		0.85		6.98	29.1	9.39	08282019 C 1029-1042
Trip Blank		0.85		6.81	31.5	4.18	08282019 D 0931

BAEC & MBWP PH 4, 7, & 10 OK

BAEC & MBWP Conductivity 447,1413, and 2764 OK

PZ-9 only contained 8 oz. of water and therefore not enough for testing of Pentachlorophenol and Naphthalene.

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: RCRA Compliance Well Sampling Date: 08/26/2020
Time started: 0948 Wind speed: 9 direction: N
Temperature: 21 °C Cloud cover: Cloudy
Time ended: 1728 Wind speed: 3 direction: NE
Temperature: 21 °C Cloud cover: Cloudy
Personnel: JJB

CW - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	13.85	0.85	16.17	6.92 / 7.09	21.2 / 20.5	3,120 / 2,910	08262020 B 1139-1222
PZ-5	21.48	0.85	30.14	6.80 / 6.71	21.5 / 21.7	3,320 / 3,870	08262020 E 1459-1520
PZ-9	16.41	0.06	17.29	7.31 / 7.21	21.8 / 21.2	1,857 / 1,872	1325-1349
CW-2	19.59	0.85	32.98	6.40 / 6.42	21.1 / 20.4	4,930 / 5,100	08262020 A 1358-1421
Field Blank		1.06		9.04	26.4	4.89	08262020 C 1538-1609
Trip Blank		1.06		9.08	25.2	10.64	08262020 D 1101

BAEC & MBWP PH 4, 7, & 10 OK

BAEC & MBWP Conductivity 447,1413, and 2764 OK

PZ-9 only contained 7 oz. of water and therefore not enough for testing of Pentachlorophenol and Naphthalene.

Black and Associates
Environmental Consultants, Inc.

Since 1948

Mixon Brothers Wood Preserving, Inc.

Project Log

Project: RCRA Compliance Well Sampling Date: 08/18/2021
Time started: 0930 Wind speed: 6 direction: 200
Temperature: 24°C Cloud cover: Cloudy
Time ended: 1332 Wind speed: 5 direction: 140
Temperature: 28°C Cloud cover: Cloudy
Personnel: JJB

CW Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-5	17.23	0.85	30.14	7.25 / 7.21	25.2 / 24.1	1,628 / 1,721	08182021 B 1231-1315
PZ-9	16.51	0.08	17.29	6.95 / 7.01	25.2 / 25.1	3,750 / 3,600	1220-1235
CW-2	18.59	0.85	32.98	6.73 / 6.74	25.2 / 21.3	5,290 / 5,490	08182021 A 1058-1123
Field Blank		1.06		8.58	28.6	10.39	08182021 C 1131-1202
Trip Blank		1.06		8.62	26.6	9.90	08182021 D 1020-1033

BAEC & MBWP PH 4, 7, & 10 OK 0945-1015

BAEC & MBWP Conductivity 447,1413, and 2764 OK 0945-1020

PZ-9 only contained 8 oz. of water and therefore not enough for testing of Pentachlorophenol and Naphthalene.

Black and Associates
Environmental Consultants, Inc.

Since 1948

Mixon Brothers Wood Preserving, Inc.

Project Log

Project: RCRA Compliance Well Sampling Date: 08/15/2022
Time started: 0706 Wind speed: 0 direction: 190
Temperature: 75°F Cloud cover: Clear
Time ended: 1633 Wind speed: 8 direction: 200
Temperature: 100°F Cloud cover: Clear
Personnel: JJB

CW/PZ Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°C)	Specific Conductance	Sample Number and Time
PZ-2	13.45	0.85	16.17	7.36 7.43	37.0 37.9	1,899 1,428	08152022 B 1145-1200
PZ-5	19	0.85	30.14	7.08 7.01	25.6 25.2	2,550 2,584	08152022 E 1350-1400
PZ-9	18.53	0.21	17.29	6.91	25.1	3,710	1045
CW-2	19.60	0.85	32.98	6.80 6.72	27.3 23.8	3,040 5,110	08152022 A 1250-1300
Field Blank		2.06		6.25	36.2	7.04	08152022 C 1542-1612
Trip Blank		0.85		6.05	38.3	14.72	08152022 D 0830

BAEC & MBWP PH 4, 7, & 10 OK 0745-0805

BAEC & MBWP Conductivity 447,1413, and 2764 OK 0805-0829

PZ-9 only contained 6 oz. of water and therefore not enough for testing for Pentachlorophenol and Naphthalene.

Appendix E

Laboratory Analytical Results
from
Monitor Wells (2013 to 2022)

Black and Associates Environmental Consultants, Inc.

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

27 August 2013

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E3H0176
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/13/13 07:56. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

08122013A

E3H0176-01 (Aqueous)

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Phenols by EPA Method 8041									
Pentachlorophenol	<1.00	1.00	ug/L	1	EBH0262	CDH	08/14/13 20:26	EPA 8041A	
Surrogate: Decachlorobiphenyl		*101 %*		*70-130*	*EBH0262*	CDH	*08/14/13 20:26*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed		N/A		EBH0262	MLL	08/13/13 15:00	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270									
Naphthalene	<2.00	2.00	ug/L	1.05	EBH0261	CDH	08/15/13 12:47	EPA 8270D	
Surrogate: 2-Fluorophenol		*41 %*		*1-89*	*EBH0261*	CDH	*08/15/13 12:47*	*EPA 8270D*	
Surrogate: Phenol-d5		*41 %*		*5-98*	*EBH0261*	CDH	*08/15/13 12:47*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*47 %*		*19-105*	*EBH0261*	CDH	*08/15/13 12:47*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*49 %*		*22-101*	*EBH0261*	CDH	*08/15/13 12:47*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*39 %*		*47-144*	*EBH0261*	CDH	*08/15/13 12:47*	*EPA 8270D*	*S-05*
Surrogate: Terphenyl-d14		*88 %*		*20-145*	*EBH0261*	CDH	*08/15/13 12:47*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EBH0261	MLL	08/13/13 15:00	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

08122013B

E3H0176-02 (Aqueous)

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Phenols by EPA Method 8041									
Pentachlorophenol	<1.00	1.00	ug/L	1.05	EBH0262	CDH	08/14/13 20:57	EPA 8041A	
Surrogate: Decachlorobiphenyl		*96 %*	*70-130*		*EBH0262*	CDH	*08/14/13 20:57*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed		N/A		EBH0262	MLL	08/13/13 15:00	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270									
Naphthalene	<2.00	2.00	ug/L	1.05	EBH0261	CDH	08/15/13 13:26	EPA 8270D	
Surrogate: 2-Fluorophenol		*33 %*	*1-89*		*EBH0261*	CDH	*08/15/13 13:26*	*EPA 8270D*	
Surrogate: Phenol-d5		*41 %*	*5-98*		*EBH0261*	CDH	*08/15/13 13:26*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*43 %*	*19-105*		*EBH0261*	CDH	*08/15/13 13:26*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*45 %*	*22-101*		*EBH0261*	CDH	*08/15/13 13:26*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*59 %*	*47-144*		*EBH0261*	CDH	*08/15/13 13:26*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*89 %*	*20-145*		*EBH0261*	CDH	*08/15/13 13:26*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EBH0261	MLL	08/13/13 15:00	EPA 3520C	

Environmental Testing Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

08122013C

E3H0176-03 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Environmental Testing Inc.

Phenols by EPA Method 8041

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Pentachlorophenol	<1.00	1.00	ug/L	5.38	EBH0262	CDH	08/15/13 10:57	EPA 8041A	
Surrogate: Decachlorobiphenyl		*59 %*		*70-130*	*EBH0262*	CDH	*08/15/13 10:57*	*EPA 8041A*	*S-05*
Liquid-Liquid Extraction	Completed		N/A		EBH0262	MLL	08/13/13 15:00	EPA 3520C	

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Naphthalene	<2.00	2.00	ug/L	1.08	EBH0261	CDH	08/15/13 14:05	EPA 8270D	
Surrogate: 2-Fluorophenol		*42 %*		*1-89*	*EBH0261*	CDH	*08/15/13 14:05*	*EPA 8270D*	
Surrogate: Phenol-d5		*43 %*		*5-98*	*EBH0261*	CDH	*08/15/13 14:05*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*51 %*		*19-105*	*EBH0261*	CDH	*08/15/13 14:05*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*50 %*		*22-101*	*EBH0261*	CDH	*08/15/13 14:05*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*71 %*		*47-144*	*EBH0261*	CDH	*08/15/13 14:05*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*60 %*		*20-145*	*EBH0261*	CDH	*08/15/13 14:05*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EBH0261	MLL	08/13/13 15:00	EPA 3520C	

Environmental Testing Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

08122013D

E3H0176-04 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Environmental Testing Inc.									
Phenols by EPA Method 8041									
Pentachlorophenol	<1.00	1.00	ug/L	1	EBH0262	CDH	08/14/13 21:59	EPA 8041A	
Surrogate: Decachlorobiphenyl	*92 %*		*70-130*		*EBH0262*	CDH	*08/14/13 21:59*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed		N/A		EBH0262	MLL	08/13/13 15:00	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270									
Naphthalene	<2.00	2.00	ug/L	1.05	EBH0261	CDH	08/15/13 14:45	EPA 8270D	
Surrogate: 2-Fluorophenol	*25 %*		*1-89*		*EBH0261*	CDH	*08/15/13 14:45*	*EPA 8270D*	
Surrogate: Phenol-d5	*40 %*		*5-98*		*EBH0261*	CDH	*08/15/13 14:45*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*48 %*		*19-105*		*EBH0261*	CDH	*08/15/13 14:45*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*48 %*		*22-101*		*EBH0261*	CDH	*08/15/13 14:45*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol	*60 %*		*47-144*		*EBH0261*	CDH	*08/15/13 14:45*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*89 %*		*20-145*		*EBH0261*	CDH	*08/15/13 14:45*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EBH0261	MLL	08/13/13 15:00	EPA 3520C	

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

08122013E

E3H0176-05 (Aqueous)

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Phenols by EPA Method 8041									
Pentachlorophenol	<1.00	1.00	ug/L	1.06	EBH0262	CDH	08/14/13 22:57	EPA 8041A	
Surrogate: Decachlorobiphenyl		*104 %*		*70-130*	*EBH0262*	CDH	*08/14/13 22:57*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed		N/A		EBH0262	MLL	08/13/13 15:00	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270									
Naphthalene	<2.00	2.00	ug/L	1.06	EBH0261	CDH	08/15/13 15:24	EPA 8270D	
Surrogate: 2-Fluorophenol		*50 %*		*1-89*	*EBH0261*	CDH	*08/15/13 15:24*	*EPA 8270D*	
Surrogate: Phenol-d5		*49 %*		*5-98*	*EBH0261*	CDH	*08/15/13 15:24*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*54 %*		*19-105*	*EBH0261*	CDH	*08/15/13 15:24*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*55 %*		*22-101*	*EBH0261*	CDH	*08/15/13 15:24*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*56 %*		*47-144*	*EBH0261*	CDH	*08/15/13 15:24*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*96 %*		*20-145*	*EBH0261*	CDH	*08/15/13 15:24*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EBH0261	MLL	08/13/13 15:00	EPA 3520C	

Environmental Testing Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

08122013F

E3H0176-06 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Environmental Testing Inc.									
Phenols by EPA Method 8041									
Pentachlorophenol	<1.00	1.00	ug/L	1.05	EBH0262	CDH	08/14/13 23:00	EPA 8041A	
Surrogate: Decachlorobiphenyl		*69 %*		*70-130*	*EBH0262*	CDH	*08/14/13 23:00*	*EPA 8041A*	*S-05*
Liquid-Liquid Extraction	Completed		N/A		EBH0262	MLL	08/13/13 15:00	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270									
Naphthalene	<2.00	2.00	ug/L	1.12	EBH0261	CDH	08/15/13 16:03	EPA 8270D	
Surrogate: 2-Fluorophenol		*41 %*		*1-89*	*EBH0261*	CDH	*08/15/13 16:03*	*EPA 8270D*	
Surrogate: Phenol-d5		*15 %*		*5-98*	*EBH0261*	CDH	*08/15/13 16:03*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*52 %*		*19-105*	*EBH0261*	CDH	*08/15/13 16:03*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*54 %*		*22-101*	*EBH0261*	CDH	*08/15/13 16:03*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*58 %*		*47-144*	*EBH0261*	CDH	*08/15/13 16:03*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*87 %*		*20-145*	*EBH0261*	CDH	*08/15/13 16:03*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EBH0261	MLL	08/13/13 15:00	EPA 3520C	

Environmental Testing Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

Phenols by EPA Method 8041 - Quality Control

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EBH0262 - EPA 3520 TCLP										
Blank (EBH0262-BLK1)				Prepared: 08/13/13 Analyzed: 08/14/13						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0757*		ug/L	*0.0800*		*95*	*70-130*			
LCS (EBH0262-BS1)				Prepared: 08/13/13 Analyzed: 08/14/13						
Pentachlorophenol	0.0724	1.00	ug/L	0.150		48	80-120			M-04
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0874*		ug/L	*0.0800*		*109*	*70-130*			

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

Semivolatile Organic Compounds by EPA Method 8270 - Quality Control

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EBH0261 - EPA 3520 TCLP										
Blank (EBH0261-BLK1)				Prepared: 08/13/13 Analyzed: 08/15/13						
Naphthalene	<2.50	2.50	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*48.8*		ug/L	*100*		*49*	*1-89*			
Surrogate: Phenol-d5	*50.8*		ug/L	*100*		*51*	*5-98*			
Surrogate: Nitrobenzene-d5	*28.6*		ug/L	*50.0*		*57*	*19-105*			
Surrogate: 2-Fluorobiphenyl	*29.5*		ug/L	*50.0*		*59*	*22-101*			
Surrogate: 2,4,6-Tribromophenol	*48.2*		ug/L	*100*		*48*	*47-144*			
Surrogate: Terphenyl-d14	*44.5*		ug/L	*50.0*		*89*	*20-145*			
LCS (EBH0261-BS1)				Prepared: 08/13/13 Analyzed: 08/15/13						
Phenol	21.7	10.0	ug/L	50.0		43	15-112			
2-Chlorophenol	24.6	10.0	ug/L	50.0		49	32-91			
1,4-Dichlorobenzene	34.9	10.0	ug/L	100		35	21-85			
n-Nitrosodi-n-propylamine	20.1	10.0	ug/L	50.0		40	28-92			
1,2,4-Trichlorobenzene	21.7	10.0	ug/L	50.0		43	30-99			
4-Chloro-3-methylphenol	23.7	10.0	ug/L	50.0		47	50-106			M-04
Acenaphthene	22.6	10.0	ug/L	50.0		45	47-112			M-04
4-Nitrophenol	45.0	10.0	ug/L	50.0		90	18-157			
2,4-Dinitrotoluene	88.6	10.0	ug/L	100		89	67-115			
Pyrene	46.1	10.0	ug/L	50.0		92	65-109			
Benzo(a)anthracene	46.6	10.0	ug/L	50.0		93	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*39.5*		ug/L	*100*		*40*	*1-89*			
Surrogate: Phenol-d5	*42.1*		ug/L	*100*		*42*	*5-98*			
Surrogate: Nitrobenzene-d5	*22.9*		ug/L	*50.0*		*46*	*19-105*			
Surrogate: 2-Fluorobiphenyl	*20.8*		ug/L	*50.0*		*42*	*22-101*			
Surrogate: 2,4,6-Tribromophenol	*70.7*		ug/L	*100*		*71*	*47-144*			
Surrogate: Terphenyl-d14	*47.9*		ug/L	*50.0*		*96*	*20-145*			

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2014
NELAP	NELAP Accredited	10002	06/30/2014
ODEQ	Oklahoma Accredited	2012-154	08/31/2013
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/27/13 13:33

Notes and Definitions

S-05	The surrogate recovery was outside of laboratory control limits.
M-04	The laboratory control spike recovery was lower than expected.
COM	Completed
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

E3H0176

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 13, 2013

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745 . Also, please send a copy of results to J. J. Black.

Please analyze 08122013 A-F for pentachlorophenol and naphthalene.

All samples are liquid.

E3H0176

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
08122013 A-F	August 12, 2013	hours

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	**Witness(es)**
J. J. Black	

Remarks:

Received on Ice (4° C) 0.8°C on ice G00784

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	Jerry J. Black	August 13, 2013	0750 hrs.
	Disposition of Sample	**Signature**	
	ETI for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL
TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E3H0176

1.	Were samples received on ice?	YES	NO	
2.	Temperature of representative sample or temperature blank 6.8 °C			
3.	If the temperature is ≤ 0°C, was the representative sample or temp blank frozen?	YES	NO	NA
4.	Did all containers arrive in good condition (unbroken)?	YES	NO	
5.	Were VOA vials received?	YES	NO	
	a. Was there any observable headspace present in any VOA vial?	YES	NO	NA
6.	Were the correct containers used for the analysis requested?	YES	NO	
7.	Was there sufficient amount of sample to perform the requested tests in each container?	YES	NO	
8.	Were the samples received with sufficient time left to meet holding time requirements?	YES	NO	
9.	On preserved containers, did pH strips suggest preservation reached the correct pH level? (DO NOT OPEN VOA VIALS TO CHECK pH)	YES	NO	NA

Acid Preserved ≤2 Other ________ Base Preserved ≥12 Other ________

10.	Did the containers indicate the correct preservatives were used for the requested analysis?	YES	NO	NA
11.	Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)?	YES	NO	
12.	If samples were not in compliance, was the client notified of the nonconformity?	YES	Date: ________ Initial: ________	
	a. If yes, does the client wish to proceed with analysis?	YES	NO	
13.	Was the client notified of the intent to subcontract work that will NOT be performed by ETI?	YES	Date: ________ Initial: ________	

Preservative ID(s) ____________, ____________, ____________, ____________

I certify that all of the above checks were completed. (Initial) lie

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container.
(Initial) lxv

Notes:

____

Report and Accompanying Data Reviewed by: ____________________ Date: ____________

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

13 August 2014

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E4H0028
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/04/14 07:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

08012014 A

E4H0028-01 (Aqueous) - Sampled: 08/01/14 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Phenols by EPA Method 8041

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.12	ECH0051	CDH	08/05/14 13:22	EPA 8041A	
Surrogate: Decachlorobiphenyl		*82 %*		*70-130*		*ECH0051*	CDH	*08/05/14 13:22*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		ECH0051	FJM	08/05/14 12:27	EPA 3520C	

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<1.53	1.53	11.0	ug/L	1.1	ECH0052	CDH	08/06/14 12:53	EPA 8270D	
Surrogate: 2-Fluorophenol		*36 %*		*1-89*		*ECH0052*	CDH	*08/06/14 12:53*	*EPA 8270D*	
Surrogate: Phenol-d5		*56 %*		*5-98*		*ECH0052*	CDH	*08/06/14 12:53*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*75 %*		*19-105*		*ECH0052*	CDH	*08/06/14 12:53*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*77 %*		*22-101*		*ECH0052*	CDH	*08/06/14 12:53*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*74 %*		*47-144*		*ECH0052*	CDH	*08/06/14 12:53*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*82 %*		*20-145*		*ECH0052*	CDH	*08/06/14 12:53*	*EPA 8270D*	
uid-Liquid Extraction	Completed			N/A		ECH0052	JWS	08/04/14 13:52	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

08012014 B

E4H0028-02 (Aqueous) - Sampled: 08/01/14 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.04	ECH0051	User1	08/05/14 14:24	EPA 8041A	
Surrogate: Decachlorobiphenyl	*97 %*			*70-130*		*ECH0051*	User1	*08/05/14 14:24*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		ECH0051	FJM	08/05/14 12:27	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<1.43	1.43	10.3	ug/L	1.03	ECH0052	CDH	08/06/14 13:32	EPA 8270D	
Surrogate: 2-Fluorophenol	*65 %*			*1-89*		*ECH0052*	CDH	*08/06/14 13:32*	*EPA 8270D*	
Surrogate: Phenol-d5	*68 %*			*5-98*		*ECH0052*	CDH	*08/06/14 13:32*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*74 %*			*19-105*		*ECH0052*	CDH	*08/06/14 13:32*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*83 %*			*22-101*		*ECH0052*	CDH	*08/06/14 13:32*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol	*74 %*			*47-144*		*ECH0052*	CDH	*08/06/14 13:32*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*89 %*			*20-145*		*ECH0052*	CDH	*08/06/14 13:32*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		ECH0052	JWS	08/04/14 13:52	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

08012014 C

E4H0028-03 (Aqueous) - Sampled: 08/01/14 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.09	ECH0051	User1	08/05/14 14:54	EPA 8041A	
Surrogate: Decachlorobiphenyl		*76 %*		*70-130*		*ECH0051*	User1	*08/05/14 14:54*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		ECH0051	FJM	08/05/14 12:27	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<1.48	1.48	10.6	ug/L	1.06	ECH0052	CDH	08/06/14 14:12	EPA 8270D	
Surrogate: 2-Fluorophenol		*64 %*		*1-89*		*ECH0052*	CDH	*08/06/14 14:12*	*EPA 8270D*	
Surrogate: Phenol-d5		*65 %*		*5-98*		*ECH0052*	CDH	*08/06/14 14:12*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*71 %*		*19-105*		*ECH0052*	CDH	*08/06/14 14:12*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*74 %*		*22-101*		*ECH0052*	CDH	*08/06/14 14:12*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*81 %*		*47-144*		*ECH0052*	CDH	*08/06/14 14:12*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*74 %*		*20-145*		*ECH0052*	CDH	*08/06/14 14:12*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		ECH0052	JWS	08/04/14 13:52	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

08012014 D

E4H0028-04 (Aqueous) - Sampled: 08/01/14 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	5.32	ECH0051	User1	08/05/14 16:34	EPA 8041A	
Surrogate: Decachlorobiphenyl		*85 %*		*70-130*		*ECH0051*	User1	*08/05/14 15:25*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		ECH0051	FJM	08/05/14 12:27	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<1.46	1.46	10.5	ug/L	1.05	ECH0052	CDH	08/06/14 14:51	EPA 8270D	
Surrogate: 2-Fluorophenol		*59 %*		*1-89*		*ECH0052*	CDH	*08/06/14 14:51*	*EPA 8270D*	
Surrogate: Phenol-d5		*68 %*		*5-98*		*ECH0052*	CDH	*08/06/14 14:51*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*70 %*		*19-105*		*ECH0052*	CDH	*08/06/14 14:51*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*77 %*		*22-101*		*ECH0052*	CDH	*08/06/14 14:51*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*81 %*		*47-144*		*ECH0052*	CDH	*08/06/14 14:51*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*83 %*		*20-145*		*ECH0052*	CDH	*08/06/14 14:51*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		ECH0052	JWS	08/04/14 13:52	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

08012014 E

E4H0028-05 (Aqueous) - Sampled: 08/01/14 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.04	ECH0051	User1	08/05/14 18:06	EPA 8041A	
Surrogate: Decachlorobiphenyl		*98 %*		*70-130*		*ECH0051*	User1	*08/05/14 18:06*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		ECH0051	FJM	08/05/14 12:27	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<1.43	1.43	10.3	ug/L	1.03	ECH0052	CDH	08/06/14 15:30	EPA 8270D	
Surrogate: 2-Fluorophenol		*67 %*		*1-89*		*ECH0052*	CDH	*08/06/14 15:30*	*EPA 8270D*	
Surrogate: Phenol-d5		*67 %*		*5-98*		*ECH0052*	CDH	*08/06/14 15:30*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*78 %*		*19-105*		*ECH0052*	CDH	*08/06/14 15:30*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*78 %*		*22-101*		*ECH0052*	CDH	*08/06/14 15:30*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*72 %*		*47-144*		*ECH0052*	CDH	*08/06/14 15:30*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*84 %*		*20-145*		*ECH0052*	CDH	*08/06/14 15:30*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		ECH0052	JWS	08/04/14 13:52	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

08012014 F

E4H0028-06 (Aqueous) - Sampled: 08/01/14 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.37	ECH0051	CDH	08/06/14 09:05	EPA 8041A	
Surrogate: Decachlorobiphenyl		*52 %*		*70-130*		*ECH0051*	User1	*08/05/14 16:01*	*EPA 8041A*	*S-05*
Liquid-Liquid Extraction	Completed			N/A		ECH0051	FJM	08/05/14 12:27	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<1.69	1.69	12.2	ug/L	1.22	ECH0052	CDH	08/06/14 16:10	EPA 8270D	
Surrogate: 2-Fluorophenol		*65 %*		*1-89*		*ECH0052*	CDH	*08/06/14 16:10*	*EPA 8270D*	
Surrogate: Phenol-d5		*75 %*		*5-98*		*ECH0052*	CDH	*08/06/14 16:10*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*79 %*		*19-105*		*ECH0052*	CDH	*08/06/14 16:10*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*81 %*		*22-101*		*ECH0052*	CDH	*08/06/14 16:10*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*78 %*		*47-144*		*ECH0052*	CDH	*08/06/14 16:10*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*73 %*		*20-145*		*ECH0052*	CDH	*08/06/14 16:10*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		ECH0052	JWS	08/04/14 13:52	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

Phenols by EPA Method 8041 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ECH0051 - EPA 3520										
Blank (ECH0051-BLK1)				Prepared: 08/04/14 Analyzed: 08/05/14						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0960*		ug/L	*0.0800*		*120*	*70-130*			
LCS (ECH0051-BS1)				Prepared: 08/04/14 Analyzed: 08/05/14						
Pentachlorophenol	0.162	1.00	ug/L	0.150		108	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0801*		ug/L	*0.0800*		*100*	*70-130*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

Semivolatile Organic Compounds by EPA Method 8270 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ECH0052 - EPA 3520										
Blank (ECH0052-BLK1)				Prepared: 08/04/14 Analyzed: 08/06/14						
Naphthalene	<10.0	10.0	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*57.9*		ug/L	*100*		*58*	*1-89*			
Surrogate: Phenol-d5	*49.9*		ug/L	*100*		*50*	*5-98*			
Surrogate: Nitrobenzene-d5	*39.0*		ug/L	*50.0*		*78*	*19-105*			
Surrogate: 2-Fluorobiphenyl	*41.1*		ug/L	*50.0*		*82*	*22-101*			
Surrogate: 2,4,6-Tribromophenol	*65.3*		ug/L	*100*		*65*	*47-144*			
Surrogate: Terphenyl-d14	*43.7*		ug/L	*50.0*		*87*	*20-145*			
LCS (ECH0052-BS1)				Prepared: 08/04/14 Analyzed: 08/06/14						
Naphthalene	37.4	10.0	ug/L	50.0		75	80-120			L-01
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*62.2*		ug/L	*100*		*62*	*1-89*			
Surrogate: Phenol-d5	*73.7*		ug/L	*100*		*74*	*5-98*			
Surrogate: Nitrobenzene-d5	*41.2*		ug/L	*50.0*		*82*	*19-105*			
Surrogate: 2-Fluorobiphenyl	*39.7*		ug/L	*50.0*		*79*	*22-101*			
Surrogate: 2,4,6-Tribromophenol	*83.6*		ug/L	*100*		*84*	*47-144*			
Surrogate: Terphenyl-d14	*41.4*		ug/L	*50.0*		*83*	*20-145*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2015
NDSDH	North Dakota Accredited	R-191	06/30/2015
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2015
ODEQ	Oklahoma Accredited	2013-063	08/31/2014
TCEQ	Texas Accredited	T104704498-13-3	03/31/2015

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/13/14 10:20

Qualifiers and Definitions

COM	Completed
L-01	The laboratory control spike recovery was lower than expected.
S-05	The surrogate recovery was outside of laboratory control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.

E4H0028

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 2, 2014

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745 . Also, please send a copy of results to J. J. Black.

Please analyze 08012014 A-F for pentachlorophenol and naphthalene.

All samples are liquid.

1 A
2 B
3 C
4. D
5. E
6. F

E4H0078

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
08012014 A-F	August 1, 2014	hours

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	**Witness(es)**
J. J. Black	

Remarks:

Received on Ice (4°C) 1.2°C on ice 6(?)0784

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	Jerry J. Black	August 4, 2014	0755 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL
TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E4H0028

1.	Were samples received on ice?	YES	NO	
2.	Temperature of representative sample or temperature blank 1.2 °C			
3.	If the temperature is ≤ 0°C, was the representative sample or temp blank frozen?	YES	NO	NA
4.	Did all containers arrive in good condition (unbroken)?	YES	NO	
5.	Were VOA vials received?	YES	NO	
a.	Was there any observable headspace present in any VOA vial?	YES	NO	NA
6.	Were the correct containers used for the analysis requested?	YES	NO	
7.	Was there sufficient amount of sample to perform the requested tests in each container?	YES	NO	
8.	Were the samples received with sufficient time left to meet holding time requirements?	YES	NO	
9.	On preserved containers, did pH strips suggest preservation reached the correct pH level? **(DO NOT OPEN VOA VIALS TO CHECK pH)**	YES	NO	NA

Acid Preserved ≤2 Other ________ Base Preserved ≥12 Other ________

10.	Did the containers indicate the correct preservatives were used for the requested analysis?	YES	NO	NA
11.	Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)?	YES	NO	
12.	If samples were not in compliance, was the client notified of the nonconformity?	YES	Date:________ Initial:________	
a.	If yes, does the client wish to proceed with analysis?	YES	NO	
13.	Was the client notified of the intent to subcontract work that will NOT be performed by ETI?	YES	Date:________ Initial:________	

Preservative ID(s) ____________, ____________, ____________, ____________

I certify that all of the above checks were completed. (Initial) AW

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container. (Initial) AW

Notes:

Report and Accompanying Data Reviewed by: ____________________ Date: ____________

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

10 August 2015

Mr. Bob Mixon

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E5H0002
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/03/15 07:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

08012015 A

E5H0002-01 (Aqueous) - Sampled: 08/01/15 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<0.327	0.327	10.0	ug/L	1	EDH0076	CDH	08/06/15 17:59	EPA 8270D	
Pentachlorophenol	<1.19	1.19	10.0	ug/L	1	EDH0076	CDH	08/06/15 17:59	EPA 8270D	
Surrogate: 2-Fluorophenol		*24 %*		*1-156*		*EDH0076*	CDH	*08/06/15 17:59*	*EPA 8270D*	
Surrogate: Phenol-d5		*61 %*		*1-146*		*EDH0076*	CDH	*08/06/15 17:59*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*81 %*		*11.1-118*		*EDH0076*	CDH	*08/06/15 17:59*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*74 %*		*14-134*		*EDH0076*	CDH	*08/06/15 17:59*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*87 %*		*20.9-145*		*EDH0076*	CDH	*08/06/15 17:59*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*95 %*		*1-184*		*EDH0076*	CDH	*08/06/15 17:59*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EDH0076	FJM	08/06/15 12:28	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

08012015 B

E5H0002-02 (Aqueous) - Sampled: 08/01/15 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<0.327	0.327	10.0	ug/L	1	EDH0076	CDH	08/06/15 18:39	EPA 8270D	
Pentachlorophenol	<1.19	1.19	10.0	ug/L	1	EDH0076	CDH	08/06/15 18:39	EPA 8270D	
Surrogate: 2-Fluorophenol		*41 %*		*1-156*		*EDH0076*	CDH	*08/06/15 18:39*	*EPA 8270D*	
Surrogate: Phenol-d5		*62 %*		*1-146*		*EDH0076*	CDH	*08/06/15 18:39*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*75 %*		*11.1-118*		*EDH0076*	CDH	*08/06/15 18:39*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*63 %*		*14-134*		*EDH0076*	CDH	*08/06/15 18:39*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*84 %*		*20.9-145*		*EDH0076*	CDH	*08/06/15 18:39*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*101 %*		*1-184*		*EDH0076*	CDH	*08/06/15 18:39*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EDH0076	FJM	08/06/15 12:28	EPA 3520C	

NVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

08012015 C

E5H0002-03 (Aqueous) - Sampled: 08/01/15 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<0.352	0.352	10.8	ug/L	1.08	EDH0076	CDH	08/06/15 19:19	EPA 8270D	
Pentachlorophenol	<1.28	1.28	10.8	ug/L	1.08	EDH0076	CDH	08/06/15 19:19	EPA 8270D	
Surrogate: 2-Fluorophenol	*4 %*			*1-156*		*EDH0076*	CDH	*08/06/15 19:19*	*EPA 8270D*	
Surrogate: Phenol-d5	*3 %*			*1-146*		*EDH0076*	CDH	*08/06/15 19:19*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5	*56 %*			*11.1-118*		*EDH0076*	CDH	*08/06/15 19:19*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl	*61 %*			*14-134*		*EDH0076*	CDH	*08/06/15 19:19*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol	*27 %*			*20.9-145*		*EDH0076*	CDH	*08/06/15 19:19*	*EPA 8270D*	
Surrogate: Terphenyl-d14	*100 %*			*1-184*		*EDH0076*	CDH	*08/06/15 19:19*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EDH0076	FJM	08/06/15 12:28	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

08012015 D

E5H0002-04 (Aqueous) - Sampled: 08/01/15 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<0.363	0.363	11.1	ug/L	1.11	EDH0076	CDH	08/06/15 19:58	EPA 8270D	
Pentachlorophenol	<1.32	1.32	11.1	ug/L	1.11	EDH0076	CDH	08/06/15 19:58	EPA 8270D	
Surrogate: 2-Fluorophenol			*25 %*		*1-156*	*EDH0076*	CDH	*08/06/15 19:58*	*EPA 8270D*	
Surrogate: Phenol-d5			*44 %*		*1-146*	*EDH0076*	CDH	*08/06/15 19:58*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5			*64 %*		*11.1-118*	*EDH0076*	CDH	*08/06/15 19:58*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*51 %*		*14-134*	*EDH0076*	CDH	*08/06/15 19:58*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol			*80 %*		*20.9-145*	*EDH0076*	CDH	*08/06/15 19:58*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*97 %*		*1-184*	*EDH0076*	CDH	*08/06/15 19:58*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EDH0076	FJM	08/06/15 12:28	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

NVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

08012015 E

E5H0002-05 (Aqueous) - Sampled: 08/01/15 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<0.327	0.327	10.0	ug/L	1	EDH0076	CDH	08/06/15 20:38	EPA 8270D	
Pentachlorophenol	<1.19	1.19	10.0	ug/L	1	EDH0076	CDH	08/06/15 20:38	EPA 8270D	
Surrogate: 2-Fluorophenol			*64 %*	*1-156*		*EDH0076*	CDH	*08/06/15 20:38*	*EPA 8270D*	
Surrogate: Phenol-d5			*70 %*	*1-146*		*EDH0076*	CDH	*08/06/15 20:38*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5			*74 %*	*11.1-118*		*EDH0076*	CDH	*08/06/15 20:38*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*60 %*	*14-134*		*EDH0076*	CDH	*08/06/15 20:38*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol			*88 %*	*20.9-145*		*EDH0076*	CDH	*08/06/15 20:38*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*106 %*	*1-184*		*EDH0076*	CDH	*08/06/15 20:38*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EDH0076	FJM	08/06/15 12:28	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

08012015 F

E5H0002-06 (Aqueous) - Sampled: 08/01/15 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<0.363	0.363	11.1	ug/L	1.11	EDH0076	CDH	08/06/15 21:17	EPA 8270D	
Pentachlorophenol	<1.32	1.32	11.1	ug/L	1.11	EDH0076	CDH	08/06/15 21:17	EPA 8270D	
Surrogate: 2-Fluorophenol			*40 %*		*1-156*	*EDH0076*	CDH	*08/06/15 21:17*	*EPA 8270D*	
Surrogate: Phenol-d5			*61 %*		*1-146*	*EDH0076*	CDH	*08/06/15 21:17*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5			*75 %*		*11.1-118*	*EDH0076*	CDH	*08/06/15 21:17*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*65 %*		*14-134*	*EDH0076*	CDH	*08/06/15 21:17*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol			*93 %*		*20.9-145*	*EDH0076*	CDH	*08/06/15 21:17*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*104 %*		*1-184*	*EDH0076*	CDH	*08/06/15 21:17*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EDH0076	FJM	08/06/15 12:28	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

Semivolatile Organic Compounds by EPA Method 8270 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDH0076 - EPA 3520 TCLP										
Blank (EDH0076-BLK1)				Prepared: 08/04/15 Analyzed: 08/06/15						
Naphthalene	<20.0	20.0	ug/L							
Pentachlorophenol	<20.0	20.0	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*69.4*		ug/L	*200*		*35*	*1-156*			
Surrogate: Phenol-d5	*104*		ug/L	*200*		*52*	*1-146*			
Surrogate: Nitrobenzene-d5	*62.9*		ug/L	*100*		*63*	*11.1-118*			
Surrogate: 2-Fluorobiphenyl	*56.4*		ug/L	*100*		*56*	*14-134*			
Surrogate: 2,4,6-Tribromophenol	*154*		ug/L	*200*		*77*	*20.9-145*			
Surrogate: Terphenyl-d14	*90.3*		ug/L	*100*		*90*	*1-184*			
LCS (EDH0076-BS1)				Prepared: 08/04/15 Analyzed: 08/06/15						
Naphthalene	29.0	10.0	ug/L	50.0		58	42.4-89.2			
Pentachlorophenol	77.3	10.0	ug/L	100		77	27.3-89.6			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*52.0*		ug/L	*100*		*52*	*1-156*			
Surrogate: Phenol-d5	*67.5*		ug/L	*100*		*68*	*1-146*			
Surrogate: Nitrobenzene-d5	*34.5*		ug/L	*50.0*		*69*	*11.1-118*			
Surrogate: 2-Fluorobiphenyl	*28.9*		ug/L	*50.0*		*58*	*14-134*			
Surrogate: 2,4,6-Tribromophenol	*87.2*		ug/L	*100*		*87*	*20.9-145*			
Surrogate: Terphenyl-d14	*46.3*		ug/L	*50.0*		*93*	*1-184*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2016
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2016
ODEQ	Oklahoma Accredited	2014-169	08/31/2015
TCEQ	Texas Accredited	T104704498-15-5	03/31/2016

Environmental Testing, Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/10/15 07:56

Qualifiers and Definitions

COM	Completed
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
.x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E5H0002

Black and Associates Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 2, 2015

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745 . Also, please send a copy of results to J. J. Black.

Please analyze 08012015 A-F for pentachlorophenol and naphthalene.

All samples are liquid.

1 08012015 A
2 B
3 C
4 D
5 E
6 F

E5H0002

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
08012015 A-F	August 1, 2015	hours

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	**Witness(es)**
J. J. Black	

Remarks: Rec'd on ice @ 0.6°C E00184

Received on Ice (4° C)

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	Jerry J. Black	August 3, 2015	0736 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E5H0002

Environmental Testing, Inc.

Printed: 8/3/2015 9:00:50AM

Client:	**Mixon Brothers Wood Preserving, Inc.**	**Project Manager:**	**Russell Britten**
Project:	**Mixon Brothers Ground Water Monitoring**	**Project Number:**	**RCRA Annual Sampling**

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone :(580) 286-9494
Fax: n/a

Date Due:	08/10/15 17:00 (5 day TAT)		
Received By:	Russell Britten	Date Received:	08/03/15 07:36
Logged In By:	Cassandra Woody	Date Logged In:	08/03/15 08:47

Samples Received at:		0.6°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_ETIwpres_rev0.6.rpt

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

23 September 2016

Mr. Bob Mixon

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E6I0021
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 09/01/16 12:19. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

08312016 A

E610021-01 (Aqueous) - Sampled: 08/31/16 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EEI0024	CDH	09/06/16 11:37	EPA 8041A	
Surrogate: Decachlorobiphenyl		*117 %*		*70-130*		*EEI0024*	CDH	*09/06/16 11:37*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EEI0024	FJM	09/02/16 14:14	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<2.00	2.00	10.0	ug/L	1	EEI0022	CDH	09/02/16 16:33	EPA 8270D	
Surrogate: Nitrobenzene-d5		*76 %*		*11.1-118*		*EEI0022*	CDH	*09/02/16 16:33*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*75 %*		*14-134*		*EEI0022*	CDH	*09/02/16 16:33*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*22 %*		*1-184*		*EEI0022*	CDH	*09/02/16 16:33*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EEI0022	FJM	09/02/16 14:14	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

08312016 B

E610021-02 (Aqueous) - Sampled: 08/31/16 00:00

Environmental Testing, Inc.

Phenols by EPA Method 8041

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EE10024	CDH	09/06/16 12:08	EPA 8041A	
Surrogate: Decachlorobiphenyl			*102 %*		*70-130*	*EE10024*	CDH	*09/06/16 12:08*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EE10024	FJM	09/02/16 14:14	EPA 3520C	

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EE10022	CDH	09/02/16 17:06	EPA 8270D	
Surrogate: Nitrobenzene-d5			*76 %*		*11.1-118*	*EE10022*	CDH	*09/02/16 17:06*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*76 %*		*14-134*	*EE10022*	CDH	*09/02/16 17:06*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*89 %*		*1-184*	*EE10022*	CDH	*09/02/16 17:06*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EE10022	FJM	09/02/16 14:14	EPA 3520C	

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

08312016 C

E6I0021-03 (Aqueous) - Sampled: 08/31/16 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EEI0024	CDH	09/06/16 12:39	EPA 8041A	
Surrogate: Decachlorobiphenyl			*98 %*		*70-130*	*EEI0024*	CDH	*09/06/16 12:39*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EEI0024	FJM	09/02/16 14:14	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<2.00	2.00	10.0	ug/L	1	EEI0022	CDH	09/02/16 17:39	EPA 8270D	
Surrogate: Nitrobenzene-d5			*72 %*		*11.1-118*	*EEI0022*	CDH	*09/02/16 17:39*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*72 %*		*14-134*	*EEI0022*	CDH	*09/02/16 17:39*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*20 %*		*1-184*	*EEI0022*	CDH	*09/02/16 17:39*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EEI0022	FJM	09/02/16 14:14	EPA 3520C	

vironmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

08312016 D

E610021-04 (Aqueous) - Sampled: 08/31/16 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Phenols by EPA Method 8041

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Pentachlorophenol	33.2	1.00	1.00	ug/L	400	EE10024	CDH	09/06/16 16:14	EPA 8041A	
Surrogate: Decachlorobiphenyl			*98 %*		*70-130*	*EE10024*	CDH	*09/06/16 13:09*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EE10024	FJM	09/02/16 14:14	EPA 3520C	

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EE10022	CDH	09/02/16 18:12	EPA 8270D	
Surrogate: Nitrobenzene-d5			*74 %*		*11.1-118*	*EE10022*	CDH	*09/02/16 18:12*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*75 %*		*14-134*	*EE10022*	CDH	*09/02/16 18:12*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*12 %*		*1-184*	*EE10022*	CDH	*09/02/16 18:12*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EE10022	FJM	09/02/16 14:14	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

08312016 E

E610021-05 (Aqueous) - Sampled: 08/31/16 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EE10024	CDH	09/06/16 13:40	EPA 8041A	
Surrogate: Decachlorobiphenyl			*96 %*		*70-130*	*EE10024*	CDH	*09/06/16 13:40*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EE10024	FJM	09/02/16 14:14	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<2.00	2.00	10.0	ug/L	1	EE10022	CDH	09/02/16 18:45	EPA 8270D	
Surrogate: Nitrobenzene-d5			*79 %*		*11.1-118*	*EE10022*	CDH	*09/02/16 18:45*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*80 %*		*14-134*	*EE10022*	CDH	*09/02/16 18:45*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*90 %*		*1-184*	*EE10022*	CDH	*09/02/16 18:45*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EE10022	FJM	09/02/16 14:14	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

08312016 F

E610021-06 (Aqueous) - Sampled: 08/31/16 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.										
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EE10024	CDH	09/06/16 16:45	EPA 8041A	
Surrogate: Decachlorobiphenyl			*110 %*		*70-130*	*EE10024*	CDH	*09/06/16 16:45*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EE10024	FJM	09/02/16 14:14	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<2.00	2.00	10.0	ug/L	1	EE10022	CDH	09/02/16 19:18	EPA 8270D	
Surrogate: Nitrobenzene-d5			*72 %*		*11.1-118*	*EE10022*	CDH	*09/02/16 19:18*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl			*77 %*		*14-134*	*EE10022*	CDH	*09/02/16 19:18*	*EPA 8270D*	
Surrogate: Terphenyl-d14			*30 %*		*1-184*	*EE10022*	CDH	*09/02/16 19:18*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed			N/A		EE10022	FJM	09/02/16 14:14	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

Phenols by EPA Method 8041 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EEI0024 - EPA 3520										
Blank (EEI0024-BLK1)				Prepared: 09/01/16 Analyzed: 09/06/16						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0930*		ug/L	*0.0800*		*116*	*70-130*			
LCS (EEI0024-BS1)				Prepared: 09/01/16 Analyzed: 09/06/16						
Pentachlorophenol	0.224	1.00	ug/L	0.300		75	80-120			L-01
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0782*		ug/L	*0.0800*		*98*	*70-130*			
Batch EEI0154 - EPA 3520										
Blank (EEI0154-BLK1)				Prepared: 09/08/16 Analyzed: 09/09/16						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0818*		ug/L	*0.0800*		*102*	*70-130*			
LCS (EEI0154-BS1)				Prepared: 09/08/16 Analyzed: 09/09/16						
Pentachlorophenol	0.0649	1.00	ug/L	0.0750		87	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0769*		ug/L	*0.0800*		*96*	*70-130*			

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

Semivolatile Organic Compounds by EPA Method 8270 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EE10022 - EPA 3520 TCLP										
Blank (EE10022-BLK1)				Prepared: 09/01/16 Analyzed: 09/02/16						
Naphthalene	0.895	10.0	ug/L							J
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*41.1*		ug/L	*50.0*		*82*	*11.1-118*			
Surrogate: 2-Fluorobiphenyl	*40.3*		ug/L	*50.0*		*81*	*14-134*			
Surrogate: Terphenyl-d14	*52.1*		ug/L	*50.0*		*104*	*1-184*			
LCS (EE10022-BS1)				Prepared: 09/01/16 Analyzed: 09/02/16						
Naphthalene	36.8	10.0	ug/L	50.0		74	42.4-89.2			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*39.4*		ug/L	*50.0*		*79*	*11.1-118*			
Surrogate: 2-Fluorobiphenyl	*40.3*		ug/L	*50.0*		*81*	*14-134*			
Surrogate: Terphenyl-d14	*46.7*		ug/L	*50.0*		*93*	*1-184*			

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2017
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2017
ODEQ	Oklahoma Accredited	2016-009	08/31/2017
TCEQ	Texas Accredited	T104704498-16-6	03/31/2017

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/23/16 09:48

Qualifiers and Definitions

COM	Completed
J	Target analyte detected but below the reporting limit; therefore, result is an estimated concentration.
L-01	The laboratory control spike recovery was lower than expected.
S-03	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

Environmental Testing, Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

a6I0021

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

September 1, 2016

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745 . Also, please send a copy of results to J. J. Black.

Please analyze 08312016 A-F for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270, 2 µg/L).

08312016 A-F are liquid samples.

9LUI0021

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
08312016 A-F	August 31, 2016	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	**Witness(es)**
J. J. Black	

Remarks:

Received on Ice (4° C) 1.2°C on i a 9000784

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	Jerry J. Black	September 1, 2016	1219 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E6I0021

Environmental Testing, Inc.

Client:	Mixon Brothers Wood Preserving, Inc.	Project Manager:	Russell Britten
Project:	Mixon Brothers Ground Water Monitoring	Project Number:	RCRA Annual Sampling

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Jerry Black
1202 NW 16th St.
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	09/09/16 17:00 (5 day TAT)		
Received By:	Andra Hoot	Date Received:	09/01/16 12:19
Logged In By:	Andra Hoot	Date Logged In:	09/01/16 13:17

Samples Received at:		1.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_ETIwpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

05 October 2016

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E6I0531
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 09/29/16 15:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
President

Original

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	10/05/16 09:42

09282016A

E610531-01 (Aqueous) - Sampled: 09/28/16 00:00

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041									
Pentachlorophenol	<1.00	1.00	ug/L	1.06	EEJ0017	CDH	10/04/16 13:26	EPA 8041A	
Surrogate: Decachlorobiphenyl		*106 %*		*70-130*	*EEJ0017*	CDH	*10/04/16 13:26*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed		N/A		EEJ0017	FJM	10/04/16 10:13	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

Original
ETI OKC FINAL COC PDF MBL_rev 3

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	10/05/16 09:42

09282016B

E610531-02 (Aqueous) - Sampled: 09/28/16 00:00

Environmental Testing, Inc.

Phenols by EPA Method 8041

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Pentachlorophenol	**95.0**	1.00	ug/L	800	EEJ0017	CDH	10/04/16 15:38	EPA 8041A	
Surrogate: Decachlorobiphenyl		*%*		*70-130*	*EEJ0017*	CDH	*10/04/16 15:38*	*EPA 8041A*	*S-03*
Liquid-Liquid Extraction	Completed		N/A		EEJ0017	FJM	10/04/16 10:13	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	10/05/16 09:42

Phenols by EPA Method 8041 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EEJ0017 - EPA 3520										
Blank (EEJ0017-BLK1)				Prepared: 10/03/16 Analyzed: 10/04/16						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0791*		ug/L	*0.0800*		*99*	*70-130*			
LCS (EEJ0017-BS1)				Prepared: 10/03/16 Analyzed: 10/04/16						
Pentachlorophenol	0.0808	1.00	ug/L	0.0750		108	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0885*		ug/L	*0.0800*		*111*	*70-130*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	10/05/16 09:42

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2017
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2017
ODEQ	Oklahoma Accredited	2016-009	08/31/2017
TCEQ	Texas Accredited	T104704498-16-6	03/31/2017

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	10/05/16 09:42

Qualifiers and Definitions

COM	Completed
S-03	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

16I0531

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

September 29, 2016

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 09282016 A & B for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L).

1 2

09282016 A & B are liquid samples.

E6I0531

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
09282016 A & B	September 28, 2016	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	**Witness(es)**
Bob Mixon	

Remarks: RCVD @ 0.2°C E00184

Received on Ice (4° C) on ice

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	Jerry J. Black	September 29, 2016	1540 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E610531

Environmental Testing, Inc.

Printed: 9/29/2016 4:01:56PM

Client:	Mixon Brothers Wood Preserving, Inc.	**Project Manager:**	Russell Britten
Project:	Mixon Brothers Ground Water Monitoring	**Project Number:**	RCRA Annual Sampling

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	10/06/16 17:00 (5 day TAT)		
Received By:	Cassandra Colon	Date Received:	09/29/16 15:40
Logged In By:	Cassandra Colon	Date Logged In:	09/29/16 15:49

Samples Received at:		0.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By _______________ Date _______________

Reviewed By _______________ Date _______________

wko_ETIwpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

12 September 2017

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E7H0601
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/29/17 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

Original (P)

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

08282017A

E7H0601-01 (Aqueous) - Sampled: 08/28/17 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EFH0676	CDH	08/30/17 20:34	EPA 8041A	
Surrogate: Decachlorobiphenyl			*95 %*		*70-130*	*EFH0676*	CDH	*08/30/17 20:34*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EFH0676	JGH	08/29/17 14:15	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1.08	EFH0677	CDH	08/30/17 17:29	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*68 %*		*13.8-111*	*EFH0677*	CDH	*08/30/17 17:29*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*73 %*		*20.6-102*	*EFH0677*	CDH	*08/30/17 17:29*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*31 %*		*0-137*	*EFH0677*	CDH	*08/30/17 17:29*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EFH0677	JGH	08/29/17 14:15	EPA 3520C	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

08282017B

E7H0601-02 (Aqueous) - Sampled: 08/28/17 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EFH0676	CDH	08/30/17 21:03	EPA 8041A	
Surrogate: Decachlorobiphenyl			*121 %*		*70-130*	*EFH0676*	CDH	*08/30/17 21:03*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EFH0676	JGH	08/29/17 14:15	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1.1	EFH0677	CDH	08/30/17 18:10	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*67 %*		*13.8-111*	*EFH0677*	CDH	*08/30/17 18:10*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*77 %*		*20.6-102*	*EFH0677*	CDH	*08/30/17 18:10*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*46 %*		*0-137*	*EFH0677*	CDH	*08/30/17 18:10*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EFH0677	JGH	08/29/17 14:15	EPA 3520C	

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

08282017C

E7H0601-03 (Aqueous) - Sampled: 08/28/17 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.08	EFH0676	CDH	08/30/17 21:32	EPA 8041A	
Surrogate: Decachlorobiphenyl			*106 %*		*70-130*	*EFH0676*	CDH	*08/30/17 21:32*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EFH0676	JGH	08/29/17 14:15	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1	EFH0677	CDH	08/30/17 18:51	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*65 %*		*13.8-111*	*EFH0677*	CDH	*08/30/17 18:51*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*80 %*		*20.6-102*	*EFH0677*	CDH	*08/30/17 18:51*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*31 %*		*0-137*	*EFH0677*	CDH	*08/30/17 18:51*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EFH0677	JGH	08/29/17 14:15	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

08282017D

E7H0601-04 (Aqueous) - Sampled: 08/28/17 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EFH0676	CDH	08/30/17 22:01	EPA 8041A	
Surrogate: Decachlorobiphenyl			*103 %*		*70-130*	*EFH0676*	CDH	*08/30/17 22:01*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EFH0676	JGH	08/29/17 14:15	EPA 3520C	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1	EFH0677	CDH	08/30/17 19:31	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*64 %*		*13.8-111*	*EFH0677*	CDH	*08/30/17 19:31*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*73 %*		*20.6-102*	*EFH0677*	CDH	*08/30/17 19:31*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*38 %*		*0-137*	*EFH0677*	CDH	*08/30/17 19:31*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EFH0677	JGH	08/29/17 14:15	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopeus For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

QUALITY CONTROL

Phenols by EPA Method 8041
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFH0676 - EPA 3520										
Blank (EFH0676-BLK1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0798*		ug/L	*0.0800*		*100*	*70-130*			
LCS (EFH0676-BS1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Pentachlorophenol	0.0738	1.00	ug/L	0.0750		98	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0822*		ug/L	*0.0800*		*103*	*70-130*			
LCS Dup (EFH0676-BSD1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Pentachlorophenol	0.0827	1.00	ug/L	0.0750		110	80-120	11	20	
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0881*		ug/L	*0.0800*		*110*	*70-130*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFH0677 - EPA 3520										
Blank (EFH0677-BLK1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Naphthalene	<5.00	5.00	ug/L							
Naphthalene	<5.00	5.00	ug/L							
2-Methylnaphthalene	<1.00	1.00	ug/L							
1-Methylnaphthalene	<1.00	1.00	ug/L							
Acenaphthylene	<1.00	1.00	ug/L							
Acenaphthene	<1.00	1.00	ug/L							
Dibenzofuran	<1.00	1.00	ug/L							
Fluorene	<1.00	1.00	ug/L							
Phenanthrene	<1.00	1.00	ug/L							
Anthracene	<1.00	1.00	ug/L							
Fluoranthene	<1.00	1.00	ug/L							
Pyrene	<1.00	1.00	ug/L							
Benzo(a)anthracene	<1.00	1.00	ug/L							
Chrysene	<0.117	0.117	ug/L							
Benzo(b)fluoranthene	<0.117	0.117	ug/L							
Benzo(k)fluoranthene	<1.00	1.00	ug/L							
Benzo(a)pyrene	<0.200	0.200	ug/L							
Indeno(1,2,3-cd)pyrene	<0.117	0.117	ug/L							
Dibenz(a,h)anthracene	<0.200	0.200	ug/L							
Benzo(g,h,i)perylene	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*35.2*		ug/L	*50.0*		*70*	*13.8-111*			
Surrogate: Nitrobenzene-d5	*35.2*		ug/L	*50.0*		*70*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*35.6*		ug/L	*50.0*		*71*	*20.6-102*			
Surrogate: 2-Fluorobiphenyl	*35.6*		ug/L	*50.0*		*71*	*20.6-102*			
Surrogate: Terphenyl-d14	*21.8*		ug/L	*50.0*		*44*	*0-137*			
Surrogate: Terphenyl-d14	*21.8*		ug/L	*50.0*		*44*	*0-137*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFH0677 - EPA 3520										
LCS (EFH0677-BS1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Naphthalene	31.2	5.00	ug/L	50.0		62	27.7-103			
Naphthalene	31.2	5.00	ug/L	50.0		62	27.7-103			
2-Methylnaphthalene	33.6	1.00	ug/L	50.0		67	8.71-106			
1-Methylnaphthalene	36.8	1.00	ug/L	50.0		74	21.2-102			
Acenaphthylene	37.2	1.00	ug/L	50.0		74	48.2-103			
Acenaphthene	40.2	1.00	ug/L	50.0		80	42.4-109			
Dibenzofuran	39.8	1.00	ug/L	50.0		80	25-114			
Fluorene	39.8	1.00	ug/L	50.0		80	54.7-106			
Phenanthrene	41.7	1.00	ug/L	50.0		83	59.2-116			
Anthracene	40.5	1.00	ug/L	50.0		81	55.8-111			
Fluoranthene	43.7	1.00	ug/L	50.0		87	59.3-121			
Pyrene	46.6	1.00	ug/L	50.0		93	48.2-152			
Benzo(a)anthracene	44.6	1.00	ug/L	50.0		89	50.3-131			
Chrysene	43.5	0.117	ug/L	50.0		87	55.8-126			
Benzo(b)fluoranthene	52.4	0.117	ug/L	50.0		105	73.8-101			L-02
Benzo(k)fluoranthene	50.4	1.00	ug/L	50.0		101	71.3-97			L-02
Benzo(a)pyrene	39.4	0.200	ug/L	50.0		79	62.1-110			
Indeno(1,2,3-cd)pyrene	34.0	0.117	ug/L	50.0		68	71.5-103			L-01
Dibenz(a,h)anthracene	37.6	0.200	ug/L	50.0		75	76.5-108			L-01
Benzo(g,h,i)perylene	33.7	1.00	ug/L	50.0		67	65.6-115			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*32.0*		ug/L	*50.0*		*64*	*13.8-111*			
Surrogate: Nitrobenzene-d5	*32.0*		ug/L	*50.0*		*64*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*36.1*		ug/L	*50.0*		*72*	*20.6-102*			
Surrogate: 2-Fluorobiphenyl	*36.1*		ug/L	*50.0*		*72*	*20.6-102*			
Surrogate: Terphenyl-d14	*45.7*		ug/L	*50.0*		*91*	*0-137*			
Surrogate: Terphenyl-d14	*45.7*		ug/L	*50.0*		*91*	*0-137*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopeus For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFH0677 - EPA 3520										
LCS Dup (EFH0677-BSD1)				Prepared: 08/29/17 Analyzed: 08/30/17						
Naphthalene	33.8	5.00	ug/L	50.0		68	27.7-103	8	20	
Naphthalene	33.8	5.00	ug/L	50.0		68	27.7-103	8	20	
2-Methylnaphthalene	34.3	1.00	ug/L	50.0		69	8.71-106	2	20	
1-Methylnaphthalene	38.0	1.00	ug/L	50.0		76	21.2-102	3	200	
Acenaphthylene	38.1	1.00	ug/L	50.0		76	48.2-103	2	20	
Acenaphthene	41.3	1.00	ug/L	50.0		83	42.4-109	3	20	
Dibenzofuran	40.9	1.00	ug/L	50.0		82	25-114	3	20	
Fluorene	42.5	1.00	ug/L	50.0		85	54.7-106	7	20	
Phenanthrene	43.7	1.00	ug/L	50.0		87	59.2-116	5	20	
Anthracene	40.9	1.00	ug/L	50.0		82	55.8-111	1	20	
Fluoranthene	44.2	1.00	ug/L	50.0		88	59.3-121	1	20	
Pyrene	48.0	1.00	ug/L	50.0		96	48.2-152	3	20	
Benzo(a)anthracene	44.4	1.00	ug/L	50.0		89	50.3-131	0.3	20	
Chrysene	44.3	0.117	ug/L	50.0		89	55.8-126	2	20	
Benzo(b)fluoranthene	51.4	0.117	ug/L	50.0		103	73.8-101	2	20	L-02
Benzo(k)fluoranthene	49.1	1.00	ug/L	50.0		98	71.3-97	3	20	L-02
Benzo(a)pyrene	37.6	0.200	ug/L	50.0		75	62.1-110	5	20	
Indeno(1,2,3-cd)pyrene	32.5	0.117	ug/L	50.0		65	71.5-103	4	20	L-01
Dibenz(a,h)anthracene	36.7	0.200	ug/L	50.0		73	76.5-108	2	20	L-01
Benzo(g,h,i)perylene	31.6	1.00	ug/L	50.0		63	65.6-115	7	20	L-01
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*31.6*		ug/L	*50.0*		*63*	*13.8-111*			
Surrogate: Nitrobenzene-d5	*31.6*		ug/L	*50.0*		*63*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*35.0*		ug/L	*50.0*		*70*	*20.6-102*			
Surrogate: 2-Fluorobiphenyl	*35.0*		ug/L	*50.0*		*70*	*20.6-102*			
Surrogate: Terphenyl-d14	*43.7*		ug/L	*50.0*		*87*	*0-137*			
Surrogate: Terphenyl-d14	*43.7*		ug/L	*50.0*		*87*	*0-137*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2018
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2017-128	08/31/2018
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/12/17 15:06

Qualifiers and Definitions

COM	Completed
L-01	The laboratory control spike recovery was lower than expected. This may cause a low bias to the reported result.
L-02	The laboratory control spike recovery was higher than expected. This may cause a high bias to the reported result.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

Black and Associates
Environmental Consultants, Inc.

E7H0601

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 29, 2017

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745 . Also, please send a copy of results to J. J. Black.

Please analyze 08282017 A-D for pentachlorophenol (Phenols by EPA Method 8041, 1 μg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270, 2 μg/L).

08282017 A-D are liquid samples.

E7H0601

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
08282017 A-D	August 28, 2017	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	Witness(es)
J. J. Black	

Remarks:

Received on Ice (4° C) 1.2°C IU 4007084

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	Jerry J. Black	August 29, 2017	1030 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E7H0601

Environmental Testing, Inc.

Printed: 8/29/2017 10:43:47AM

Client:	**Mixon Brothers Wood Preserving, Inc.**	**Project Manager:**	**Russell Britten**
Project:	**Mixon Brothers Ground Water Monitoring**	**Project Number:**	**RCRA Annual Sampling**

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	09/06/17 17:00 (5 day TAT)		
Received By:	Andra Hoot	Date Received:	08/29/17 10:30
Logged In By:	Cassandra Colon	Date Logged In:	08/29/17 10:35

Samples Received at:		1.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_ETIwpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

26 September 2018

Mr. Bob Mixon
Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E8H0713
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/30/18 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

Original (P)

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK. 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

08292018 A

E8H0713-01 (Aqueous) - Sampled: 08/29/18 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Phenols by EPA Method 8041

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EGI0003	Chris	09/06/18 14:59	EPA 8041A	
Surrogate: Decachlorobiphenyl			*90 %*		*70-130*	*EGI0003*	Chris	*09/06/18 14:59*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EGI0003	FJM	09/01/18 16:00	EPA 3520C 1996	

Semivolatile Organic Compounds by EPA Method 8270 SIM

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	5.00	ug/L	1	EGI0005	CDH	09/05/18 19:22	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*69 %*		*13.8-111*	*EGI0005*	CDH	*09/05/18 19:22*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*70 %*		*20.6-102*	*EGI0005*	CDH	*09/05/18 19:22*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*35 %*		*0-137*	*EGI0005*	CDH	*09/05/18 19:22*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EGI0005	FJM	09/01/18 16:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

08292018 B

E8H0713-02 (Aqueous) - Sampled: 08/29/18 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.04	EGI0003	Chris	09/06/18 15:28	EPA 8041A	
Surrogate: Decachlorobiphenyl			*98 %*		*70-130*	*EGI0003*	Chris	*09/06/18 15:28*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EGI0003	FJM	09/01/18 16:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1	EGI0005	CDH	09/05/18 20:03	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*73 %*		*13.8-111*	*EGI0005*	CDH	*09/05/18 20:03*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*75 %*		*20.6-102*	*EGI0005*	CDH	*09/05/18 20:03*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*92 %*		*0-137*	*EGI0005*	CDH	*09/05/18 20:03*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EGI0005	FJM	09/01/18 16:00	EPA 3520C 1996	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten

Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

08292018 C

E8H0713-03 (Aqueous) - Sampled: 08/29/18 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.04	EGI0003	Chris	09/06/18 15:57	EPA 8041A	
Surrogate: Decachlorobiphenyl			*94 %*		*70-130*	*EGI0003*	Chris	*09/06/18 15:57*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EGI0003	FJM	09/01/18 16:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1	EGI0005	CDH	09/05/18 20:44	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5			*70 %*		*13.8-111*	*EGI0005*	CDH	*09/05/18 20:44*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl			*80 %*		*20.6-102*	*EGI0005*	CDH	*09/05/18 20:44*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14			*22 %*		*0-137*	*EGI0005*	CDH	*09/05/18 20:44*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EGI0005	FJM	09/01/18 16:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

08292018 D

E8H0713-04 (Aqueous) - Sampled: 08/29/18 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.1	EG10003	Chris	09/06/18 16:26	EPA 8041A	
Surrogate: Decachlorobiphenyl		*99 %*		*70-130*		*EG10003*	Chris	*09/06/18 16:26*	*EPA 8041A*	
Liquid-Liquid Extraction	Completed			N/A		EG10003	FJM	09/01/18 16:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1	EG10005	CDH	09/05/18 21:25	EPA 8270D SIM	
Surrogate: Nitrobenzene-d5		*57 %*		*13.8-111*		*EG10005*	CDH	*09/05/18 21:25*	*EPA 8270D SIM*	
Surrogate: 2-Fluorobiphenyl		*58 %*		*20.6-102*		*EG10005*	CDH	*09/05/18 21:25*	*EPA 8270D SIM*	
Surrogate: Terphenyl-d14		*21 %*		*0-137*		*EG10005*	CDH	*09/05/18 21:25*	*EPA 8270D SIM*	
Liquid-Liquid Extraction	Completed			N/A		EG10005	FJM	09/01/18 16:00	EPA 3520C 1996	

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

QUALITY CONTROL

Phenols by EPA Method 8041
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EGI0003 - EPA 3520										
Blank (EGI0003-BLK1)				Prepared: 09/01/18 Analyzed: 09/06/18						
Pentachlorophenol	<1.00	1.00	ug/L							
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0798*		ug/L	*0.0800*		*100*	*70-130*			
Surrogate: Decachlorobiphenyl	*0.0798*		ug/L	*0.0800*		*100*	*70-130*			
LCS (EGI0003-BS1)				Prepared: 09/01/18 Analyzed: 09/06/18						
Pentachlorophenol	0.0740	1.00	ug/L	0.0750		99	80-120			
Pentachlorophenol	0.0740	1.00	ug/L	0.0750		99	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0770*		ug/L	*0.0800*		*96*	*70-130*			
Surrogate: Decachlorobiphenyl	*0.0770*		ug/L	*0.0800*		*96*	*70-130*			
LCS Dup (EGI0003-BSD1)				Prepared: 09/01/18 Analyzed: 09/06/18						
Pentachlorophenol	0.0613	1.00	ug/L	0.0750		82	80-120	19	20	
Pentachlorophenol	0.0613	1.00	ug/L	0.0750		82	80-120	19	20	
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0864*		ug/L	*0.0800*		*108*	*70-130*			
Surrogate: Decachlorobiphenyl	*0.0864*		ug/L	*0.0800*		*108*	*70-130*			

Environmental Testing, Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EG10005 - EPA 3520										
Blank (EG10005-BLK1)				Prepared: 09/01/18 Analyzed: 09/05/18						
Naphthalene	<5.00	5.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*37.2*		ug/L	*50.0*		*74*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*39.9*		ug/L	*50.0*		*80*	*20.6-102*			
Surrogate: Terphenyl-d14	*22.1*		ug/L	*50.0*		*44*	*0-137*			
LCS (EG10005-BS1)				Prepared & Analyzed: 09/01/18						
Liquid-Liquid Extraction	Completed		N/A							
LCS (EG10005-BS2)				Prepared: 09/01/18 Analyzed: 09/05/18						
Naphthalene	33.2	5.00	ug/L	50.0		66	27.7-103			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*29.3*		ug/L	*50.0*		*59*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*35.0*		ug/L	*50.0*		*70*	*20.6-102*			
Surrogate: Terphenyl-d14	*49.0*		ug/L	*50.0*		*98*	*0-137*			
LCS Dup (EG10005-BSD1)				Prepared & Analyzed: 09/01/18						
Liquid-Liquid Extraction	Completed		N/A							
LCS Dup (EG10005-BSD2)				Prepared: 09/01/18 Analyzed: 09/05/18						
Naphthalene	32.5	5.00	ug/L	50.0		65	27.7-103	2	20	
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*28.7*		ug/L	*50.0*		*57*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*34.7*		ug/L	*50.0*		*69*	*20.6-102*			
Surrogate: Terphenyl-d14	*53.2*		ug/L	*50.0*		*106*	*0-137*			

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2019
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2019
NELAP/ODEQ	NELAP Accredited (ODEQ)	2018-167	08/31/2019
TCEQ	Texas Accredited	T104704498-18-8	03/31/2019

ironmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/26/18 13:37

Qualifiers and Definitions

COM	Completed
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Black and Associates
Environmental Consultants, Inc.

E8H0713

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 30, 2018

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745 . Also, please send a copy of results to J. J. Black.

Please analyze 08292018 A-D for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270 SIM, 2 µg/L).

08292018 A-D are liquid samples.

E8H0713

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
08292018 A-D	August 29, 2018	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	Witness(es)
J. J. Black	

Remarks: E00184 on ICE

Received on Ice (4° C) 4.4 - 0.6 = 3.8

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	Jerry J. Black	August 30, 2018	11:40 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	Stephanie Sau	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E8H0713

Environmental Testing, Inc.

Printed: 8/30/2018 12:10:05PM

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Russell Britten**
Project:	**Mixon Brothers Wood Preserving Inc. RCRA Site**	**Project Number:**	**[none]**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	09/07/18 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	08/30/18 11:40
Logged In By:	Andra Hoot	Date Logged In:	08/30/18 12:05

Samples Received at:		3.8°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_ETIwpres_rev0 7 rpt

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

03 September 2019

Mr. Bob Mixon

Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E9H0652
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/29/19 08:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

Original (P)

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

08282019 A

E9H0652-01 (Aqueous) - Sampled: 08/28/19 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	2.13	EHH0842	CDH	09/03/19 10:34	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl			*88 %*		*70-130*	*EHH0842*	CDH	*08/30/19 17:23*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EHH0842	FJM	08/29/19 14:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1.06	EHH0839	CDH	08/30/19 17:10	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5			*70 %*		*13.8-111*	*EHH0839*	CDH	*08/30/19 17:10*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl			*77 %*		*20.6-102*	*EHH0839*	CDH	*08/30/19 17:10*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14			*36 %*		*0-137*	*EHH0839*	CDH	*08/30/19 17:10*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EHH0839	FJM	08/29/19 15:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

08282019 B

E9H0652-02 (Aqueous) - Sampled: 08/28/19 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	3.3	EHH0842	CDH	09/03/19 10:04	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl			*128 %*		*70-130*	*EHH0842*	CDH	*08/30/19 16:53*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EHH0842	FJM	08/29/19 14:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1.05	EHH0839	CDH	08/30/19 16:29	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5			*56 %*		*13.8-111*	*EHH0839*	CDH	*08/30/19 16:29*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl			*68 %*		*20.6-102*	*EHH0839*	CDH	*08/30/19 16:29*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14			*56 %*		*0-137*	*EHH0839*	CDH	*08/30/19 16:29*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EHH0839	FJM	08/29/19 15:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

08282019 C

E9H0652-03 (Aqueous) - Sampled: 08/28/19 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.										
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.09	EHH0842	CDH	08/30/19 16:23	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl			*122 %*		*70-130*	*EHH0842*	CDH	*08/30/19 16:23*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EHH0842	FJM	08/29/19 14:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	5.00	ug/L	1.06	EHH0839	CDH	08/30/19 15:48	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5			*55 %*		*13.8-111*	*EHH0839*	CDH	*08/30/19 15:48*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl			*67 %*		*20.6-102*	*EHH0839*	CDH	*08/30/19 15:48*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14			*58 %*		*0-137*	*EHH0839*	CDH	*08/30/19 15:48*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EHH0839	FJM	08/29/19 15:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

08282019 D

E9H0652-04 (Aqueous) - Sampled: 08/28/19 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Phenols by EPA Method 8041

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.05	EHH0842	CDH	08/30/19 15:53	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl		*128 %*		*70-130*		*EHH0842*	CDH	*08/30/19 15:53*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EHH0842	FJM	08/29/19 14:00	EPA 3520C 1996	

Semivolatile Organic Compounds by EPA Method 8270 SIM

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	5.00	ug/L	1.11	EHH0839	CDH	08/30/19 15:07	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5		*58 %*		*13.8-111*		*EHH0839*	CDH	*08/30/19 15:07*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl		*71 %*		*20.6-102*		*EHH0839*	CDH	*08/30/19 15:07*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14		*47 %*		*0-137*		*EHH0839*	CDH	*08/30/19 15:07*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EHH0839	FJM	08/29/19 15:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

QUALITY CONTROL

Phenols by EPA Method 8041
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHH0842 - EPA 3520										
Blank (EHH0842-BLK1)				Prepared: 08/29/19 Analyzed: 08/30/19						
Pentachlorophenol	<1.00	1.00	ug/L							
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0851*		ug/L	*0.08000*		*106*	*70-130*			
Surrogate: Decachlorobiphenyl	*0.0851*		ug/L	*0.08000*		*106*	*70-130*			
LCS (EHH0842-BS1)				Prepared: 08/29/19 Analyzed: 08/30/19						
Pentachlorophenol	0.0881	1.00	ug/L	0.07500		117	80-120			
Pentachlorophenol	0.0881	1.00	ug/L	0.07500		117	80-120			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0890*		ug/L	*0.08000*		*111*	*70-130*			
Surrogate: Decachlorobiphenyl	*0.0890*		ug/L	*0.08000*		*111*	*70-130*			
Dup (EHH0842-BSD1)				Prepared: 08/29/19 Analyzed: 08/30/19						
Pentachlorophenol	0.0852	1.00	ug/L	0.07500		114	80-120	3	20	
Pentachlorophenol	0.0852	1.00	ug/L	0.07500		114	80-120	3	20	
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0969*		ug/L	*0.08000*		*121*	*70-130*			
Surrogate: Decachlorobiphenyl	*0.0969*		ug/L	*0.08000*		*121*	*70-130*			

ironmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHH0839 - EPA 3520										
Blank (EHH0839-BLK1)				Prepared: 08/29/19 Analyzed: 08/30/19						
Naphthalene	<5.00	5.00	ug/L							
Naphthalene	0.0720	5.00	ug/L							J
2-Methylnaphthalene	<1.00	1.00	ug/L							
Acenaphthylene	<1.00	1.00	ug/L							
Acenaphthene	<1.00	1.00	ug/L							
Fluorene	<1.00	1.00	ug/L							
Phenanthrene	<1.00	1.00	ug/L							
Anthracene	<1.00	1.00	ug/L							
Fluoranthene	<1.00	1.00	ug/L							
Pyrene	<1.00	1.00	ug/L							
Benzo(a)anthracene	<1.00	1.00	ug/L							
Chrysene	<0.117	0.117	ug/L							
Benzo(b)fluoranthene	<0.117	0.117	ug/L							
Benzo(k)fluoranthene	<1.00	1.00	ug/L							
Benzo(a)pyrene	<0.200	0.200	ug/L							
Indeno(1,2,3-cd)pyrene	<0.117	0.117	ug/L							
Dibenz(a,h)anthracene	<0.200	0.200	ug/L							
Benzo(g,h,i)perylene	<1.00	1.00	ug/L							
1-Methylnaphthalene	<1.00	1.00	ug/L							
Dibenzofuran	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*30.9*		ug/L	*50.00*		*62*	*13.8-111*			
Surrogate: Nitrobenzene-d5	*30.9*		ug/L	*50.00*		*62*	*6.81-106*			
Surrogate: 2-Fluorobiphenyl	*33.5*		ug/L	*50.00*		*67*	*20.6-102*			
Surrogate: 2-Fluorobiphenyl	*33.5*		ug/L	*50.00*		*67*	*13.6-123*			
Surrogate: Terphenyl-d14	*40.5*		ug/L	*50.00*		*81*	*0-137*			
Surrogate: Terphenyl-d14	*40.5*		ug/L	*50.00*		*81*	*0-128*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHH0839 - EPA 3520										
LCS (EHH0839-BS1)				Prepared: 08/29/19 Analyzed: 08/30/19						
Naphthalene	29.0	5.00	ug/L	50.00		58	27.7-103			
Naphthalene	29.0	5.00	ug/L	50.00		58	49.6-92.4			
2-Methylnaphthalene	31.8	1.00	ug/L	50.00		64	52-99.6			
Acenaphthylene	35.0	1.00	ug/L	50.00		70	60.9-116			
Acenaphthene	39.9	1.00	ug/L	50.00		80	54.4-135			
Fluorene	39.0	1.00	ug/L	50.00		78	69.9-130			
Phenanthrene	42.1	1.00	ug/L	50.00		84	66.9-120			
Anthracene	42.4	1.00	ug/L	50.00		85	65.3-118			
Fluoranthene	41.0	1.00	ug/L	50.00		82	73.6-119			
Pyrene	51.7	1.00	ug/L	50.00		103	50.9-137			
Benzo(a)anthracene	47.1	1.00	ug/L	50.00		94	66-126			
Chrysene	51.3	0.117	ug/L	50.00		103	72.5-127			
Benzo(b)fluoranthene	46.8	0.117	ug/L	50.00		94	70.5-131			
Benzo(k)fluoranthene	47.3	1.00	ug/L	50.00		95	64.4-131			
Benzo(a)pyrene	37.7	0.200	ug/L	50.00		75	66.2-113			
Indeno(1,2,3-cd)pyrene	42.6	0.117	ug/L	50.00		85	65-126			
Dibenz(a,h)anthracene	45.7	0.200	ug/L	50.00		91	74-125			
Benzo(g,h,i)perylene	42.4	1.00	ug/L	50.00		85	59.2-126			
1-Methylnaphthalene	34.5	1.00	ug/L	50.00		69	51.2-98.3			
Dibenzofuran	38.0	1.00	ug/L	50.00		76	66.2-126			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*30.5*		ug/L	*50.00*		*61*	*13.8-111*			
Surrogate: Nitrobenzene-d5	*30.5*		ug/L	*50.00*		*61*	*6.81-106*			
Surrogate: 2-Fluorobiphenyl	*35.4*		ug/L	*50.00*		*71*	*13.6-123*			
Surrogate: 2-Fluorobiphenyl	*35.4*		ug/L	*50.00*		*71*	*20.6-102*			
Surrogate: Terphenyl-d14	*52.9*		ug/L	*50.00*		*106*	*0-128*			
Surrogate: Terphenyl-d14	*52.9*		ug/L	*50.00*		*106*	*0-137*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHH0839 - EPA 3520										
LCS Dup (EHH0839-BSD1)				Prepared: 08/29/19 Analyzed: 08/30/19						
Naphthalene	24.1	5.00	ug/L	50.00		48	27.7-103	19	20	
Naphthalene	24.1	5.00	ug/L	50.00		48	49.6-92.4	19	20	L-01
2-Methylnaphthalene	26.1	1.00	ug/L	50.00		52	52-99.6	20	20	
Acenaphthylene	29.4	1.00	ug/L	50.00		59	60.9-116	17	20	L-01
Acenaphthene	28.9	1.00	ug/L	50.00		58	54.4-135	32	20	L-03
Fluorene	34.1	1.00	ug/L	50.00		68	69.9-130	13	20	L-01
Phenanthrene	40.6	1.00	ug/L	50.00		81	66.9-120	4	20	
Anthracene	40.3	1.00	ug/L	50.00		81	65.3-118	5	20	
Fluoranthene	40.2	1.00	ug/L	50.00		80	73.6-119	2	20	
Pyrene	40.9	1.00	ug/L	50.00		82	50.9-137	23	20	L-03
Benzo(a)anthracene	40.7	1.00	ug/L	50.00		81	66-126	15	20	
Chrysene	48.7	0.117	ug/L	50.00		97	72.5-127	5	20	
Benzo(b)fluoranthene	44.4	0.117	ug/L	50.00		89	70.5-131	5	20	
Benzo(k)fluoranthene	43.9	1.00	ug/L	50.00		88	64.4-131	8	20	
Benzo(a)pyrene	40.3	0.200	ug/L	50.00		81	66.2-113	7	20	
Indeno(1,2,3-cd)pyrene	51.2	0.117	ug/L	50.00		102	65-126	18	20	
Dibenz(a,h)anthracene	55.6	0.200	ug/L	50.00		111	74-125	20	20	
Benzo(g,h,i)perylene	54.2	1.00	ug/L	50.00		108	59.2-126	24	20	L-03
1-Methylnaphthalene	25.8	1.00	ug/L	50.00		52	51.2-98.3	29	200	
Dibenzofuran	31.0	1.00	ug/L	50.00		62	66.2-126	20	20	L-01
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*26.6*		ug/L	*50.00*		*53*	*6.81-106*			
Surrogate: Nitrobenzene-d5	*26.6*		ug/L	*50.00*		*53*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*29.3*		ug/L	*50.00*		*59*	*20.6-102*			
Surrogate: 2-Fluorobiphenyl	*29.3*		ug/L	*50.00*		*59*	*13.6-123*			
Surrogate: Terphenyl-d14	*42.0*		ug/L	*50.00*		*84*	*0-137*			
Surrogate: Terphenyl-d14	*42.0*		ug/L	*50.00*		*84*	*0-128*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2020
NELAP/LA	NELAP Accredited (LDEQ)	10002	06/30/2020
TCEQ	Texas Accedited (TCEQ)	T104704498-19-9	03/31/2020

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/19 16:24

Qualifiers and Definitions

COM	Completed
J	Target analyte detected but below the reporting limit; therefore, result is an estimated concentration.
L-01	The laboratory control spike recovery was lower than expected. This may cause a low bias to the reported result.
L-03	The laboratory control spike RPD was higher than expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

G9HD652

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 29, 2019

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 08282019 A-D for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270 SIM, 2 µg/L).

08282019 A-D are liquid samples.

99H0652

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
08282019 A-D	August 28, 2019	

Site I.D. (station):

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	Witness(es)
J. J. Black	

Remarks:

Received on Ice (4° C) 0.2-0.4 — -0.4

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	Jerry J. Black	August 29, 2019	8:47 8-29-19 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	Stephanie Saul	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E9H0652

Printed: 8/29/2019 8:57:26AM

Environmental Testing, Inc.

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**Mixon Brothers Ground Water Monitoring**	**Project Number:**	**RCRA Annual Sampling**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	09/06/19 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	08/29/19 08:47
Logged In By:	Andra Hoot	Date Logged In:	08/29/19 08:53

Samples Received at:		-0.4°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_EOC_wpres_rev3.0.rpt

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

03 September 2020

Mr. Bob Mixon
Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E0H0510
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/27/20 15:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Vandersee For Russell Britten
President

Original (P)

E0H0510

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

08262020 A

E0H0510-01 (Aqueous) - Sampled: 08/26/20 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EIH0680	CDH	09/01/20 12:26	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl			*87 %*		*70-130*	*EIH0680*	CDH	*09/01/20 12:26*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EIH0680	FJM	08/31/20 13:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	2.00		1	EIH0682	CDH	09/01/20 13:00	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5			*64 %*		*6.81-106*	*EIH0682*	CDH	*09/01/20 13:00*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl			*74 %*		*13.6-123*	*EIH0682*	CDH	*09/01/20 13:00*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14			*53 %*		*0-128*	*EIH0682*	CDH	*09/01/20 13:00*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EIH0682	FJM	08/31/20 13:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

08262020 B

E0H0510-02 (Aqueous) - Sampled: 08/26/20 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.1	EIH0680	CDH	09/01/20 12:55	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl		*57 %*		*70-130*		*EIH0680*	CDH	*09/01/20 12:55*	*EPA 8041A 2007*	*S-05*
Liquid-Liquid Extraction	Completed			N/A		EIH0680	FJM	08/31/20 13:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	2.00		1	EIH0682	CDH	09/01/20 13:40	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5		*63 %*		*6.81-106*		*EIH0682*	CDH	*09/01/20 13:40*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl		*64 %*		*13.6-123*		*EIH0682*	CDH	*09/01/20 13:40*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14		*32 %*		*0-128*		*EIH0682*	CDH	*09/01/20 13:40*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EIH0682	FJM	08/31/20 13:00	EPA 3520C 1996	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

08262020 C

E0H0510-03 (Aqueous) - Sampled: 08/26/20 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EIH0680	CDH	09/01/20 13:24	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl		*88 %*		*70-130*		*EIH0680*	CDH	*09/01/20 13:24*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EIH0680	FJM	08/31/20 13:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	2.00		1	EIH0682	CDH	09/01/20 14:21	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5		*64 %*		*6.81-106*		*EIH0682*	CDH	*09/01/20 14:21*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl		*63 %*		*13.6-123*		*EIH0682*	CDH	*09/01/20 14:21*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14		*71 %*		*0-128*		*EIH0682*	CDH	*09/01/20 14:21*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EIH0682	FJM	08/31/20 13:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

08262020 D

E0H0510-04 (Aqueous) - Sampled: 08/26/20 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1.1	EIH0680	CDH	09/01/20 13:53	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl			*83 %*		*70-130*	*EIH0680*	CDH	*09/01/20 13:53*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EIH0680	FJM	08/31/20 13:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	2.00		1.11	EIH0682	CDH	09/01/20 15:02	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5			*65 %*		*6.81-106*	*EIH0682*	CDH	*09/01/20 15:02*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl			*72 %*		*13.6-123*	*EIH0682*	CDH	*09/01/20 15:02*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14			*91 %*		*0-128*	*EIH0682*	CDH	*09/01/20 15:02*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EIH0682	FJM	08/31/20 13:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

08262020 E

E0H0510-05 (Aqueous) - Sampled: 08/26/20 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Phenols by EPA Method 8041										
Pentachlorophenol	<1.00	1.00	1.00	ug/L	1	EIH0680	CDH	09/01/20 14:22	EPA 8041A 2007	
Surrogate: Decachlorobiphenyl			*77 %*		*70-130*	*EIH0680*	CDH	*09/01/20 14:22*	*EPA 8041A 2007*	
Liquid-Liquid Extraction	Completed			N/A		EIH0680	FJM	08/31/20 13:00	EPA 3520C 1996	
Semivolatile Organic Compounds by EPA Method 8270 SIM										
Naphthalene	<2.00	2.00	2.00		1	EIH0682	CDH	09/01/20 15:43	EPA 8270D SIM 2014	
Surrogate: Nitrobenzene-d5			*58 %*		*6.81-106*	*EIH0682*	CDH	*09/01/20 15:43*	*EPA 8270D SIM 2014*	
Surrogate: 2-Fluorobiphenyl			*61 %*		*13.6-123*	*EIH0682*	CDH	*09/01/20 15:43*	*EPA 8270D SIM 2014*	
Surrogate: Terphenyl-d14			*40 %*		*0-128*	*EIH0682*	CDH	*09/01/20 15:43*	*EPA 8270D SIM 2014*	
Liquid-Liquid Extraction	Completed			N/A		EIH0682	FJM	08/31/20 13:00	EPA 3520C 1996	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

QUALITY CONTROL

Phenols by EPA Method 8041

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EIH0680 - EPA 3520										
Blank (EIH0680-BLK1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Pentachlorophenol	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0682*		ug/L	*0.08000*		*85*	*70-130*			
LCS (EIH0680-BS1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Pentachlorophenol	<1.00	1.00	ug/L	0.07500			80-120			L-02
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0694*		ug/L	*0.08000*		*87*	*70-130*			
LCS Dup (EIH0680-BSD1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Pentachlorophenol	<1.00	1.00	ug/L	0.07500			80-120		20	L-03
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Decachlorobiphenyl	*0.0673*		ug/L	*0.08000*		*84*	*70-130*			

Environmental Testing, Inc.

James Vandersee For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EIH0682 - EPA 3520										
Blank (EIH0682-BLK1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Naphthalene	<2.00	2.00	ug/L							
2-Methylnaphthalene	<1.00	1.00	ug/L							
Acenaphthylene	<1.00	1.00	ug/L							
Acenaphthene	<1.00	1.00	ug/L							
Fluorene	<1.00	1.00	ug/L							
Phenanthrene	<1.00	1.00	ug/L							
Anthracene	<1.00	1.00	ug/L							
Fluoranthene	<1.00	1.00	ug/L							
Pyrene	<1.00	1.00	ug/L							
Benzo(a)anthracene	<1.00	1.00	ug/L							
Chrysene	<0.117	0.117	ug/L							
Benzo(b)fluoranthene	<0.117	0.117	ug/L							
Benzo(k)fluoranthene	<1.00	1.00	ug/L							
Benzo(a)pyrene	<0.200	0.200	ug/L							
Indeno(1,2,3-cd)pyrene	<0.117	0.117	ug/L							
Dibenz(a,h)anthracene	<0.200	0.200	ug/L							
Benzo(g,h,i)perylene	<1.00	1.00	ug/L							
1-Methylnaphthalene	<1.00	1.00	ug/L							
Dibenzofuran	<1.00	1.00	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*26.0*		ug/L	*50.00*		*52*	*6.81-106*			
Surrogate: 2-Fluorobiphenyl	*25.5*		ug/L	*50.00*		*51*	*13.6-123*			
Surrogate: Terphenyl-d14	*42.3*		ug/L	*50.00*		*85*	*0-128*			
LCS (EIH0682-BS1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Naphthalene	19.0	2.00	ug/L	50.00		38	49.6-92.4			L-01
2-Methylnaphthalene	21.9	1.00	ug/L	50.00		44	52-99.6			L-01
Acenaphthylene	27.8	1.00	ug/L	50.00		56	60.9-116			L-01
Acenaphthene	27.2	1.00	ug/L	50.00		54	54.4-135			L-01
Fluorene	34.0	1.00	ug/L	50.00		68	69.9-130			L-01
Phenanthrene	37.9	1.00	ug/L	50.00		76	66.9-120			
Anthracene	38.4	1.00	ug/L	50.00		77	65.3-118			
Fluoranthene	37.9	1.00	ug/L	50.00		76	73.6-119			
Pyrene	43.3	1.00	ug/L	50.00		87	50.9-137			
Benzo(a)anthracene	37.8	1.00	ug/L	50.00		76	66-126			
Chrysene	45.3	0.117	ug/L	50.00		91	72.5-127			
Benzo(b)fluoranthene	43.1	0.117	ug/L	50.00		86	70.5-131			
Benzo(k)fluoranthene	43.6	1.00	ug/L	50.00		87	64.4-131			
Benzo(a)pyrene	37.3	0.200	ug/L	50.00		75	66.2-113			
Indeno(1,2,3-cd)pyrene	50.6	0.117	ug/L	50.00		101	65-126			

Environmental Testing, Inc.

James Vandersee For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E0H0510

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270 SIM
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch E1H0682 - EPA 3520										
LCS (E1H0682-BS1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Dibenz(a,h)anthracene	50.6	0.200	ug/L	50.00		101	74-125			
Benzo(g,h,i)perylene	53.6	1.00	ug/L	50.00		107	59.2-126			
1-Methylnaphthalene	23.3	1.00	ug/L	50.00		47	51.2-98.3			L-01
Dibenzofuran	30.9	1.00	ug/L	50.00		62	66.2-126			L-01
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*23.4*		ug/L	*50.00*		*47*	*6.81-106*			
Surrogate: 2-Fluorobiphenyl	*26.6*		ug/L	*50.00*		*53*	*13.6-123*			
Surrogate: Terphenyl-d14	*47.0*		ug/L	*50.00*		*94*	*0-128*			
LCS Dup (E1H0682-BSD1)				Prepared: 08/31/20 Analyzed: 09/01/20						
Naphthalene	25.3	2.00	ug/L	50.00		51	49.6-92.4	28	20	L-03
2-Methylnaphthalene	32.9	1.00	ug/L	50.00		66	52-99.6	40	20	L-03
Acenaphthylene	31.7	1.00	ug/L	50.00		63	60.9-116	13	20	
Acenaphthene	33.9	1.00	ug/L	50.00		68	54.4-135	22	20	L-03
Fluorene	36.0	1.00	ug/L	50.00		72	69.9-130	6	20	
Phenanthrene	40.7	1.00	ug/L	50.00		81	66.9-120	7	20	
Anthracene	38.6	1.00	ug/L	50.00		77	65.3-118	0.6	20	
Fluoranthene	42.4	1.00	ug/L	50.00		85	73.6-119	11	20	
Pyrene	44.4	1.00	ug/L	50.00		89	50.9-137	3	20	
Benzo(a)anthracene	43.1	1.00	ug/L	50.00		86	66-126	13	20	
Chrysene	46.5	0.117	ug/L	50.00		93	72.5-127	3	20	
Benzo(b)fluoranthene	42.3	0.117	ug/L	50.00		85	70.5-131	2	20	
Benzo(k)fluoranthene	40.9	1.00	ug/L	50.00		82	64.4-131	6	20	
Benzo(a)pyrene	36.8	0.200	ug/L	50.00		74	66.2-113	1	20	
Indeno(1,2,3-cd)pyrene	40.5	0.117	ug/L	50.00		81	65-126	22	20	L-03
Dibenz(a,h)anthracene	38.9	0.200	ug/L	50.00		78	74-125	26	20	L-03
Benzo(g,h,i)perylene	38.9	1.00	ug/L	50.00		78	59.2-126	32	20	L-03
1-Methylnaphthalene	34.0	1.00	ug/L	50.00		68	51.2-98.3	37	200	
Dibenzofuran	33.9	1.00	ug/L	50.00		68	66.2-126	9	20	
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: Nitrobenzene-d5	*30.3*		ug/L	*50.00*		*61*	*6.81-106*			
Surrogate: 2-Fluorobiphenyl	*29.5*		ug/L	*50.00*		*59*	*13.6-123*			
Surrogate: Terphenyl-d14	*43.7*		ug/L	*50.00*		*87*	*0-128*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited (KDHE)	E-10401	01/31/2021
NELAP/OK	NELAP Accredited (ODEQ)	2020-069	08/31/2021
TCEQ	Texas Accedited (TCEQ)	T104704498-20-10	03/31/2021

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/03/20 17:33

Qualifiers and Definitions

COM	Completed
L-01	The laboratory control spike recovery was lower than expected. This may cause a low bias to the reported result.
L-02	The laboratory control spike recovery was higher than expected. This may cause a high bias to the reported result.
L-03	The laboratory control spike RPD was higher than expected.
S-05	The surrogate recovery was outside of laboratory control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

Original

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

40AD510

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 27, 2020

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 08262020 A-E for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270 SIM, 2 µg/L).

08262020 A-E are liquid samples.

40H0510

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
08262020 A-E	August 26, 2020	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	**Witness(es)**
J. J. Black	

Remarks:

Received on Ice (4° C) 1.3 +1.3 = 2.6 T1000043 on Ice

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	Jerry J. Black	August 27, 2020	15:08 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	Stan Saul	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

Sample Receipt Form: E0H0510

Printed: 8/27/2020 3:27:44PM

Environmental Testing, Inc.

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**Mixon Brothers Ground Water Monitoring**	**Project Number:**	**RCRA Annual Sampling**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	09/03/20 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	08/27/20 15:08
Logged In By:	Andra Hoot	Date Logged In:	08/27/20 15:25

Samples Received at:		2.6°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_EOC_wpres_rev4.7.rpt

E0H0510

Revised
Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

22 September 2021

Mr. Bob Mixon

Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E1H0367
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/19/21 11:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Vandersee For Russell Britten
President

Revised (P)

E1H0367

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

08182021 A

E1H0367-01 (Aqueous) - Sampled: 08/18/21 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.5	ug/L	1.05	EJH0551	BLS	08/27/21 19:50	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.5	ug/L	1.05	EJH0551	BLS	08/27/21 19:50	EPA 8270D 2007	
Liquid-Liquid Extraction	Completed			N/A		EJH0551	FJM	08/21/21 12:00	EPA 3520C 1996	

ironmental Testing, Inc.

James Vandersee For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

08182021 B

E1H0367-02 (Aqueous) - Sampled: 08/18/21 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.8	ug/L	1.08	EJH0551	BLS	08/27/21 20:51	EPA 8270D 2007	
Pentachlorophenol	**78.8**	1.00	10.8	ug/L	1.08	EJI0049	BLS	09/02/21 14:21	EPA 8270D 2007	
Pentachlorophenol	**107**	1.00	10.8	ug/L	1.08	EJH0551	BLS	08/27/21 20:51	EPA 8270D 2007	
Liquid-Liquid Extraction	Completed			N/A		EJI0049	VAH	08/31/21 16:00	EPA 3520C 1996	H-04
Liquid-Liquid Extraction	Completed			N/A		EJH0551	FJM	08/21/21 12:00	EPA 3520C 1996	

Environmental Testing, Inc.

James Vandersee For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

NVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

08182021 C

E1H0367-03 (Aqueous) - Sampled: 08/18/21 00:00

Environmental Testing, Inc.

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Semivolatile Organic Compounds by EPA Method 8270										
Naphthalene	<2.00	2.00	10.6	ug/L	1.06	EJH0551	BLS	08/27/21 20:21	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.6	ug/L	1.06	EJH0551	BLS	08/27/21 20:21	EPA 8270D 2007	
Liquid-Liquid Extraction	Completed			N/A		EJH0551	FJM	08/21/21 12:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

08182021 D

E1H0367-04 (Aqueous) - Sampled: 08/18/21 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.5	ug/L	1.05	EJH0551	BLS	08/27/21 21:22	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.5	ug/L	1.05	EJH0551	BLS	08/27/21 21:22	EPA 8270D 2007	
Liquid-Liquid Extraction	Completed			N/A		EJH0551	FJM	08/21/21 12:00	EPA 3520C 1996	

Environmental Testing, Inc.

James Vandersee For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E1H0367

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EJH0551 - EPA 3520										
Blank (EJH0551-BLK1)				Prepared: 08/21/21 Analyzed: 08/27/21						
Naphthalene	<10.0	10.0	ug/L							
Pentachlorophenol	<10.0	10.0	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
LCS (EJH0551-BS1)				Prepared: 08/21/21 Analyzed: 08/27/21						
Naphthalene	39.5	10.0	ug/L	50.00		79	27.7-103			
Pentachlorophenol	95.2	10.0	ug/L	100.0		95	37.8-114			
Liquid-Liquid Extraction	Completed		N/A							
LCS Dup (EJH0551-BSD1)				Prepared: 08/21/21 Analyzed: 08/27/21						
Naphthalene	35.8	10.0	ug/L	50.00		72	27.7-103	10	20	
Pentachlorophenol	101	10.0	ug/L	100.0		101	37.8-114	6	20	
Liquid-Liquid Extraction	Completed		N/A							
Batch EJI0049 - EPA 3520										
Blank (EJI0049-BLK1)				Prepared: 08/31/21 Analyzed: 09/02/21						
n-Nitrosodimethylamine	<10.0	10.0	ug/L							
Pyridine	<10.0	10.0	ug/L							
Phenol	<10.0	10.0	ug/L							
Bis(2-chloroethyl)ether	2.06	10.0	ug/L							
2-Chlorophenol	<10.0	10.0	ug/L							
1,3-Dichlorobenzene	<10.0	10.0	ug/L							
1,4-Dichlorobenzene	<10.0	10.0	ug/L							
1,2-Dichlorobenzene	<10.0	10.0	ug/L							
2-Methylphenol	<10.0	10.0	ug/L							
Bis(2-chloroisopropyl)ether	<10.0	10.0	ug/L							
n-Nitrosodi-n-propylamine	1.11	10.0	ug/L							
4-Methylphenol	<10.0	10.0	ug/L							
Hexachloroethane	<10.0	10.0	ug/L							
Nitrobenzene	<10.0	10.0	ug/L							
Isophorone	<10.0	10.0	ug/L							
2-Nitrophenol	<10.0	10.0	ug/L							
2,4-Dimethylphenol	<10.0	10.0	ug/L							
Bis(2-chloroethoxy)methane	<10.0	10.0	ug/L							
2,4-Dichlorophenol	<10.0	10.0	ug/L							
1,2,4-Trichlorobenzene	<10.0	10.0	ug/L							
Naphthalene	<10.0	10.0	ug/L							
Hexachlorobutadiene	<10.0	10.0	ug/L							
4-Chloro-3-methylphenol	<10.0	10.0	ug/L							
Hexachlorocyclopentadiene	<10.0	10.0	ug/L							

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EJ10049 - EPA 3520										
Blank (EJ10049-BLK1)				Prepared: 08/31/21 Analyzed: 09/02/21						
2,4,6-Trichlorophenol	<10.0	10.0	ug/L							
2,4,5-Trichlorophenol	<10.0	10.0	ug/L							
2-Chloronaphthalene	0.681	10.0	ug/L							
Dimethyl phthalate	0.657	10.0	ug/L							
2,6-Dinitrotoluene	<10.0	10.0	ug/L							
Acenaphthylene	1.03	10.0	ug/L							
Acenaphthene	0.854	10.0	ug/L							
2,4-Dinitrophenol	<10.0	10.0	ug/L							
4-Nitrophenol	<10.0	10.0	ug/L							
2,4-Dinitrotoluene	<10.0	10.0	ug/L							
Diethyl phthalate	0.781	10.0	ug/L							
Fluorene	1.06	10.0	ug/L							
4-Chlorophenyl phenyl ether	<10.0	10.0	ug/L							
4,6-Dinitro-2-methylphenol	<10.0	10.0	ug/L							
n-Nitrosodiphenylamine	<10.0	10.0	ug/L							
4-Bromophenyl phenyl ether	<10.0	10.0	ug/L							
Hexachlorobenzene	<10.0	10.0	ug/L							
Pentachlorophenol	<10.0	10.0	ug/L							
Phenanthrene	1.24	10.0	ug/L							
Anthracene	0.640	10.0	ug/L							
Di-n-butyl phthalate	0.926	10.0	ug/L							
Fluoranthene	1.10	10.0	ug/L							
Benzidine	<10.0	10.0	ug/L							
Pyrene	<10.0	10.0	ug/L							
Butyl benzyl phthalate	1.26	10.0	ug/L							
Benzo(a)anthracene	1.06	10.0	ug/L							
3,3'-Dichlorobenzidine	<10.0	10.0	ug/L							
Chrysene	1.33	10.0	ug/L							
Bis(2-ethylhexyl)phthalate	4.12	20.0	ug/L							
Di-n-octyl phthalate	1.87	10.0	ug/L							
Benzo(b)fluoranthene	<10.0	10.0	ug/L							
Benzo(k)fluoranthene	<10.0	10.0	ug/L							
Benzo(a)pyrene	1.23	10.0	ug/L							
Indeno(1,2,3-cd)pyrene	<10.0	10.0	ug/L							
Dibenz(a,h)anthracene	<10.0	10.0	ug/L							
Benzo(g,h,i)perylene	<10.0	10.0	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*68.5*		ug/L	*100.0*		*68*	*0-96.2*			
Surrogate: Phenol-d5	*72.7*		ug/L	*100.0*		*73*	*0-121*			

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EJ10049 - EPA 3520										
Blank (EJ10049-BLK1)				Prepared: 08/31/21 Analyzed: 09/02/21						
Surrogate: Nitrobenzene-d5	*40.9*		ug/L	*50.00*		*82*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*40.6*		ug/L	*50.00*		*81*	*20.6-102*			
Surrogate: 2,4,6-Tribromophenol	*94.5*		ug/L	*100.0*		*95*	*15.6-121*			
Surrogate: Terphenyl-d14	*51.4*		ug/L	*50.00*		*103*	*0-137*			
LCS (EJ10049-BS1)				Prepared: 08/31/21 Analyzed: 09/02/21						
Phenol	24.2	10.0	ug/L	50.00		48	31.8-86			
2-Chlorophenol	20.6	10.0	ug/L	50.00		41	32.8-89			
1,4-Dichlorobenzene	57.7	10.0	ug/L	100.0		58	14.4-84.8			
n-Nitrosodi-n-propylamine	41.5	10.0	ug/L	50.00		83	42.7-111			
1,2,4-Trichlorobenzene	33.9	10.0	ug/L	50.00		68	21.8-99.3			
Naphthalene	36.9	10.0	ug/L	50.00		74	27.7-103			
4-Chloro-3-methylphenol	41.6	10.0	ug/L	50.00		83	32.9-91.8			
Acenaphthene	44.7	10.0	ug/L	50.00		89	42.4-109			
4-Nitrophenol	40.6	10.0	ug/L	50.00		81	33.7-107			
2,4-Dinitrotoluene	110	10.0	ug/L	100.0		110	56.8-120			
Pentachlorophenol	86.1	10.0	ug/L	100.0		86	37.8-114			
Pyrene	50.0	10.0	ug/L	50.00		100	48.2-152			
Benzo(a)anthracene	49.0	10.0	ug/L	50.00		98	50.3-131			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*21.5*		ug/L	*100.0*		*22*	*0-96.2*			
Surrogate: Phenol-d5	*44.4*		ug/L	*100.0*		*44*	*0-121*			
Surrogate: Nitrobenzene-d5	*40.0*		ug/L	*50.00*		*80*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*40.6*		ug/L	*50.00*		*81*	*20.6-102*			
Surrogate: 2,4,6-Tribromophenol	*86.9*		ug/L	*100.0*		*87*	*15.6-121*			
Surrogate: Terphenyl-d14	*48.3*		ug/L	*50.00*		*97*	*0-137*			
LCS Dup (EJ10049-BSD1)				Prepared: 08/31/21 Analyzed: 09/02/21						
Phenol	21.5	10.0	ug/L	50.00		43	31.8-86	12	20	
2-Chlorophenol	19.7	10.0	ug/L	50.00		39	32.8-89	5	20	
1,4-Dichlorobenzene	52.4	10.0	ug/L	100.0		52	14.4-84.8	10	20	
n-Nitrosodi-n-propylamine	39.4	10.0	ug/L	50.00		79	42.7-111	5	20	
1,2,4-Trichlorobenzene	33.1	10.0	ug/L	50.00		66	21.8-99.3	2	20	
Naphthalene	35.6	10.0	ug/L	50.00		71	27.7-103	4	20	
4-Chloro-3-methylphenol	33.7	10.0	ug/L	50.00		67	32.9-91.8	21	20	L-03
Acenaphthene	41.4	10.0	ug/L	50.00		83	42.4-109	8	20	
4-Nitrophenol	38.4	10.0	ug/L	50.00		77	33.7-107	5	20	
2,4-Dinitrotoluene	100	10.0	ug/L	100.0		100	56.8-120	9	20	
Pentachlorophenol	73.7	10.0	ug/L	100.0		74	37.8-114	16	20	
Pyrene	44.8	10.0	ug/L	50.00		90	48.2-152	11	20	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

James Vandersee For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EJ10049 - EPA 3520										
LCS Dup (EJ10049-BSD1)				Prepared: 08/31/21 Analyzed: 09/02/21						
Benzo(a)anthracene	44.2	10.0	ug/L	50.00		88	50.3-131	10	20	
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*19.3*		ug/L	*100.0*		*19*	*0-96.2*			
Surrogate: Phenol-d5	*39.9*		ug/L	*100.0*		*40*	*0-121*			
Surrogate: Nitrobenzene-d5	*39.0*		ug/L	*50.00*		*78*	*13.8-111*			
Surrogate: 2-Fluorobiphenyl	*38.1*		ug/L	*50.00*		*76*	*20.6-102*			
Surrogate: 2,4,6-Tribromophenol	*73.3*		ug/L	*100.0*		*73*	*15.6-121*			
Surrogate: Terphenyl-d14	*43.7*		ug/L	*50.00*		*87*	*0-137*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	09/22/21 09:00

Certifications

Code	Description	Number	Expires
NELAP/OK	NELAP Accredited (ODEQ)	2021-151	08/31/2022
TCEQ	Texas Accedited (TCEQ)	T104704498-21-11	03/31/2022

Environmental Testing, Inc.

James Vandersee For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project:	Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number:	RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager:	Mr. Bob Mixon	09/22/21 09:00

Qualifiers and Definitions

COM	Completed
H-04	Sample extraction was performed past the method holding time.
L-03	The laboratory control spike RPD was higher than expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

ENVIRONMENTAL TESTING, INC.

Sample Receipt Form: E1H0367

Environmental Testing, Inc.

E1H0367

Printed: 8/19/2021 12:21:07PM

E-1-H-0367

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**Mixon Brothers Ground Water Monitoring**	**Project Number:**	**RCRA Annual Sampling**

Report To:	Invoice To:
Mixon Brothers Wood Preserving Inc.	Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon	Mr. Bob Mixon
P.O. Box 327	P.O. Box 327
Idabel, OK 74745	Idabel, OK 74745
Phone: (580) 286-9494	Phone: (580) 286-9494
Fax: n/a	Fax: n/a

Date Due:	08/26/21 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	08/19/21 11:06
Logged In By:	Andra Hoot	Date Logged In:	08/19/21 12:18

Samples Received at:		1°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_EOC_wpres_rev9.0.rpt

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

21H0367

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 19, 2021

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 08182021 A-D for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270 SIM, 2 µg/L).

08182021 A-D are liquid samples.

21H0867

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
08182021 A-D	August 18, 2021	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	Witness(es)
J. J. Black	

Remarks:

Received on Ice (4° C) -0.3 +1.3 = 1.0 T1000043 on ice

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	Jerry J. Black	August 19, 2021	11:06 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	Steph Saul	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

24 August 2022

Mr. Bob Mixon
Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E2H0320
RE: Mixon Brothers Ground Water Monitoring

Enclosed are the results of analyses for samples received by the laboratory on 08/16/22 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

Original (P)

E2H0320

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

08152022 A

E2H0320-01 (Aqueous) - Sampled: 08/15/22 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 16:33	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 16:33	EPA 8270D 2007	
Surrogate: 2-Fluorophenol			*14 %*		*-50.5-108*	*EKH0483*	BLS	*08/23/22 16:33*	*EPA 8270D 2007*	
Surrogate: Phenol-d5			*38 %*		*-61.2-146*	*EKH0483*	BLS	*08/23/22 16:33*	*EPA 8270D 2007*	
Surrogate: Nitrobenzene-d5			*59 %*		*-2.97-140*	*EKH0483*	BLS	*08/23/22 16:33*	*EPA 8270D 2007*	
Surrogate: 2-Fluorobiphenyl			*58 %*		*1.33-140*	*EKH0483*	BLS	*08/23/22 16:33*	*EPA 8270D 2007*	
Surrogate: 2,4,6-Tribromophenol			*86 %*		*-37.7-190*	*EKH0483*	BLS	*08/23/22 16:33*	*EPA 8270D 2007*	
Surrogate: Terphenyl-d14			*73 %*		*-36.5-163*	*EKH0483*	BLS	*08/23/22 16:33*	*EPA 8270D 2007*	
Liquid-Liquid Extraction	Completed			N/A		EKH0483	FJM	08/17/22 16:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

08152022 B

E2H0320-02 (Aqueous) - Sampled: 08/15/22 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 17:04	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 17:04	EPA 8270D 2007	
Surrogate: 2-Fluorophenol			*21 %*	*-50.5-108*		*EKH0483*	BLS	*08/23/22 17:04*	*EPA 8270D 2007*	
Surrogate: Phenol-d5			*51 %*	*-61.2-146*		*EKH0483*	BLS	*08/23/22 17:04*	*EPA 8270D 2007*	
Surrogate: Nitrobenzene-d5			*73 %*	*-2.97-140*		*EKH0483*	BLS	*08/23/22 17:04*	*EPA 8270D 2007*	
Surrogate: 2-Fluorobiphenyl			*74 %*	*1.33-140*		*EKH0483*	BLS	*08/23/22 17:04*	*EPA 8270D 2007*	
Surrogate: 2,4,6-Tribromophenol			*97 %*	*-37.7-190*		*EKH0483*	BLS	*08/23/22 17:04*	*EPA 8270D 2007*	
Surrogate: Terphenyl-d14			*91 %*	*-36.5-163*		*EKH0483*	BLS	*08/23/22 17:04*	*EPA 8270D 2007*	
Liquid-Liquid Extraction	Completed			N/A		EKH0483	FJM	08/17/22 16:00	EPA 3520C 1996	

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

08152022 C

E2H0320-03 (Aqueous) - Sampled: 08/15/22 00:00

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 17:34	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 17:34	EPA 8270D 2007	
Surrogate: 2-Fluorophenol			*23 %*		*-50.5-108*	*EKH0483*	BLS	*08/23/22 17:34*	*EPA 8270D 2007*	
Surrogate: Phenol-d5			*51 %*		*-61.2-146*	*EKH0483*	BLS	*08/23/22 17:34*	*EPA 8270D 2007*	
Surrogate: Nitrobenzene-d5			*66 %*		*-2.97-140*	*EKH0483*	BLS	*08/23/22 17:34*	*EPA 8270D 2007*	
Surrogate: 2-Fluorobiphenyl			*68 %*		*1.33-140*	*EKH0483*	BLS	*08/23/22 17:34*	*EPA 8270D 2007*	
Surrogate: 2,4,6-Tribromophenol			*103 %*		*-37.7-190*	*EKH0483*	BLS	*08/23/22 17:34*	*EPA 8270D 2007*	
Surrogate: Terphenyl-d14			*85 %*		*-36.5-163*	*EKH0483*	BLS	*08/23/22 17:34*	*EPA 8270D 2007*	
Liquid-Liquid Extraction	Completed			N/A		EKH0483	FJM	08/17/22 16:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

08152022 D

E2H0320-04 (Aqueous) - Sampled: 08/15/22 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 18:05	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 18:05	EPA 8270D 2007	
Surrogate: 2-Fluorophenol	*23 %*			*-50.5-108*		*EKH0483*	BLS	*08/23/22 18:05*	*EPA 8270D 2007*	
Surrogate: Phenol-d5	*47 %*			*-61.2-146*		*EKH0483*	BLS	*08/23/22 18:05*	*EPA 8270D 2007*	
Surrogate: Nitrobenzene-d5	*58 %*			*-2.97-140*		*EKH0483*	BLS	*08/23/22 18:05*	*EPA 8270D 2007*	
Surrogate: 2-Fluorobiphenyl	*59 %*			*1.33-140*		*EKH0483*	BLS	*08/23/22 18:05*	*EPA 8270D 2007*	
Surrogate: 2,4,6-Tribromophenol	*86 %*			*-37.7-190*		*EKH0483*	BLS	*08/23/22 18:05*	*EPA 8270D 2007*	
Surrogate: Terphenyl-d14	*80 %*			*-36.5-163*		*EKH0483*	BLS	*08/23/22 18:05*	*EPA 8270D 2007*	
Liquid-Liquid Extraction	Completed			N/A		EKH0483	FJM	08/17/22 16:00	EPA 3520C 1996	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

08152022 E

E2H0320-05 (Aqueous) - Sampled: 08/15/22 00:00

Environmental Testing, Inc.

Semivolatile Organic Compounds by EPA Method 8270

Analyte	Result	SDL	SRL	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Naphthalene	<2.00	2.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 18:36	EPA 8270D 2007	
Pentachlorophenol	<1.00	1.00	10.0	ug/L	1	EKH0483	BLS	08/23/22 18:36	EPA 8270D 2007	
Surrogate: 2-Fluorophenol			*20 %*		*-50.5-108*	*EKH0483*	BLS	*08/23/22 18:36*	*EPA 8270D 2007*	
Surrogate: Phenol-d5			*48 %*		*-61.2-146*	*EKH0483*	BLS	*08/23/22 18:36*	*EPA 8270D 2007*	
Surrogate: Nitrobenzene-d5			*71 %*		*-2.97-140*	*EKH0483*	BLS	*08/23/22 18:36*	*EPA 8270D 2007*	
Surrogate: 2-Fluorobiphenyl			*75 %*		*1.33-140*	*EKH0483*	BLS	*08/23/22 18:36*	*EPA 8270D 2007*	
Surrogate: 2,4,6-Tribromophenol			*99 %*		*-37.7-190*	*EKH0483*	BLS	*08/23/22 18:36*	*EPA 8270D 2007*	
Surrogate: Terphenyl-d14			*86 %*		*-36.5-163*	*EKH0483*	BLS	*08/23/22 18:36*	*EPA 8270D 2007*	
Liquid-Liquid Extraction	Completed			N/A		EKH0483	FJM	08/17/22 16:00	EPA 3520C 1996	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

E2H0320

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

QUALITY CONTROL

Semivolatile Organic Compounds by EPA Method 8270
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EKH0483 - EPA 3520										
Blank (EKH0483-BLK1)				Prepared: 08/17/22 Analyzed: 08/23/22						
Naphthalene	<10.0	10.0	ug/L							
Pentachlorophenol	<10.0	10.0	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*26.5*		ug/L	*100.0*		*27*	*-50.5-108*			
Surrogate: Phenol-d5	*52.3*		ug/L	*100.0*		*52*	*-61.2-146*			
Surrogate: Nitrobenzene-d5	*38.6*		ug/L	*50.00*		*77*	*-2.97-140*			
Surrogate: 2-Fluorobiphenyl	*39.7*		ug/L	*50.00*		*79*	*1.33-140*			
Surrogate: 2,4,6-Tribromophenol	*108*		ug/L	*100.0*		*108*	*-37.7-190*			
Surrogate: Terphenyl-d14	*45.4*		ug/L	*50.00*		*91*	*-36.5-163*			
LCS (EKH0483-BS1)				Prepared: 08/17/22 Analyzed: 08/23/22						
Naphthalene	24.3	10.0	ug/L	50.00		49	53.1-86.5			L-01
Pentachlorophenol	70.9	10.0	ug/L	100.0		71	19-141			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*8.43*		ug/L	*100.0*		*8*	*-50.5-108*			
Surrogate: Phenol-d5	*32.6*		ug/L	*100.0*		*33*	*-61.2-146*			
Surrogate: Nitrobenzene-d5	*37.3*		ug/L	*50.00*		*75*	*-2.97-140*			
Surrogate: 2-Fluorobiphenyl	*38.7*		ug/L	*50.00*		*77*	*1.33-140*			
Surrogate: 2,4,6-Tribromophenol	*92.7*		ug/L	*100.0*		*93*	*-37.7-190*			
Surrogate: Terphenyl-d14	*39.8*		ug/L	*50.00*		*80*	*-36.5-163*			
LCS Dup (EKH0483-BSD1)				Prepared: 08/17/22 Analyzed: 08/23/22						
Naphthalene	32.4	10.0	ug/L	50.00		65	53.1-86.5	28	20	L-03
Pentachlorophenol	104	10.0	ug/L	100.0		104	19-141	38	20	L-03
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*32.2*		ug/L	*100.0*		*32*	*-50.5-108*			
Surrogate: Phenol-d5	*63.1*		ug/L	*100.0*		*63*	*-61.2-146*			
Surrogate: Nitrobenzene-d5	*37.9*		ug/L	*50.00*		*76*	*-2.97-140*			
Surrogate: 2-Fluorobiphenyl	*45.2*		ug/L	*50.00*		*90*	*1.33-140*			
Surrogate: 2,4,6-Tribromophenol	*124*		ug/L	*100.0*		*124*	*-37.7-190*			
Surrogate: Terphenyl-d14	*48.4*		ug/L	*50.00*		*97*	*-36.5-163*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

Certifications

Code	Description	Number	Expires
NELAP/OK	NELAP Accredited (ODEQ)	2021-166	08/31/2022
TCEQ	Texas Accedited (TCEQ)	T104704498-22-12	03/31/2023

Mixon Brothers Wood Preserving Inc.	Project: Mixon Brothers Ground Water Monitoring	
P.O. Box 327	Project Number: RCRA Annual Sampling	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	08/24/22 16:47

Qualifiers and Definitions

COM	Completed
L-01	The laboratory control spike recovery was lower than expected. This may cause a low bias to the reported result.
L-03	The laboratory control spike RPD was higher than expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
SDL	The MDL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
SRL	The MRL adjusted to reflect sample-specific actions, such as dilution or use of smaller aliquot sizes than prescribed in the analytical method.
NA	Not Applicable

ENVIRONMENTAL
TESTING, INC.

Sample Receipt Form: E2H0320

Environmental Testing, Inc.

E2H0320
Printed: 8/16/2022 2:32:58PM
E-2-H-0320

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**Mixon Brothers Ground Water Monitoring**	**Project Number:**	**RCRA Annual Sampling**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745

Phone: (580) 286-9494

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745

Phone: (580) 286-9494

Date Due:	08/23/22 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	08/16/22 14:20
Logged In By:	Andra Hoot	Date Logged In:	08/16/22 14:28

Samples Received at:		1.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

wko_EOC_wpres_rev10.0.rpt

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

42H0320

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

August 16, 2022

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: Mixon Brothers Ground Water Monitoring (RCRA Annual Sampling)

Please send analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel, Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 08152022 A-E for pentachlorophenol (Phenols by EPA Method 8041, 1 µg/L) and naphthalene (Semivolatile Organic Compounds by EPA Method 8270 SIM, 2 µg/L).

08152022 A-E are liquid samples.

42H0320

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
08152022 A-E	August 15, 2022	

Site I.D. (station)

Mixon Brothers Wood Preserving Inc. RCRA Site

Sample Collector	Witness(es)
J. J. Black	

Remarks:

Received on Ice (4° C) 0.8 +0.4 = 1.2 ET000112

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	Jerry J. Black	August 16, 2022	14:20 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	Stephanie Saul	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

Appendix F

Project Logs
Annual Water Levels
(2013-2022)

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels   Date: 12/31/2013
Time started: 12:40   Wind speed: 4   direction: 100°
Temperature: 10°C   Cloud cover: Clear
Time ended: 14:40   Wind speed: 7   direction: 170°
Temperature: 12°C   Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	3.1		16.17				
3	3.6		16.35				
4	26.2		30.07				
5	13.6		30.14				
6	28.4		32.90				
7	12.5		15.33				
8	4.8		17.19				
9	3.4		17.29				
10	2.9		14.43				
CW-1	17.1		33.10				
CW-2	16.3		32.98				
CW-3	14.2		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels Date: 12/31/2014
Time started: 1330 Wind speed: 2 direction: 040°
Temperature: 4°C Cloud cover: Clear
Time ended: 1430 Wind speed: 3 direction: 360°
Temperature: 4°C Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	11.4		16.17				
3	4.2		16.35				
4	25.8		30.07				
5	14.0		30.14				
6	28.0		32.90				
7	13.0		15.33				
8	5.2		17.19				
9	2.9		17.29				
10	3.0		14.43				
CW-1	18.0		33.10				
CW-2	17.0		32.98				
CW-3	15.0		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels Date: 12/30/2015
Time started: 1430 Wind speed: 3 direction: 300°
Temperature: 11°C Cloud cover: Clear
Time ended: 1530 Wind speed: 3 direction: 080°
Temperature: 11°C Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	6.9		16.17				
3	3.0		16.35				
4	26.2		30.07				
5	13.4		30.14				
6	28.4		32.90				
7	13.5		15.33				
8	10.2		17.19				
9	3.3		17.29				
10	3.1		14.43				
CW-1	17.0		33.10				
CW-2	16.0		32.98				
CW-3	13.4		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels Date: 12/30/2016
Time started: 1345 Wind speed: 9 direction: 210°
Temperature: 14°C Cloud cover: Clear
Time ended: 1500 Wind speed: 8 direction: 200°
Temperature: 13°C Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	10		16.17				
3	13		16.35				
4	27.1		30.07				
5	24		30.14				
6	29.2		32.90				
7	13.2		15.33				
8	5		17.19				
9	5		17.29				
10	6		14.43				
CW-1	14.5		33.10				
CW-2	17.4		32.98				
CW-3	15		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels   Date: 12/29/2017
Time started: 1230   Wind speed: 7   direction: 180°
Temperature: 4°C   Cloud cover: Overcast
Time ended: 1430   Wind speed: 6   direction: 190°
Temperature: 6°C   Cloud cover: Overcast
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	7.5		16.17				
3	10.6		16.35				
4	26.8		30.07				
5	25.1		30.14				
6	28.8		32.90				
7	13.7		15.33				
8	9		17.19				
9	5.2		17.29				
10	4.1		14.43				
CW-1	16.3		33.10				
CW-2	17.2		32.98				
CW-3	15.1		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels Date: 12/31/2018
Time started: 1500 Wind speed: 0 direction: Calm
Temperature: 12°C Cloud cover: Clear
Time ended: 1430 Wind speed: 0 direction: Calm
Temperature: 11°C Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	7.8		16.17				
3	11.4		16.35				
4	27.1		30.07				
5	26.3		30.14				
6	27.0		32.90				
7	13.9		15.33				
8	13.5		17.19				
9	14.3		17.29				
10	5.8		14.43				
CW-1	17.4		33.10				
CW-2	16.5		32.98				
CW-3	15.0		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels Date: 12/30/2019
Time started: 1330 Wind speed: 12 direction: 290
Temperature: 9°C Cloud cover: Clear
Time ended: 1430 Wind speed: 12 direction: 270
Temperature: 10°C Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	6.4		16.17				
3	10.1		16.35				
4	26.6		30.07				
5	25.4		30.14				
6	28.2		32.90				
7	14.1		15.33				
8	13.7		17.19				
9	15.1		17.29				
10	5.2		14.43				
CW-1	17.9		33.10				
CW-2	16.8		32.98				
CW-3	15.5		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels Date: 12/31/2020
Time started: 0930 Wind speed: 12 direction: 050
Temperature: 3°C Cloud cover: Overcast
Time ended: 1030 Wind speed: 12 direction: 040
Temperature: 4°C Cloud cover: Overcast
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	6.1		16.17				
3	9.5		16.35				
4	26.0		30.07				
5	25.1		30.14				
6	29.2		32.90				
7	13.8		15.33				
8	12.2		17.19				
9	14.6		17.29				
10	6.3		14.43				
CW-1	18.2		33.10				
CW-2	16.7		32.98				
CW-3	15.2		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

Project: Mixon RCRA GW Levels   Date: 12/30/2021
Time started: 1300   Wind speed: 6   direction: S
Temperature: 70°F   Cloud cover: Clear
Time ended: 1400   Wind speed: 7   direction: S
Temperature: 72°F   Cloud cover: Clear
Personnel: Bob Mixon

PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	11.1		16.17				
3	14.4		16.35				
4	27.0		30.07				
5	26.2		30.14				
6	29.1		32.90				
7	14.2		15.33				
8	12.1		17.19				
9	15.3		17.29				
10	12.4		14.43				
CW-1	13.2		33.10				
CW-2	14.6		32.98				
CW-3	15.1		33.20				

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Daily Log

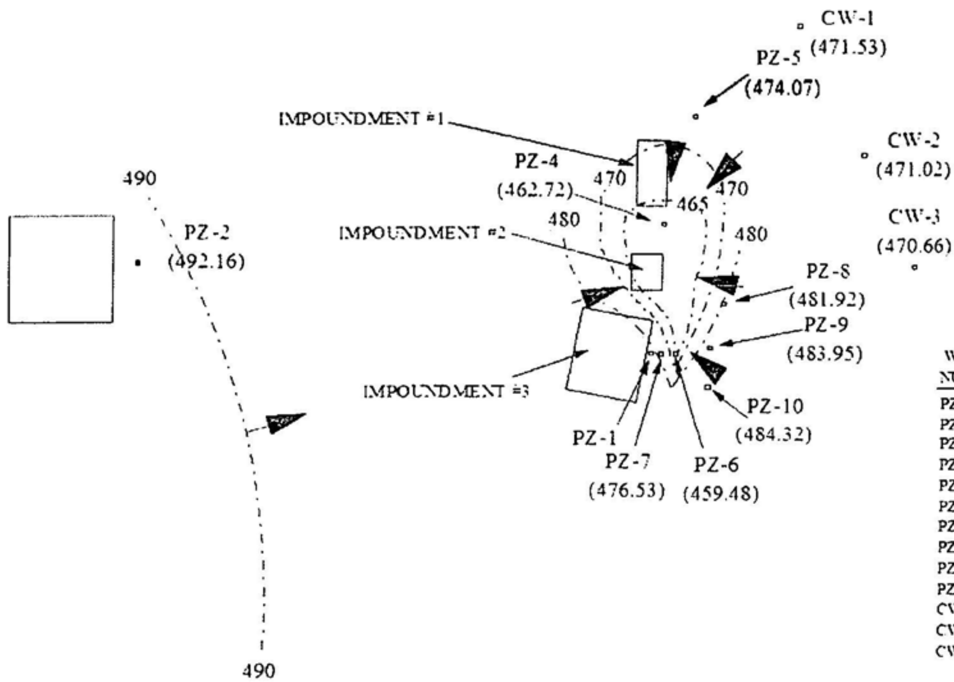
Project: Mixon RCRA GW Levels Date: 12/29/2022
Time started: 1025 Wind speed: Calm direction: Calm
Temperature: 13°C Cloud cover: Overcast
Time ended: 1130 Wind speed: Calm direction: Calm
Temperature: 14°C Cloud cover: Overcast
Personnel: Bob Mixon

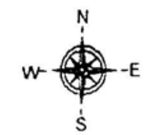
PZ - Well #	Level to Water (feet)	Volume (gallons)	Total Depth (feet)	PH (SU)	Temp. (°F)	Specific Conductance	Sample Number and Time
2	11.3		16.17				
3	13.2		16.35				
4	27.3		30.07				
5	26.0		30.14				
6	29.5		32.90				
7	14.0		15.33				
8	12.4		17.19				
9	14.9		17.29				
10	12.1		14.43				
CW-1	14.1		33.10				
CW-2	14.7		32.98				
CW-3	15.0		33.20				

Appendix G

Maps of Groundwater Potentiometric Surface and Flow Direction (2013-2022)

Black and Associates Environmental Consultants, Inc.





SCALE

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

• PZ-3
(493.93)

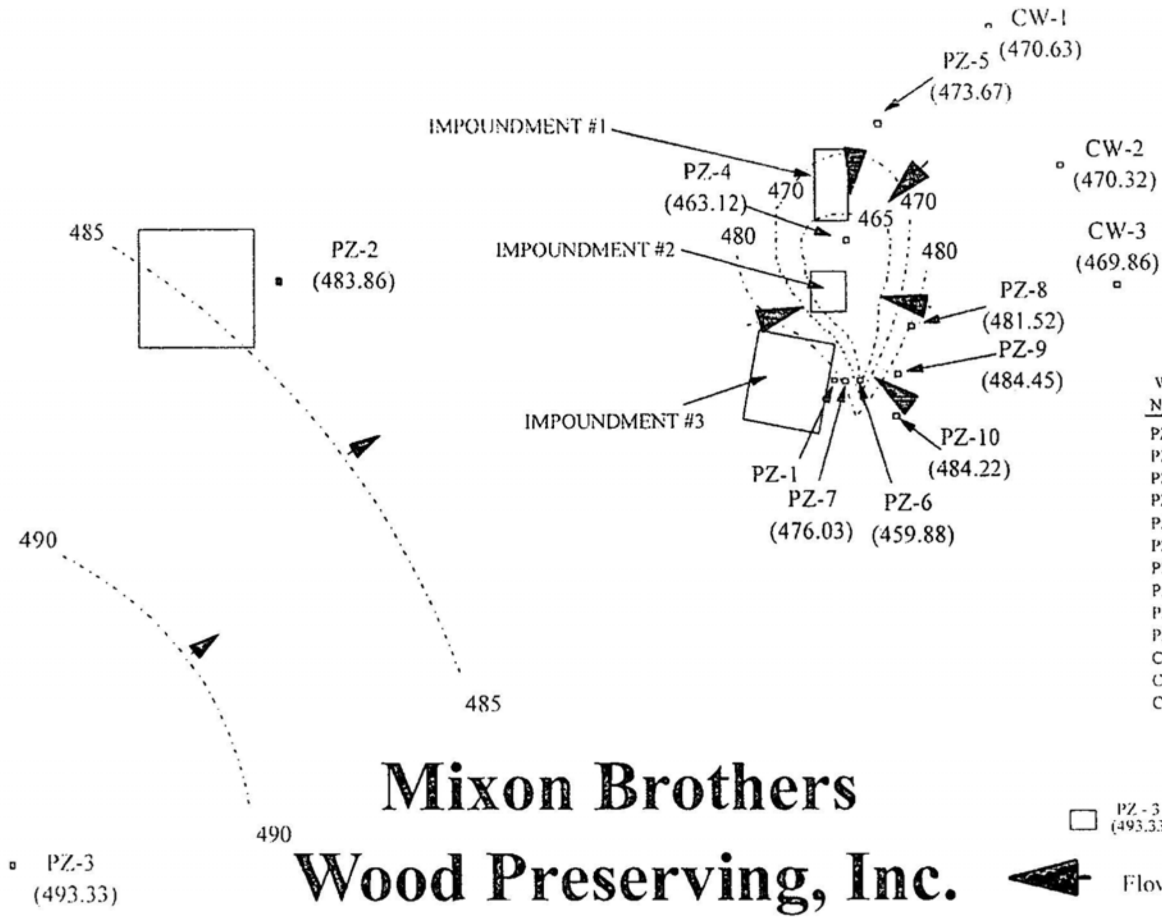
Mixon Brothers Wood Preserving, Inc.

LEGEND

PZ-3 MONITOR WELL LOCATION AND
(493.93) GROUNDWATER ELEVATION, FEET AMSL, 12/31/2013

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/31/2013



N
W
E
S

SCALE

0' 25' 50' 100' 150'

MONITOR WELL DATA

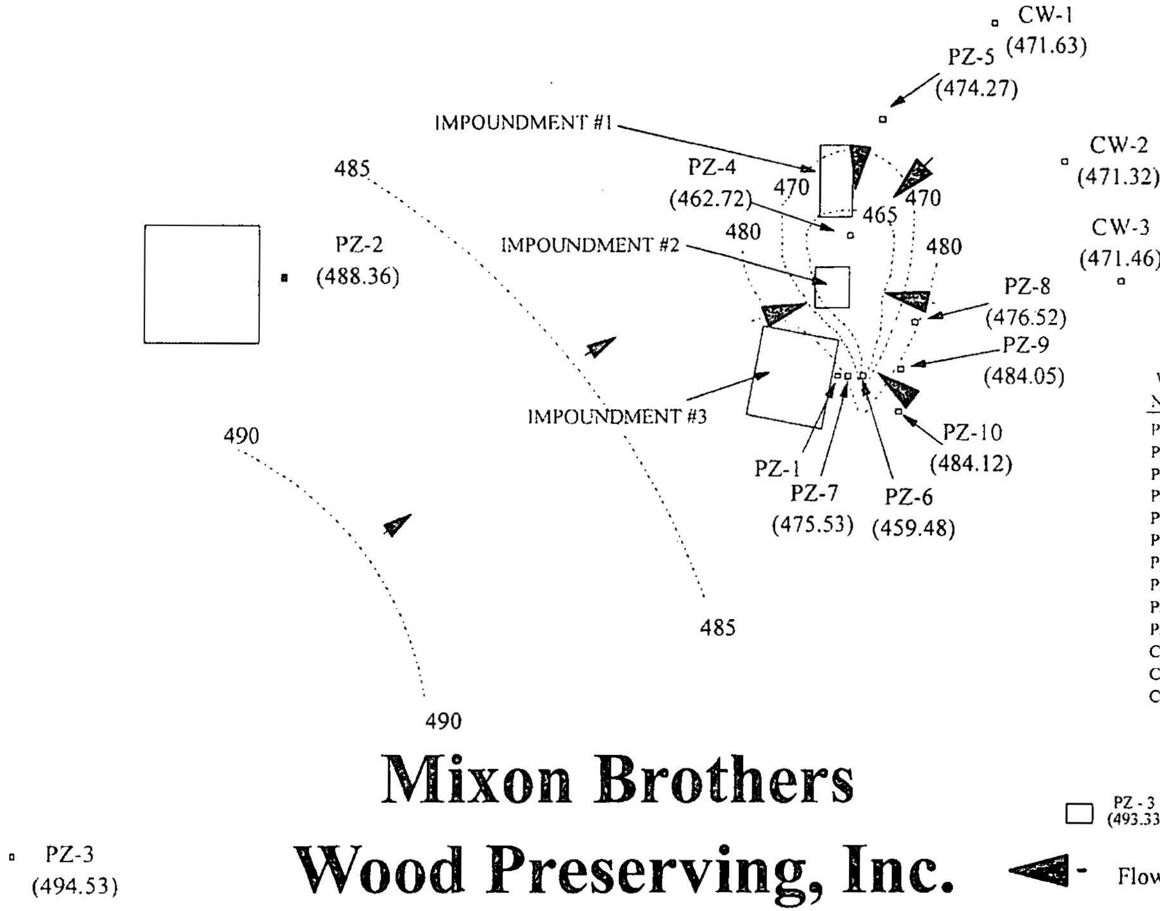
WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

LEGEND

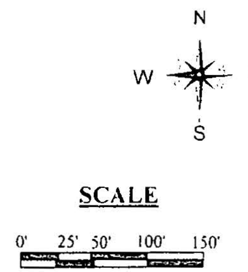
PZ - 3 :MONITOR WELL LOCATION AND
(493.33) :GROUNDWATER ELEVATION, FEET AMSL, 12/31/2014

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/31/2014



Mixon Brothers Wood Preserving, Inc.



MONITOR WELL DATA

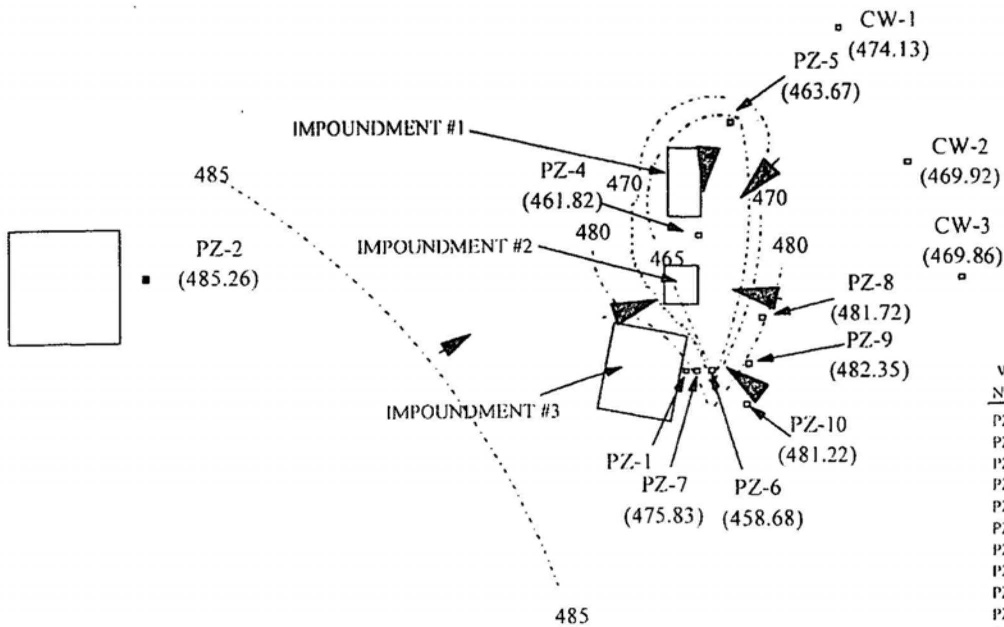
WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

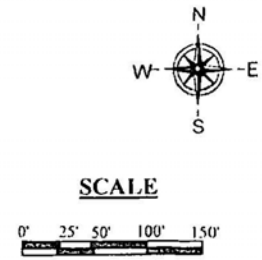
LEGEND

PZ - 3 (493.33) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/30/2015

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/30/2015





MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

PZ-3
(484.53)

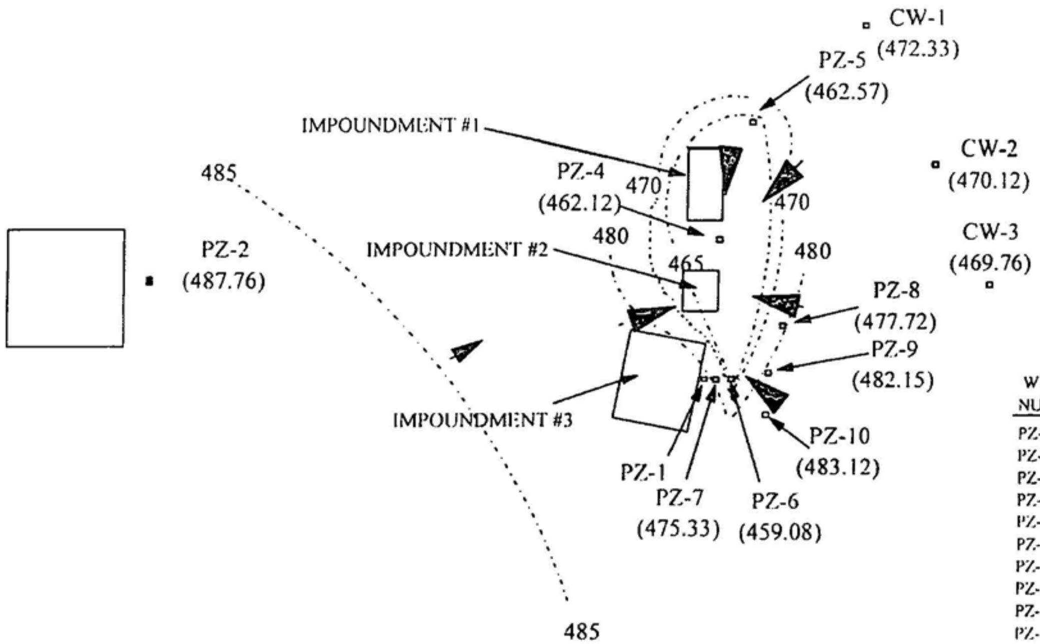
Mixon Brothers Wood Preserving, Inc.

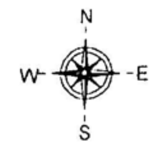
LEGEND

PZ-3 (484.53) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/30/2016

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/30/2016





SCALE

0' 25' 50' 100' 150'

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

Mixon Brothers
Wood Preserving, Inc.

PZ-3
(486.93)

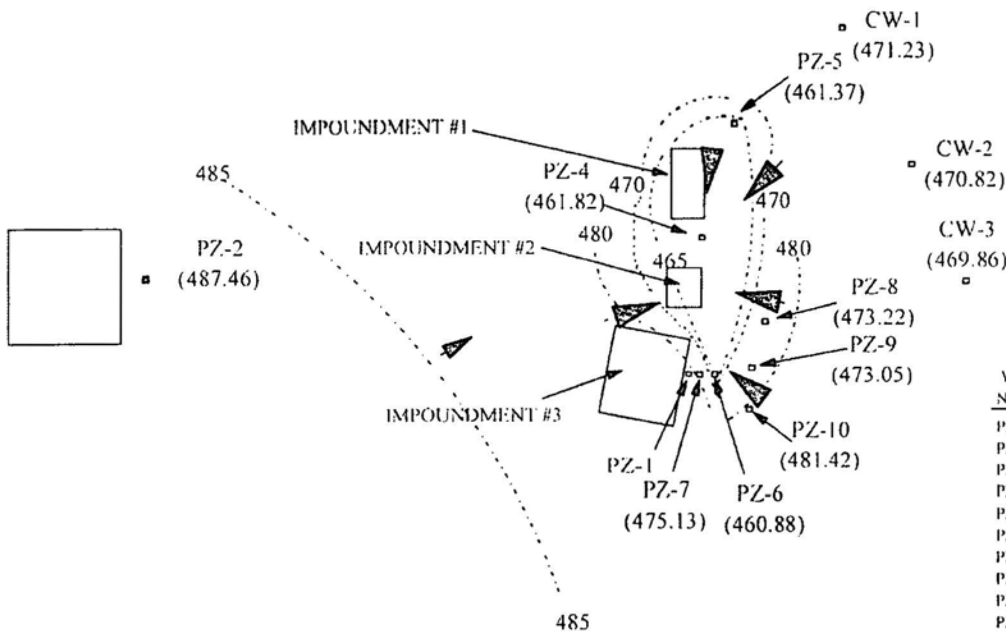
Post-Closure Operations Permit
Number 007336258PC

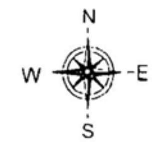
LEGEND

PZ-3 (486.93) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/29/2017

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/29/2017





SCALE

0' 25' 50' 100' 150'

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

Mixon Brothers Wood Preserving, Inc.

PZ-3
(486.13)

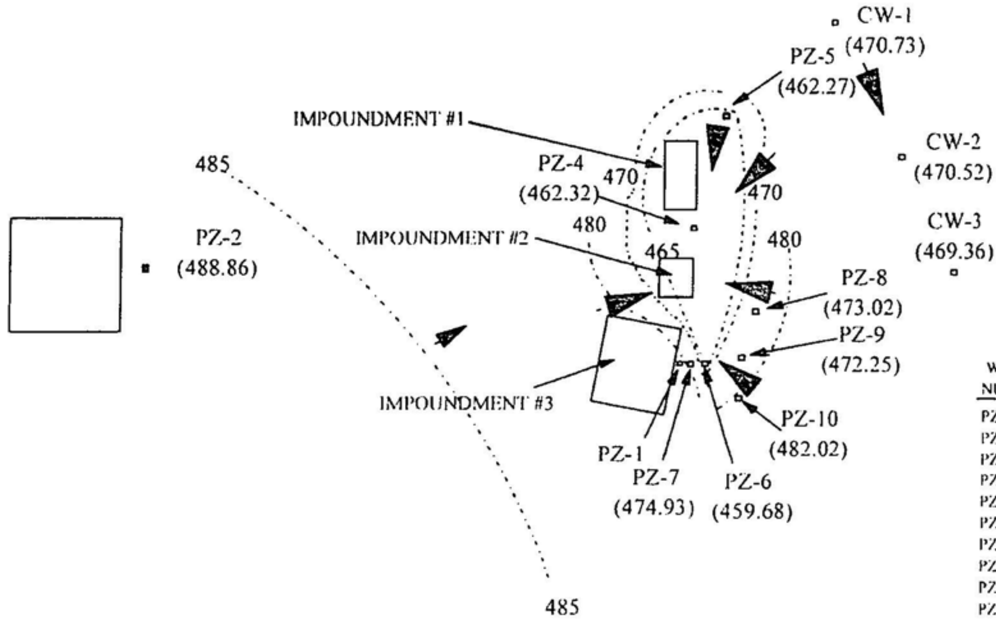
Post-Closure Operations Permit
Number 007336258PC

LEGEND

PZ-3 (486.13) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/31/2018

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/31/2018



PZ-3
(487.43)

SCALE

0' 25' 50' 100' 150'

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

Mixon Brothers Wood Preserving, Inc.

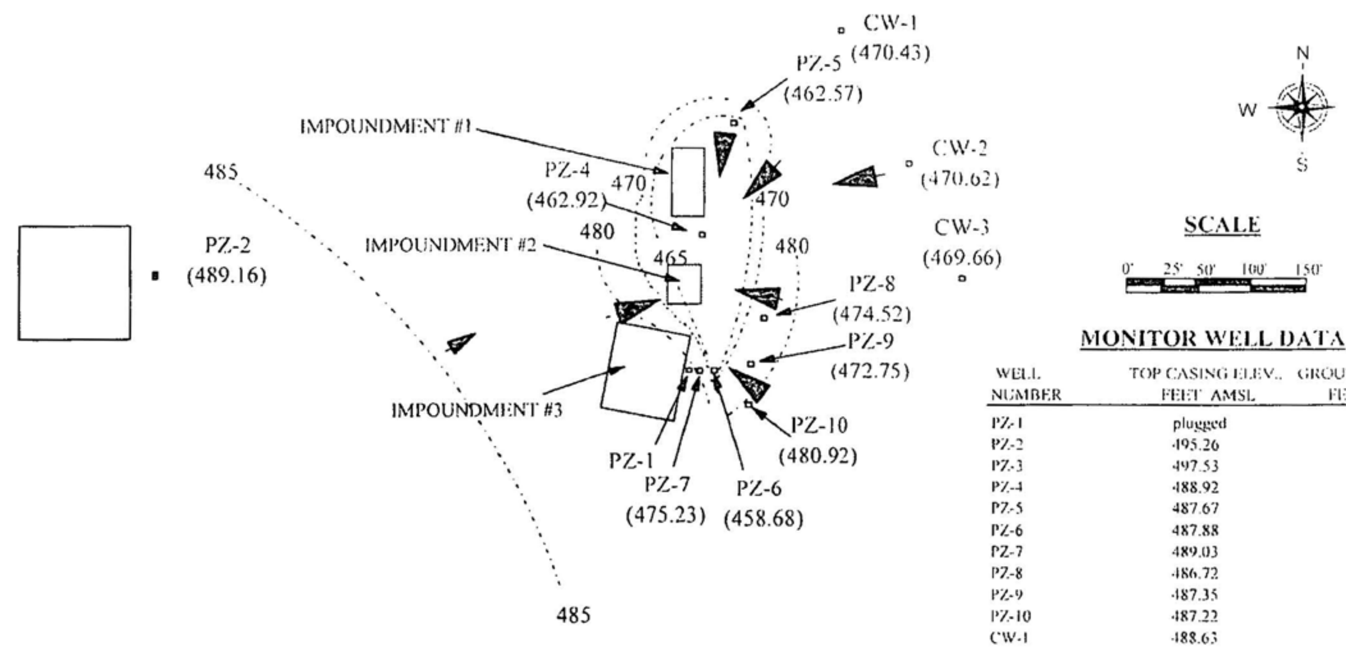
Post-Closure Operations Permit
Number 007336258PC

LEGEND

PZ-3 (490.43) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/30/2019

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/30/2019



SCALE

0' 25' 50' 100' 150'

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

Mixon Brothers Wood Preserving, Inc.

PZ-3
(488.03)

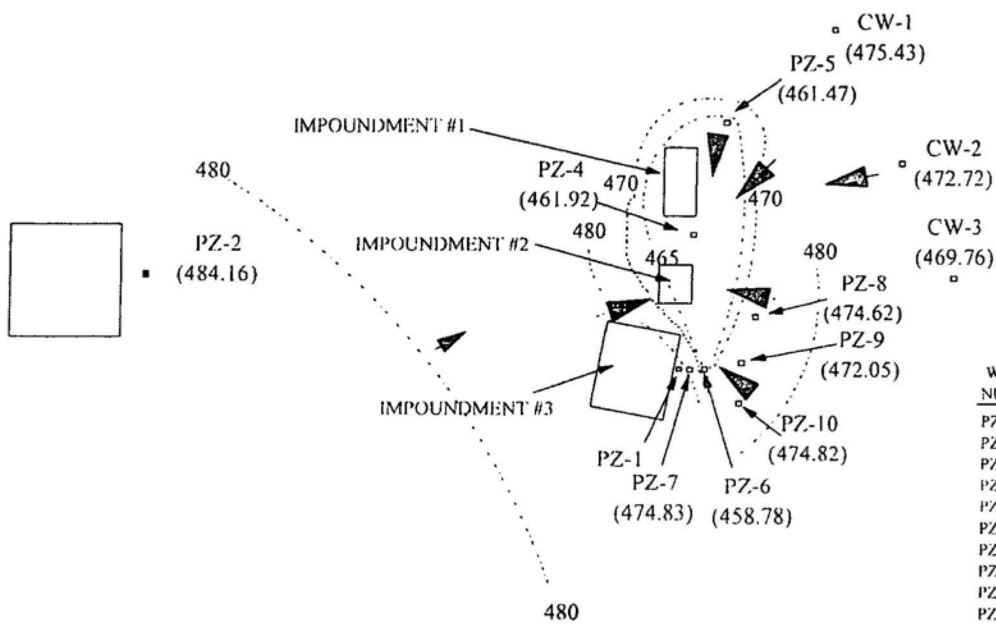
Post-Closure Operations Permit
Number 007336258PC

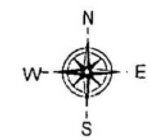
LEGEND

PZ-3 (488.03) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/31/2020

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/31/2020





SCALE

0' 25' 50' 100' 150'

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

Mixon Brothers
Wood Preserving, Inc.

PZ-3
(483.13)

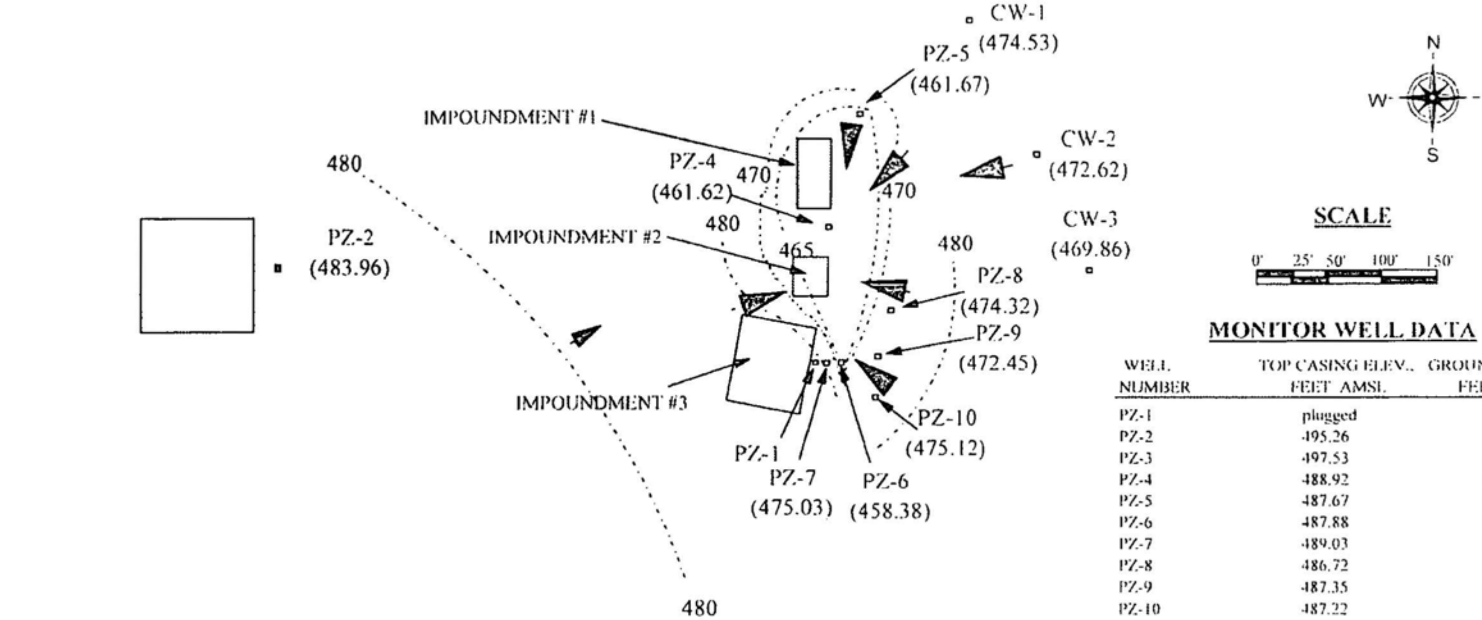
Post-Closure Operations Permit
Number 007336258PC

LEGEND

PZ - 3 (483.13) :MONITOR WELL LOCATION AND :GROUNDWATER ELEVATION, FEET AMSL, 12/30/2021

- Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/30/2021



Mixon Brothers

Wood Preserving, Inc.

Post-Closure Operations Permit
Number 007336258PC

MONITOR WELL DATA

WELL NUMBER	TOP CASING ELEV., FEET AMSL	GROUND ELEV., FEET AMSL
PZ-1	plugged	488.80
PZ-2	495.26	493.13
PZ-3	497.53	496.22
PZ-4	488.92	487.26
PZ-5	487.67	486.12
PZ-6	487.88	485.18
PZ-7	489.03	487.49
PZ-8	486.72	483.85
PZ-9	487.35	484.39
PZ-10	487.22	484.30
CW-1	488.63	486.04
CW-2	487.32	484.52
CW-3	484.86	482.22

LEGEND

PZ - 3 :MONITOR WELL LOCATION AND
(484.33) :GROUNDWATER ELEVATION, FEET AMSL, 12 29 2022

Flow Direction

470 Contour of groundwater potentiometric surface, feet AMSL, 12/29/2022

Appendix H

Project Logs
Outfall 001 Sampling
(2013-2022)

Black and Associates Environmental Consultants, Inc.

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 06/07/2013
Time started: 0915 Wind speed: 7 direction: ______
Temperature: 21 C Cloud cover: Clear
Time ended: 1015 Wind speed: 7 direction: ______
Temperature: 71 F Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.67	21.1	06072013 B 1013	OK

Trip Blank - 06072013 A

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 11/08/2013
Time started: 0915 Wind speed: 7 direction: ____
Temperature: 41 F Cloud cover: Clear
Time ended: 1015 Wind speed: 7 direction: ____
Temperature: 49 F Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
8.15		11082013 BM 1013	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring   Date: 03/10/2015
Time started: 0915   Wind speed: 5   direction: 0310
Temperature: 9 C   Cloud cover: Cloudy
Time ended: 0930   Wind speed: 7   direction: 0310
Temperature: 9 C   Cloud cover: Cloudy
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.27	16.3	03102015 BM 0920	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 05/21/2015
Time started: 1025 Wind speed: 6 direction: 350
Temperature: 14 C Cloud cover: Cloudy
Time ended: 1045 Wind speed: 6 direction: 010
Temperature: 14 C Cloud cover: Cloudy
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.33	19.6	05212015 BM 1030	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring   Date: 12/15/2015
Time started: 1000   Wind speed: 0   direction: Calm
Temperature: 58 F   Cloud cover: Clear
Time ended: 1030   Wind speed: 0   direction: Calm
Temperature: 60 F   Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.88	14.1	12152015 BM 1010	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 04/22/2016
Time started: 1330 Wind speed: 4 direction: 320
Temperature: 25 C Cloud cover: Clear
Time ended: 1400 Wind speed: 4 direction: 330
Temperature: 26 C Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
8.06	24.1	04222016 BM 1340	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 11/29/2016
Time started: 1245 Wind speed: Calm direction:
Temperature: 68 F Cloud cover: Clear
Time ended: 1400 Wind speed: Calm direction:
Temperature: 68 F Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.83	17.2	11292016 BM 1300	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring		Date: 07/06/2017	
Time started: 1330	Wind speed: 6	direction: 250	
Temperature: 31 C	Cloud cover: Overcast 2000'		
Time ended: 1411	Wind speed: 5	direction: 210	
Temperature: 32 C	Cloud cover: Overcast 2000'		
Personnel: Bob Mixon			

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
8.07	26.1	07062017 BM 1340	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 02/28/2018
Time started: 0925 Wind speed: 8 direction: 200°
Temperature: 19 °C Cloud cover: Overcast
Time ended: 1002 Wind speed: 6 direction: 220°
Temperature: 19 °C Cloud cover: Overcast
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.84	17.7	02282018 BM 0930	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 05/03/2019
Time started: 1245 Wind speed: 7 direction: 210°
Temperature: 20°C Cloud cover: Scattered Clear
Time ended: 1345 Wind speed: 5 direction: 180°
Temperature: 20°C Cloud cover: Scattered Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.24	22.4	05032019 BM 1330	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring   Date: 05/20/2019
Time started: 1300   Wind speed: 8   direction: 130°
Temperature: 22°C   Cloud cover: Overcast
Time ended: 1345   Wind speed: 10   direction: 130°
Temperature: 23°C   Cloud cover: Overcast
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.82	21.8	05202019 BM 1330	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 03/31/2020
Time started: 1330 Wind speed: 7 direction: 030°
Temperature: 17°C Cloud cover: Clear
Time ended: 1400 Wind speed: 8 direction: 350°
Temperature: 17°C Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
8.13	22.8	03312020 BM 1345	OK

Black and Associates
Environmental Consultants, Inc.
Mixon Brothers Wood Preserving, Inc.
Project Log

Project: Storm Water Monitoring Date: 05/27/2021
Time started: 1030 Wind speed: 12 direction: 180
Temperature: 27 °C Cloud cover: Clear
Time ended: 1100 Wind speed: 13 direction: 170
Temperature: 27 °C Cloud cover: Clear
Personnel: Bob Mixon

PH (SU)	Temperature (°C)	Sample Number/Time	PH Meter Check 4-7-10
7.7	21.8	05032019 BM	OK

Appendix I

Laboratory Analytical Results
from
Outfall 001 (2013 to 2022)

Black and Associates Environmental Consultants, Inc.

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

14 June 2013

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E3F0095
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 06/10/13 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/14/13 13:09

06072013 A

E3F0095-01 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Environmental Testing Inc.

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	EBF0251	PJM	06/13/13 09:00	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EBF0215	DMB	06/12/13 13:50	EPA 420.1	

Conventional Chemistry Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Total Suspended Solids	<5.00	5.00	mg/L	2	EBF0183	DMB	06/11/13 11:40	SM 2540D	

Environmental Testing Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/14/13 13:09

06072013 B

E3F0095-02 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Environmental Testing Inc.

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	EBF0251	PJM	06/13/13 09:00	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EBF0215	DMB	06/12/13 13:50	EPA 420.1	

Conventional Chemistry Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Total Suspended Solids	<5.00	5.00	mg/L	2	EBF0183	DMB	06/11/13 11:40	SM 2540D	

Environmental Testing Inc.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/14/13 13:09

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EBF0215 - General Prep - Wet Chem (Aq)										
Blank (EBF0215-BLK1)				Prepared & Analyzed: 06/12/13						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EBF0215-BS1)				Prepared & Analyzed: 06/12/13						
Total Phenolics	1.05	0.140	mg/L	1.00		105	80-120			
Matrix Spike (EBF0215-MS1)		Source: E3F0095-01		Prepared & Analyzed: 06/12/13						
Total Phenolics	1.00	0.140	mg/L	1.00	ND	100	70-130			
Matrix Spike Dup (EBF0215-MSD1)		Source: E3F0095-01		Prepared & Analyzed: 06/12/13						
Total Phenolics	1.00	0.140	mg/L	1.00	ND	100	70-130	0.1	20	
Batch EBF0251 - EPA 1664										
Blank (EBF0251-BLK1)				Prepared & Analyzed: 06/13/13						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EBF0251-BS1)				Prepared & Analyzed: 06/13/13						
Oil & Grease (HEM)	34.0	5.00	mg/L	40.0		85	78-114			
Matrix Spike (EBF0251-MS1)		Source: E3B0279-01		Prepared & Analyzed: 06/13/13						
Oil & Grease (HEM)	43.0	5.00	mg/L	40.0	24.1	47	78-114			M-04

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/14/13 13:09

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EBF0183 - General Prep - Wet Chem (Aq)										
Blank (EBF0183-BLK1)				Prepared: 06/10/13 Analyzed: 06/11/13						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EBF0183-BS1)				Prepared: 06/10/13 Analyzed: 06/11/13						
Total Suspended Solids	1040	25.0	mg/L	1000		104	80-120			
Duplicate (EBF0183-DUP1)		Source: E3F0055-01		Prepared: 06/10/13 Analyzed: 06/11/13						
Total Suspended Solids	141	25.0	mg/L		145			3	20	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/14/13 13:09

Non Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2014
NDSDH	North Dakota Accredited	R-191	06/30/2013
NELAP	NELAP Accredited	10002	06/30/2013
ODEQ	Oklahoma Accredited	2012-154	08/31/2013
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/14/13 13:09

Notes and Definitions

M-04	The laboratory control spike recovery was lower than expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Environmental Testing Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

E3F0095

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

June 10, 2013

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 06072013 A and B total suspended solids, oil and grease, and total phenols.

E3F0095

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
06072013 A & B	June 7, 2013	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	**Witness(es)**
Bob Mixon	

Remarks:

Received on Ice (4° C) 0.0°C on ice 60284

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	J. J. Black	June 10, 2013	0800 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL
TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E3F0095

1. Were samples received on ice? YES NO
2. Temperature of representative sample or temperature blank 0.0 °C
3. If the temperature is ≤ 0°C, was the representative sample or temp blank frozen? YES NO NA
4. Did all containers arrive in good condition (unbroken)? YES NO
5. Were VOA vials received? YES NO
    a. Was there any observable headspace present in any VOA vial? YES NO NA
6. Were the correct containers used for the analysis requested? YES NO
7. Was there sufficient amount of sample to perform the requested tests in each container? YES NO
8. Were the samples received with sufficient time left to meet holding time requirements? YES NO
9. On preserved containers, did pH strips suggest preservation reached the correct pH level? YES NO NA
   (DO NOT OPEN VOA VIALS TO CHECK pH)

   Acid Preserved ≤2 Other ________ Base Preserved ≥12 Other ________

10. Did the containers indicate the correct preservatives were used for the requested analysis? YES NO NA
11. Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)? YES NO
12. If samples were not in compliance, was the client notified of the nonconformity? YES Date:________ Initial:________
    a. If yes, does the client wish to proceed with analysis? YES NO
13. Was the client notified of the intent to subcontract work that will NOT be performed by ETI? YES Date:________ Initial:________

Preservative ID(s) E130261, ________, ________, ________

I certify that all of the above checks were completed. (Initial) OW

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container. (Initial) OW

Notes: 1 liter H_2SO_4 preserved for Phenols for both samples. No HCL preserved samples for Oil & Grease.

Report and Accompanying Data Reviewed by: ________________ Date: ________________

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

19 November 2013

Mr. Bob Mixon

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E3K0135
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 11/11/13 07:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Mosley For Russell Britten
President

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	11/19/13 13:44

11082013 BM

E3K0135-01 (Aqueous) - Sampled: 11/08/13 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Environmental Testing, Inc.					
Conventional Chemistry Parameters by EPA Methods									**P-01**
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.03	EBK0192	PJM	11/12/13 09:00	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EBK0266	DMB	11/15/13 15:15	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<10.0	10.0	mg/L	4	EBK0261	DMB	11/15/13 11:35	SM 2540D	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Brandon Mosley For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	11/19/13 13:44

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EBK0192 - EPA 1664										
Blank (EBK0192-BLK1)				Prepared & Analyzed: 11/12/13						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EBK0192-BS1)				Prepared & Analyzed: 11/12/13						
Oil & Grease (HEM)	37.0	5.00	mg/L	40.0		92	78-114			
Matrix Spike (EBK0192-MS1)		**Source: E3K0015-02**		Prepared & Analyzed: 11/12/13						
Oil & Grease (HEM)	132	5.00	mg/L	40.0	61.9	176	78-114			M-02
Batch EBK0266 - General Prep - Wet Chem (Aq)										
Blank (EBK0266-BLK1)				Prepared & Analyzed: 11/15/13						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EBK0266-BS1)				Prepared & Analyzed: 11/15/13						
Total Phenolics	1.01	0.140	mg/L	1.00		101	80-120			
Matrix Spike (EBK0266-MS1)		**Source: E3K0135-01**		Prepared & Analyzed: 11/15/13						
Total Phenolics	1.04	0.140	mg/L	1.00	0.0170	102	70-130			
Matrix Spike Dup (EBK0266-MSD1)		**Source: E3K0135-01**		Prepared & Analyzed: 11/15/13						
Total Phenolics	0.996	0.140	mg/L	1.00	0.0170	98	70-130	5	20	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Brandon Mosley For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	11/19/13 13:44

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EBK0261 - General Prep - Wet Chem (Aq)										
Blank (EBK0261-BLK1)				Prepared: 11/14/13 Analyzed: 11/15/13						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EBK0261-BS1)				Prepared: 11/14/13 Analyzed: 11/15/13						
Total Suspended Solids	882	25.0	mg/L	1000		88	80-120			
Duplicate (EBK0261-DUP1)		**Source: E3K0185-02**		Prepared: 11/14/13 Analyzed: 11/15/13						
Total Suspended Solids	110	25.0	mg/L		111			0.9	20	
Duplicate (EBK0261-DUP2)		**Source: E3K0216-01**		Prepared: 11/14/13 Analyzed: 11/15/13						
Total Suspended Solids	84.0	25.0	mg/L		84.0			0	20	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Brandon Mosley For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	11/19/13 13:44

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2014
NELAP	NELAP Accredited	10002	06/30/2014
ODEQ	Oklahoma Accredited	2013-063	08/31/2014
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Brandon Mosley For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project:	MBWP Outfall 001	
P.O. Box 327	Project Number:	No Project	Reported:
Idabel OK, 74745	Project Manager:	Mr. Bob Mixon	11/19/13 13:44

Notes and Definitions

M-02	The matrix spike recovery was higher than expected due to sample matrix interference.
P-01	The sample was incorrectly preserved for for the analysis requested.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte

Environmental Testing, Inc.

Brandon Mosley For Russell Britten, President

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

E3KO135

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

November 10, 2013

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 11082013 BM total suspended solids, oil and grease, and total phenols.

E3K0135

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
11082013 BM	November 8, 2013	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	**Witness(es)**
Bob Mixon	

Remarks:

Received on Ice (4°C) Rec'd @ 0.4°C E001 84

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	J. J. Black	November 11, 2013	0750 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL
TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E3K0135

1.	Were samples received on ice?	YES NO
2.	Temperature of representative sample or temperature blank 0.4 °C	
3.	If the temperature is ≤ 0°C, was the representative sample or temp blank frozen?	YES NO NA
4.	Did all containers arrive in good condition (unbroken)?	YES NO
5.	Were VOA vials received?	YES NO
a.	Was there any observable headspace present in any VOA vial?	YES NO NA
6.	Were the correct containers used for the analysis requested?	YES NO
7.	Was there sufficient amount of sample to perform the requested tests in each container?	YES NO
8.	Were the samples received with sufficient time left to meet holding time requirements?	YES NO
9.	On preserved containers, did pH strips suggest preservation reached the correct pH level? (DO NOT OPEN VOA VIALS TO CHECK pH)	YES NO NA
	Acid Preserved ≤2 Other 7 Base Preserved ≥12 Other ____	
10.	Did the containers indicate the correct preservatives were used for the requested analysis?	YES NO NA
11.	Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)?	YES NO
12.	If samples were not in compliance, was the client notified of the nonconformity?	YES Date: ____ Initial: ____
a.	If yes, does the client wish to proceed with analysis?	YES NO
13.	Was the client notified of the intent to subcontract work that will NOT be performed by ETI?	YES Date: ____ Initial: ____

Preservative ID(s) E130761, ____, ____, ____

I certify that all of the above checks were completed. (Initial) OW

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container. (Initial) OW

Notes:
No preserved sample for Oil & Grease or Phenols. H_2SO_4 added to one container for phenols @ ETI.

Report and Accompanying Data Reviewed by: ____ Date: ____

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

18 March 2015

Mr. Bob Mixon

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E5C0162
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 03/11/15 12:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/18/15 23:42

031022015 BM

E5C0162-01 (Aqueous) - Sampled: 03/10/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.09	EDC0220	FJM	03/12/15 08:29	EPA 1664A (HEM)	P-01
Total Phenolics	<0.140	0.140	mg/L	1	EDC0285	MKB	03/16/15 11:35	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EDC0320	BLG	03/17/15 13:10	SM 2540D	

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/18/15 23:42

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDC0220 - EPA 1664										
Blank (EDC0220-BLK1)				Prepared: 03/11/15 Analyzed: 03/12/15						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
Batch EDC0285 - General Prep - Wet Chem (Aq)										
Blank (EDC0285-BLK1)				Prepared & Analyzed: 03/16/15						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EDC0285-BS1)				Prepared & Analyzed: 03/16/15						
Total Phenolics	0.999	0.140	mg/L	1.00		100	80-120			
Matrix Spike (EDC0285-MS1)		Source: E5C0162-01		Prepared & Analyzed: 03/16/15						
Total Phenolics	0.971	0.140	mg/L	1.00	0.125	85	80-120			
Matrix Spike Dup (EDC0285-MSD1)		Source: E5C0162-01		Prepared & Analyzed: 03/16/15						
Total Phenolics	1.04	0.140	mg/L	1.00	0.125	92	80-120	7	20	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/18/15 23:42

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDC0320 - General Prep - Wet Chem (Aq)										
Blank (EDC0320-BLK1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EDC0320-BS1)				Prepared: 03/16/15 Analyzed: 03/17/15						
Total Suspended Solids	858	25.0	mg/L	1000		86	80-120			
Duplicate (EDC0320-DUP1)		**Source: E5C0174-01**		Prepared: 03/16/15 Analyzed: 03/17/15						
Total Suspended Solids	475	125	mg/L		510			7	20	
Duplicate (EDC0320-DUP2)		**Source: E5C0198-02**		Prepared: 03/16/15 Analyzed: 03/17/15						
Total Suspended Solids	174	25.0	mg/L		170			2	20	

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/18/15 23:42

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	03/31/2015
NDSDH	North Dakota Accredited	R-191	06/30/2015
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2015
ODEQ	Oklahoma Accredited	2013-063	08/31/2015
TCEQ	Texas Accredited	T104704498-13-3	03/31/2015

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/18/15 23:42

Qualifiers and Definitions

P-01	The sample was incorrectly preserved for for the analysis requested.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte

E5C0162

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

March 11, 2015

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 03102015 BM total suspended solids, oil and grease, and total phenols.

E5C0162

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
03102015 BM	March 10, 2015	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	Witness(es)
Bob Mixon	

Remarks: rcvd @ 2.4°C

Received on Ice (4° C) E00184 on ice

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	J. J. Black	March 11, 2015	1213 hrs.
	Disposition of Sample	**Signature**	
	ETL for analysis	CWoody	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

Printed: 3/11/2015 12:32:02PM

E5C0162

Environmental Testing, Inc.

Client:	Mixon Brothers Wood Preserving, Inc.	**Project Manager:**	Russell Britten
Project:	MBWP Outfall 001	**Project Number:**	No Project

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone :(580) 286-9494
Fax: n/a

Date Due:	03/18/15 17:00 (5 day TAT)		
Received By:	Cassandra Woody	Date Received:	03/11/15 12:13
Logged In By:	Cassandra Woody	Date Logged In:	03/11/15 12:28

Samples Received at:		2.4°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes: Oil & Grease container not labeled HCL preserved. CW

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E5C0162-01 B	Amber H2SO4 - 1000mL	<2 pres. at lab	3/11/15 1238	9140359

[signature] 3/11/15

Preservation Confirmed By — Date

Reviewed By — Date

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

02 June 2015

Mr. Bob Mixon

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E5E0378
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 05/22/15 12:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/02/15 10:56

05212015 BM

E5E0378-01 (Aqueous) - Sampled: 05/21/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.09	EDE0481	FJM	05/27/15 14:41	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EDF0008	MKB	06/01/15 11:45	EPA 420.1	

Conventional Chemistry Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Total Suspended Solids	<12.5	12.5	mg/L	5	EDE0479	ECF	05/27/15 11:40	SM 2540D	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/02/15 10:56

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDE0481 - EPA 1664										
Blank (EDE0481-BLK1)				Prepared & Analyzed: 05/27/15						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EDE0481-BS1)				Prepared & Analyzed: 05/27/15						
Oil & Grease (HEM)	39.2	5.00	mg/L	40.0		98	78-114			
Batch EDF0008 - General Prep - Wet Chem (Aq)										
Blank (EDF0008-BLK1)				Prepared & Analyzed: 06/01/15						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EDF0008-BS1)				Prepared & Analyzed: 06/01/15						
Total Phenolics	1.06	0.140	mg/L	1.00		106	80-120			
Matrix Spike (EDF0008-MS1)		**Source: E5E0378-01**		Prepared & Analyzed: 06/01/15						
Total Phenolics	1.10	0.140	mg/L	1.00	0.0250	107	80-120			
Matrix Spike Dup (EDF0008-MSD1)		**Source: E5E0378-01**		Prepared & Analyzed: 06/01/15						
Total Phenolics	1.06	0.140	mg/L	1.00	0.0250	103	80-120	4	20	

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/02/15 10:56

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDE0479 - General Prep - Wet Chem (Aq)										
Blank (EDE0479-BLK1)				Prepared: 05/26/15 Analyzed: 05/27/15						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EDE0479-BS1)				Prepared: 05/26/15 Analyzed: 05/27/15						
Total Suspended Solids	866	25.0	mg/L	1000		87	80-120			
Duplicate (EDE0479-DUP1)		Source: E5E0355-04		Prepared: 05/26/15 Analyzed: 05/27/15						
Total Suspended Solids	7670	833	mg/L		7600			0.9	20	
Duplicate (EDE0479-DUP2)		Source: E5E0392-04		Prepared: 05/26/15 Analyzed: 05/27/15						
Total Suspended Solids	3210	250	mg/L		3110			3	20	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/02/15 10:56

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2015
ODEQ	Oklahoma Accredited	2013-063	08/31/2015
TCEQ	Texas Accredited	T104704498-15-5	03/31/2016

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/02/15 10:56

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E5E0378

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

May 22, 2015

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 05212015 BM total suspended solids, oil and grease, and total phenols.

E5E0318

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
05212015 BM	May ~~22~~ 21, 2015 per J.B. OW 5/22/15	1030 hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	Witness(es)
Bob Mixon	

Remarks: Rcvd @ 1.6°C

Received on Ice (4°C) E00184 on ice

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	J. J. Black	May 22, 2015	1226 hrs.
	Disposition of Sample ETI. for analysis	**Signature** OWoody	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E5E0378

Environmental Testing, Inc.

Printed: 5/22/2015 4:07:40PM

Client:	Mixon Brothers Wood Preserving, Inc.	Project Manager:	Russell Britten
Project:	MBWP Outfall 001	Project Number:	No Project

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone :(580) 286-9494
Fax: n/a

Date Due:	06/01/15 17:00 (5 day TAT)		
Received By:	Cassandra Woody	Date Received:	05/22/15 12:26
Logged In By:	Cassandra Woody	Date Logged In:	05/22/15 14:55

Samples Received at:		1.6°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E5E0378-01 B	Amber H2SO4 - 500mL	<2	5/22/15 1518	E140359

CWoody
Preservation Confirmed By

5/22/15
Date

Reviewed By

Date

wko_ETIwpres_rev0.6.rpt

Revised
Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

31 December 2015

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E5L0300
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 12/16/15 11:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

Initial analyses for phenol by method 420.1 indicated low level phenols were present. The sample has color which caused a positive interference so phenol by method 8270 was analyzed to confirm that phenol is not present.

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

12152015 BM

E5L0300-01 (Aqueous)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.08	EDL0367	FJM	12/17/15 12:31	EPA 1664A (HEM)	
Total Phenolics	**0.398**	0.140	mg/L	1	EDL0479	BLG	12/22/15 12:10	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EDL0373	BLG	12/17/15 11:00	SM 2540 D	
Semivolatile Organic Compounds by EPA Method 8270									
Phenol	<27.0	27.0	ug/L	2.7	EDL0563	CDH	12/30/15 11:46	EPA 8270D	
Surrogate: 2-Fluorophenol		*69 %*		*1-156*	*EDL0563*	CDH	*12/30/15 11:46*	*EPA 8270D*	
Surrogate: Phenol-d5		*74 %*		*1-146*	*EDL0563*	CDH	*12/30/15 11:46*	*EPA 8270D*	
Surrogate: Nitrobenzene-d5		*75 %*		*11.1-118*	*EDL0563*	CDH	*12/30/15 11:46*	*EPA 8270D*	
Surrogate: 2-Fluorobiphenyl		*82 %*		*14-134*	*EDL0563*	CDH	*12/30/15 11:46*	*EPA 8270D*	
Surrogate: 2,4,6-Tribromophenol		*102 %*		*20.9-145*	*EDL0563*	CDH	*12/30/15 11:46*	*EPA 8270D*	
Surrogate: Terphenyl-d14		*32 %*		*1-184*	*EDL0563*	CDH	*12/30/15 11:46*	*EPA 8270D*	
Liquid-Liquid Extraction	Completed		N/A		EDL0563	FJM	12/30/15 10:16	EPA 3520C	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDL0367 - EPA 1664										
Blank (EDL0367-BLK1)				Prepared & Analyzed: 12/17/15						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EDL0367-BS1)				Prepared & Analyzed: 12/17/15						
Oil & Grease (HEM)	39.4	5.00	mg/L	40.0		98	**78-114**			
Batch EDL0479 - General Prep - Wet Chem (Aq)										
Blank (EDL0479-BLK1)				Prepared & Analyzed: 12/22/15						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EDL0479-BS1)				Prepared & Analyzed: 12/22/15						
Total Phenolics	1.05	0.140	mg/L	1.00		105	**80-120**			
Matrix Spike (EDL0479-MS1)		**Source: E5L0300-01**		Prepared & Analyzed: 12/22/15						
Total Phenolics	1.75	0.140	mg/L	1.00	0.398	135	**80-120**			M-02
atrix Spike Dup (EDL0479-MSD1)		**Source: E5L0300-01**		Prepared & Analyzed: 12/22/15						
Total Phenolics	1.76	0.140	mg/L	1.00	0.398	136	**80-120**	0.4	20	M-02

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDL0373 - General Prep - Wet Chem (Aq)										
Blank (EDL0373-BLK1)				Prepared: 12/16/15 Analyzed: 12/17/15						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EDL0373-BS1)				Prepared: 12/16/15 Analyzed: 12/17/15						
Total Suspended Solids	999	25.0	mg/L	1000		100	80-120			
Duplicate (EDL0373-DUP1)		Source: E5L0305-01		Prepared: 12/16/15 Analyzed: 12/17/15						
Total Suspended Solids	128	31.2	mg/L		129			1	20	

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

Semivolatile Organic Compounds by EPA Method 8270 - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EDL0563 - EPA 3520										
Blank (EDL0563-BLK1)				Prepared: 12/29/15 Analyzed: 12/30/15						
Phenol	<10.0	10.0	ug/L							
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*67.4*		ug/L	*100*		*67*	*1-156*			
Surrogate: Phenol-d5	*71.4*		ug/L	*100*		*71*	*1-146*			
Surrogate: Nitrobenzene-d5	*36.3*		ug/L	*50.0*		*73*	*11.1-118*			
Surrogate: 2-Fluorobiphenyl	*38.5*		ug/L	*50.0*		*77*	*14-134*			
Surrogate: 2,4,6-Tribromophenol	*91.9*		ug/L	*100*		*92*	*20.9-145*			
Surrogate: Terphenyl-d14	*46.3*		ug/L	*50.0*		*93*	*1-184*			
LCS (EDL0563-BS1)				Prepared: 12/29/15 Analyzed: 12/30/15						
Phenol	36.9	10.0	ug/L	50.0		74	25.2-100			
Liquid-Liquid Extraction	Completed		N/A							
Surrogate: 2-Fluorophenol	*74.4*		ug/L	*100*		*74*	*1-156*			
Surrogate: Phenol-d5	*79.2*		ug/L	*100*		*79*	*1-146*			
Surrogate: Nitrobenzene-d5	*39.7*		ug/L	*50.0*		*79*	*11.1-118*			
Surrogate: 2-Fluorobiphenyl	*42.6*		ug/L	*50.0*		*85*	*14-134*			
Surrogate: 2,4,6-Tribromophenol	*104*		ug/L	*100*		*104*	*20.9-145*			
Surrogate: Terphenyl-d14	*46.8*		ug/L	*50.0*		*94*	*1-184*			

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2016
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2016
ODEQ	Oklahoma Accredited	2015-150	08/31/2016
TCEQ	Texas Accredited	T104704498-15-5	03/31/2016

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	12/31/15 08:57

Qualifiers and Definitions

M-02	The matrix spike recovery was higher than expected due to sample matrix interference.
COM	Completed
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
.r	Non-Certified analyte

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

EBL0380

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

December 16, 2015

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 12152015 BM total suspended solids, oil and grease, and total phenols.

8270 phenol added per J.B.
12/29/15 aa

E5L0360

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
12152015 BM	December 15, 2015	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	**Witness(es)**
Bob Mixon	

Remarks: 1.2 ℓ 200184 onic

Received on Ice (4° C)

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	J. J. Black	December 16, 2015	1145 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	Caolon	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

JB

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E5L0300

Environmental Testing, Inc.

Printed: 12/16/2015 1:26:33PM

Client:	Mixon Brothers Wood Preserving, Inc.	Project Manager:	Russell Britten
Project:	MBWP Outfall 001	Project Number:	No Project

Report To:

Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:

Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	12/23/15 17:00 (5 day TAT)		
Received By:	Cassandra Colon	Date Received:	12/16/15 11:45
Logged In By:	Cassandra Colon	Date Logged In:	12/16/15 13:25

Samples Received at:		1.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E5L0300-01 B	Amber H2SO4 - 500mL	<2	12/16/15 1330	GA1400071

Preservation Confirmed By

12/16/15
Date

Reviewed By

12/23/15
Date

wko_ETIvpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

29 April 2016

Mr. Bob Mixon
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E6D0358
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 04/25/16 07:28. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/29/16 09:29

04222016 BM

E6D0358-01 (Aqueous) - Sampled: 04/22/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.06	EED0474	FJM	04/28/16 13:14	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EED0483	BLG	04/27/16 14:50	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EED0501	ECF	04/28/16 12:00	SM 2540 D	

Environmental Testing, Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/29/16 09:29

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EED0474 - EPA 1664										
Blank (EED0474-BLK1)				Prepared & Analyzed: 04/28/16						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EED0474-BS1)				Prepared & Analyzed: 04/28/16						
Oil & Grease (HEM)	39.4	5.00	mg/L	40.0		98	78-114			
Batch EED0483 - General Prep - Wet Chem (Aq)										
Blank (EED0483-BLK1)				Prepared & Analyzed: 04/27/16						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EED0483-BS1)				Prepared & Analyzed: 04/27/16						
Total Phenolics	1.04	0.140	mg/L	1.00		104	80-120			
Matrix Spike (EED0483-MS1)		**Source: E6D0358-01**		Prepared & Analyzed: 04/27/16						
Total Phenolics	1.16	0.140	mg/L	1.00	ND	116	80-120			
Matrix Spike Dup (EED0483-MSD1)		**Source: E6D0358-01**		Prepared & Analyzed: 04/27/16						
Total Phenolics	1.06	0.140	mg/L	1.00	ND	106	80-120	9	20	

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/29/16 09:29

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EED0501 - General Prep - Wet Chem (Aq)										
Blank (EED0501-BLK1)				Prepared: 04/27/16 Analyzed: 04/28/16						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EED0501-BS1)				Prepared: 04/27/16 Analyzed: 04/28/16						
Total Suspended Solids	887	25.0	mg/L	1000		89	80-120			
Duplicate (EED0501-DUP1)		**Source: E6D0330-03**		Prepared: 04/27/16 Analyzed: 04/28/16						
Total Suspended Solids	7600	833	mg/L		7630			0.4	20	

Environmental Testing, Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/29/16 09:29

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	05/31/2016
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2016
ODEQ	Oklahoma Accredited	2015-150	08/31/2016
TCEQ	Texas Accredited	T104704498-16-6	03/31/2017

Environmental Testing, Inc.

Russell Britten

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/29/16 09:29

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Original
ETI OKC FINAL COC+PDFs MRL_rev0.31

EleD0358

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

April 23, 2016

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 04222016 BM total suspended solids, oil and grease, and total phenols.

E6D0358

CHAIN OF CUSTODY		
RETURN THIS PAGE TO: **Black and Associates Environmental Consultants, Inc.** 1908 W. Boyd Norman, Oklahoma 73069-4830 (405)360-2852		
Sample Number 04222016 BM	**Date Collected** April 22, 2016	**Time Collected** hours
Site I.D. (station) Mixon Brothers Wood Preserving, Inc. Outfall 001		
Sample Collector Bob Mixon	**Witness(es)**	
Remarks: Received on Ice (4° C) Rec'd on ice @ 0.2 °C F00184		

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	J. J. Black	April 25, 2016	0728 hrs.
	Disposition of Sample ETI. for analysis	**Signature**	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E6D0358

Environmental Testing, Inc.

Printed: 4/25/2016 8:12:00AM

Client:	**Mixon Brothers Wood Preserving, Inc.**	**Project Manager:**	**Russell Britten**
Project:	**MBWP Outfall 001**	**Project Number:**	**No Project**

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	05/02/16 07:00 (5 day TAT)		
Received By:	Russell Britten	Date Received:	04/25/16 07:28
Logged In By:	Cassandra Colon	Date Logged In:	04/25/16 08:05

Samples Received at:		0.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E6D0358-01 B	Amber H2SO4 - 500mL	<2	4/25/16 0828	4140671

Preservation Confirmed By ______________ Date 4/25/16

Reviewed By ______________ Date ______________

wko_ETIwpres_rev0 7.rpt

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

06 December 2016

Mr. Jerry Black
Black and Associates
1908 W. Boyd
Norman, OK 73069

WO: E6K0437
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 11/30/16 12:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Black and Associates	Project: MBWP Outfall 001	
1908 W. Boyd	Project Number: No Project	Reported:
Norman OK, 73069	Project Manager: Mr. Jerry Black	12/06/16 14:27

11292016 BM

E6K0437-01 (Aqueous) - Sampled: 11/29/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.1	EEK0523	VAH	11/30/16 14:31	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EEL0090	ECF	12/05/16 15:50	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EEL0084	ECF	12/05/16 10:40	SM 2540 D	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Black and Associates	Project: MBWP Outfall 001	
1908 W. Boyd	Project Number: No Project	Reported:
Norman OK, 73069	Project Manager: Mr. Jerry Black	12/06/16 14:27

Conventional Chemistry Parameters by EPA Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EEK0523 - EPA 1664										
Blank (EEK0523-BLK1)				Prepared: 11/03/16 Analyzed: 11/30/16						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EEK0523-BS1)				Prepared: 11/03/16 Analyzed: 11/30/16						
Oil & Grease (HEM)	36.8	5.00	mg/L	40.0		92	78-114			
Batch EEL0090 - General Prep - Wet Chem (Aq)										
Blank (EEL0090-BLK1)				Prepared & Analyzed: 12/05/16						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EEL0090-BS1)				Prepared & Analyzed: 12/05/16						
Total Phenolics	1.04	0.140	mg/L	1.00		104	80-120			
Matrix Spike (EEL0090-MS1)		**Source: E6K0437-01**		Prepared & Analyzed: 12/05/16						
Total Phenolics	1.02	0.140	mg/L	1.00	ND	102	80-120			
Matrix Spike Dup (EEL0090-MSD1)		**Source: E6K0437-01**		Prepared & Analyzed: 12/05/16						
Total Phenolics	0.978	0.140	mg/L	1.00	ND	98	80-120	4	20	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Black and Associates	Project: MBWP Outfall 001	
1908 W. Boyd	Project Number: No Project	**Reported:**
Norman OK, 73069	Project Manager: Mr. Jerry Black	12/06/16 14:27

Conventional Chemistry Parameters by Standard Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EEL0084 - General Prep - Wet Chem (Aq)										
Blank (EEL0084-BLK1)				Prepared: 12/02/16 Analyzed: 12/05/16						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EEL0084-BS1)				Prepared: 12/02/16 Analyzed: 12/05/16						
Total Suspended Solids	949	25.0	mg/L	1000		95	80-120			
Duplicate (EEL0084-DUP1)		Source: E6L0012-03		Prepared: 12/02/16 Analyzed: 12/05/16						
Total Suspended Solids	6730	833	mg/L		6730			0	20	
Duplicate (EEL0084-DUP2)		Source: E6L0012-04		Prepared: 12/02/16 Analyzed: 12/05/16						
Total Suspended Solids	6830	833	mg/L		6900			1	20	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Black and Associates	Project: MBWP Outfall 001	
1908 W. Boyd	Project Number: No Project	Reported:
Norman OK, 73069	Project Manager: Mr. Jerry Black	12/06/16 14:27

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2017
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2017
ODEQ	Oklahoma Accredited	2016-009	08/31/2017
TCEQ	Texas Accredited	T104704498-16-6	03/31/2017

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Black and Associates	Project: MBWP Outfall 001	
1908 W. Boyd	Project Number: No Project	**Reported:**
Norman OK, 73069	Project Manager: Mr. Jerry Black	12/06/16 14:27

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

Black and Associates Environmental Consultants, Inc.

9116K0437

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

November 30, 2016

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 11292016 BM total suspended solids, oil and grease, and total phenols.

16K0437

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
11292016 BM	November 29, 2016	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	Witness(es)
Bob Mixon	

Remarks:

Received on Ice (4° C) 0.8°C on ice 60084

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	J. J. Black	November 30, 2016	1225 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E6K0437

Environmental Testing, Inc.

Printed: 11/30/2016 12:39:04PM

Client:	Mixon Brothers Wood Preserving, Inc.	Project Manager:	Russell Britten
Project:	MBWP Outfall 001	Project Number:	No Project

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Jerry Black
1202 NW 16th St.
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	12/07/16 17:00 (5 day TAT)		
Received By:	Andra Hoot	Date Received:	11/30/16 12:25
Logged In By:	Andra Hoot	Date Logged In:	11/30/16 12:30

Samples Received at:		0.8°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E6K0437-01 C	Amber H2SO4 - 500mL	<2	11/30/16 1253	9/15/200

Preservation Confirmed By: A Hoot

Date: 11/30/16

Reviewed By

Date

wko_ETIwpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

19 July 2017

Mr. Bob Mixon

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745

WO: E7G0087
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 07/07/17 11:48. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

Original (P)

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: 07062017	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	07/19/17 16:55

07062017 BM

E7G0087-01 (Aqueous) - Sampled: 07/06/17 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Oil & Grease (HEM)	<5.00	5.00	mg/L	1.05	EFG0094	VAH	07/10/17 08:30	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EFG0200	BLS	07/13/17 14:35	EPA 420.1	

Conventional Chemistry Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Total Suspended Solids	<12.5	12.5	mg/L	5	EFG0104	BLS	07/10/17 10:30	SM 2540 D	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: 07062017	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	07/19/17 16:55

QUALITY CONTROL

Conventional Chemistry Parameters by EPA Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFG0094 - EPA 1664										
Blank (EFG0094-BLK1)				Prepared & Analyzed: 07/10/17						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EFG0094-BS1)				Prepared & Analyzed: 07/10/17						
Oil & Grease (HEM)	36.9	5.00	mg/L	40.0		92	78-114			
Batch EFG0200 - General Prep - Wet Chem (Aq)										
Blank (EFG0200-BLK1)				Prepared & Analyzed: 07/13/17						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EFG0200-BS1)				Prepared & Analyzed: 07/13/17						
Total Phenolics	1.06	0.140	mg/L	1.00		106	80-120			
Matrix Spike (EFG0200-MS1)		Source: E7G0087-01		Prepared & Analyzed: 07/13/17						
Total Phenolics	1.02	0.140	mg/L	1.00	0.0240	100	80-120			
Matrix Spike Dup (EFG0200-MSD1)		Source: E7G0087-01		Prepared & Analyzed: 07/13/17						
Total Phenolics	1.01	0.140	mg/L	1.00	0.0240	99	80-120	1	20	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

Original

NVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: 07062017	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	07/19/17 16:55

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EFG0104 - General Prep - Wet Chem (Aq)										
Blank (EFG0104-BLK1)				Prepared: 07/07/17 Analyzed: 07/10/17						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EFG0104-BS1)				Prepared: 07/07/17 Analyzed: 07/10/17						
Total Suspended Solids	820	25.0	mg/L	1000		82	80-120			
Duplicate (EFG0104-DUP1)		Source: E7G0048-01		Prepared: 07/07/17 Analyzed: 07/10/17						
Total Suspended Solids	143	25.0	mg/L		160			11	20	

onmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: 07062017	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	07/19/17 16:55

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2018
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2016-009	08/31/2017
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving, Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: 07062017	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	07/19/17 16:55

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

vironmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E7G0087

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

July 7, 2017

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 07062017 BM total suspended solids, oil and grease, and total phenols.

E7G10087

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	**Date Collected**	**Time Collected**
07062017 BM	July 6, 2017	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	**Witness(es)**
Bob Mixon	

Remarks: 3.2°C @ 00184

Received on Ice (4° C) on ice

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From** J. J. Black	**Dated Received** July 7, 2017	**Time Rec'd** 1148 hrs.
	Disposition of Sample ETI. for analysis	**Signature** OCoron	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd** hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E7G0087

Environmental Testing, Inc.

Printed: 7/7/2017 12:18:08PM

Client:	Mixon Brothers Wood Preserving, Inc.	Project Manager:	Russell Britten
Project:	MBWP Outfall 001	Project Number:	07062017

Report To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving, Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	07/14/17 17:00 (5 day TAT)		
Received By:	Cassandra Colon	Date Received:	07/07/17 11:48
Logged In By:	Cassandra Colon	Date Logged In:	07/07/17 12:15

Samples Received at:		3.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E7G0087-01 D	Amber H2SO4 - 500mL	<2	7/7/17 1317	415200

Preservation Confirmed By [signature]

Date 7/7/17

Reviewed By

Date

wko_ETIwpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

07 March 2018

Mr. Bob Mixon

Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

W.O: E8C0011
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 3/1/2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

Original (P)

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/07/18 12:04

02282018 BM

E8C0011-01 (Aqueous) - Sampled: 02/28/18 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	EGC0031	VAH	03/02/18 08:30	EPA 1664A (HEM)	
Total Phenolics	<0.140	0.140	mg/L	1	EGC0111	BLS	03/06/18 13:25	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EGC0077	BLS	03/05/18 10:45	SM 2540 D	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/07/18 12:04

QUALITY CONTROL

Conventional Chemistry Parameters by EPA Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EGC0031 - EPA 1664										
Blank (EGC0031-BLK1)				Prepared & Analyzed: 03/02/18						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EGC0031-BS1)				Prepared & Analyzed: 03/02/18						
Oil & Grease (HEM)	32.9	5.00	mg/L	40.0		82	78-114			
Matrix Spike (EGC0031-MS1)		**Source: E8B0561-02**		Prepared & Analyzed: 03/02/18						
Oil & Grease (HEM)	45.1	5.00	mg/L	44.9	4.79	90	78-114			
Batch EGC0111 - General Prep - Wet Chem (Aq)										
Blank (EGC0111-BLK1)				Prepared & Analyzed: 03/06/18						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EGC0111-BS1)				Prepared & Analyzed: 03/06/18						
Total Phenolics	1.05	0.140	mg/L	1.00		105	80-120			
Matrix Spike (EGC0111-MS1)		**Source: E8C0011-01**		Prepared & Analyzed: 03/06/18						
Total Phenolics	0.914	0.140	mg/L	1.00	ND	91	80-120			
Matrix Spike Dup (EGC0111-MSD1)		**Source: E8C0011-01**		Prepared & Analyzed: 03/06/18						
Total Phenolics	1.00	0.140	mg/L	1.00	ND	100	80-120	9	20	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/07/18 12:04

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EGC0077 - General Prep - Wet Chem (Aq)										
Blank (EGC0077-BLK1)				Prepared: 03/02/18 Analyzed: 03/05/18						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EGC0077-BS1)				Prepared: 03/02/18 Analyzed: 03/05/18						
Total Suspended Solids	869	25.0	mg/L	1000		87	80-120			
Duplicate (EGC0077-DUP1)		Source: E8C0008-03		Prepared: 03/02/18 Analyzed: 03/05/18						
Total Suspended Solids	8500	833	mg/L		8670			2	10	
Duplicate (EGC0077-DUP2)		Source: E8C0008-04		Prepared: 03/02/18 Analyzed: 03/05/18						
Total Suspended Solids	8670	833	mg/L		8800			2	10	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/07/18 12:04

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2019
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2018
ODEQ	Oklahoma Accredited	2017-128	08/31/2018
TCEQ	Texas Accredited	T104704498-17-7	03/31/2018

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/07/20 13:53

03312020 BM

E0D0009-01 (Aqueous) - Sampled: 03/31/20 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	E1D0098	VAH	04/07/20 08:00	EPA 1664A 1999	
Total Phenolics	<0.140	0.140	mg/L	1	E1D0063	LDH	04/03/20 11:30	EPA 420.1 1978	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	E1D0030	LDH	04/03/20 09:50	SM 2540 D-2011	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/07/20 13:53

QUALITY CONTROL

Conventional Chemistry Parameters by EPA Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch E1D0063 - General Prep - Wet Chem (Aq)										
Blank (E1D0063-BLK1)				Prepared & Analyzed: 04/03/20						
Total Phenolics	<0.140	0.140	mg/L							
LCS (E1D0063-BS1)				Prepared & Analyzed: 04/03/20						
Total Phenolics	1.00	0.140	mg/L	1.000		100	80-120			
Matrix Spike (E1D0063-MS1)		Source: E0D0009-01		Prepared & Analyzed: 04/03/20						
Total Phenolics	1.12	0.140	mg/L	1.000	ND	112	80-120			
Matrix Spike Dup (E1D0063-MSD1)		Source: E0D0009-01		Prepared & Analyzed: 04/03/20						
Total Phenolics	1.05	0.140	mg/L	1.000	ND	105	80-120	7	20	
Batch E1D0098 - EPA 1664										
Blank (E1D0098-BLK1)				Prepared & Analyzed: 04/07/20						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (E1D0098-BS1)				Prepared & Analyzed: 04/07/20						
Oil & Grease (HEM)	41.0	5.00	mg/L	40.00		102	78-114			

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/07/20 13:53

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EID0030 - General Prep - Wet Chem (Aq)										
Blank (EID0030-BLK1)				Prepared: 04/02/20 Analyzed: 04/03/20						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EID0030-BS1)				Prepared: 04/02/20 Analyzed: 04/03/20						
Total Suspended Solids	978	25.0	mg/L	1000		98	80-120			
Duplicate (EID0030-DUP1)		**Source: E0C0496-01**		Prepared: 04/02/20 Analyzed: 04/03/20						
Total Suspended Solids	<12.5	12.5	mg/L		ND				10	
Duplicate (EID0030-DUP2)		**Source: E0D0012-01**		Prepared: 04/02/20 Analyzed: 04/03/20						
Total Suspended Solids	1.80	5.00	mg/L		1.30			32	10	R-01

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

EID0006
Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/07/20 13:53

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
NELAP/LA	NELAP Accredited (LDEQ)	10002	06/30/2020
NELAP/OK	NELAP Accredited (ODEQ)	2019-175	08/31/2020
OMMA	OMMA Testing Laboratory	LAAA-4YOC-PGXU	03/29/2021
TCEQ	Texas Accedited (TCEQ)	T104704498-20-10	03/31/2021

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	04/07/20 13:53

Qualifiers and Definitions

R-01	The RPD between sample duplicates exceeded the method or laboratory control limit. This may indicate the results are not as precise as expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

90D0009

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

April 1, 2020

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 03312020 BM for total suspended solids, oil and grease, and total phenols.

03312020 BM are liquid samples.

40D0009

CHAIN OF CUSTODY		
RETURN THIS PAGE TO: **Black and Associates Environmental Consultants, Inc.** 1908 W. Boyd Norman, Oklahoma 73069-4830 (405)360-2852		
Sample Number 03312020 BM	**Date Collected** March 31, 2020	**Time Collected** hours
Site I.D. (station) MBWP Outfall 001		
Sample Collector Bob Mixon	**Witness(es)**	
Remarks: Received on Ice (4° C) T1000043 +1.3=2.6 Rec'd on ice @ 1.3 °C		

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
	J. J. Black	April 1, 2020	1138 hrs.
	Disposition of Sample	**Signature**	
	ETI. for analysis	[signature]	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd**
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

Sample Receipt Form: E0D0009

Printed: 4/1/2020 12:23:31PM

Environmental Testing, Inc.

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**MBWP Outfall 001**	**Project Number:**	**No Project**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	04/08/20 17:00 (5 day TAT)		
Received By:	Russell Britten	Date Received:	04/01/20 11:38
Logged In By:	Andra Hoot	Date Logged In:	04/01/20 12:21

Samples Received at:		2.6°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E0D0009-01 B	Amber H2SO4 - 500mL	< 2	4/1/20 1233	N/A

Preservation Confirmed By: [signature]   Date: 4/1/20

Reviewed By   Date

wko_EOC_wpres_rev4.7.rpt

E0D0009

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

07 June 2021

Mr. Bob Mixon

Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E1E0451
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 5/28/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
President

Original (P)

E1E0451

NVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/07/21 08:35

05272021 BM

E1E0451-01 (Aqueous) - Sampled: 05/27/21 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	EJF0054	VAH	06/04/21 08:00	EPA 1664A 1999	
Total Phenolics	<0.140	0.140	mg/L	1	EJF0108	LDH	06/04/21 14:40	EPA 420.1 1978	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EJF0037	BT	06/03/21 10:45	SM 2540 D-2011	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/07/21 08:35

QUALITY CONTROL

Conventional Chemistry Parameters by EPA Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EJF0054 - EPA 1664										
Blank (EJF0054-BLK1)				**Prepared & Analyzed: 06/04/21**						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EJF0054-BS1)				**Prepared & Analyzed: 06/04/21**						
Oil & Grease (HEM)	39.5	5.00	mg/L	40.00		99	78-114			
Batch EJF0108 - General Prep - Wet Chem (Aq)										
Blank (EJF0108-BLK1)				**Prepared & Analyzed: 06/04/21**						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EJF0108-BS1)				**Prepared & Analyzed: 06/04/21**						
Total Phenolics	1.04	0.140	mg/L	1.000		104	80-120			
Matrix Spike (EJF0108-MS1)		**Source: E1E0446-02**		**Prepared & Analyzed: 06/04/21**						
Total Phenolics	1.12	0.140	mg/L	1.000	0.113	101	80-120			
Matrix Spike Dup (EJF0108-MSD1)		**Source: E1E0446-02**		**Prepared & Analyzed: 06/04/21**						
Total Phenolics	1.10	0.140	mg/L	1.000	0.113	99	80-120	2	20	

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E1E0451
Original
ETI_OKC_RPT MRL_rev2.0.rpt

E1E0451

NVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/07/21 08:35

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EJF0037 - General Prep - Wet Chem (Aq)										
Blank (EJF0037-BLK1)				**Prepared: 06/02/21 Analyzed: 06/03/21**						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EJF0037-BS1)				**Prepared: 06/02/21 Analyzed: 06/03/21**						
Total Suspended Solids	932	25.0	mg/L	1000		93	80-120			
Duplicate (EJF0037-DUP1)		**Source: E1E0451-01**		**Prepared: 06/02/21 Analyzed: 06/03/21**						
Total Suspended Solids	<12.5	12.5	mg/L		ND				10	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	06/07/21 08:35

Certifications

Code	Description	Number	Expires
NELAP/OK	NELAP Accredited (ODEQ)	2020-069	08/31/2021
TCEQ	Texas Accedited (TCEQ)	T104704498-21-11	03/31/2022

Qualifiers and Definitions

Abbreviation	Description
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

Qualifier	Description
HEM	Hexane Extractable Material

ENVIRONMENTAL TESTING, INC.

Sample Receipt Form: E1E0451

Environmental Testing, Inc.

E1E0451

Printed: 5/28/2021 2:24:50PM

E-1-E-0451

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**MBWP Outfall 001**	**Project Number:**	**No Project**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	06/07/21 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	05/28/21 13:28
Logged In By:	Stephanie Saul	Date Logged In:	05/28/21 14:19

Samples Received at:		2.8°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E1E0451-01 B	Amber H2SO4 - 500mL	<2	5.28.21 1420	E170903

Steph Saul
Preservation Confirmed By

5.28.21
Date

Reviewed By

Date

wko_EOC_wpres_rev8.0.rpt

E1E0457

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

May 28, 2021

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 05272021 BM for total suspended solids, oil and grease, and total phenols.

05272021 BM are liquid samples.

BEF0451

CHAIN OF CUSTODY			
RETURN THIS PAGE TO: **Black and Associates Environmental Consultants, Inc.** 1908 W. Boyd Norman, Oklahoma 73069-4830 (405)360-2852			
Sample Number 05272021 BM	**Date Collected** May 27, 2021	**Time Collected** hours	
Site I.D. (station) MBWP Outfall 001			
Sample Collector Bob Mixon	**Witness(es)**		
Remarks: 1.5+1.3 = 2.8 on Ice Received on Ice (4° C) TR00043			
I hereby certify that I received this sample and disposed of as noted below:			
RECEIPT OF SAMPLE	**Received From** J. J. Black	**Dated Received** May 28, 2021	**Time Rec'd** 13:28 hrs.
	Disposition of Sample ETI. for analysis	**Signature** Stefan Saul	
I hereby certify that I received this sample and disposed of it as noted below:			
RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd** hrs.
	Disposition of Sample	**Signature**	

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

07 April 2020

Mr. Bob Mixon

Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E0D0009
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 4/1/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

Russell Britten
President

Original (P)

E0D0009

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	03/07/18 12:04

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

Black and Associates
Environmental Consultants, Inc. a8C0011
1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

March 1, 2018

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 02282018 BM for total suspended solids, oil and grease, and total phenols.

02282018 BM are liquid samples.

98C0011

CHAIN OF CUSTODY			
RETURN THIS PAGE TO: **Black and Associates Environmental Consultants, Inc.** 1908 W. Boyd Norman, Oklahoma 73069-4830 (405)360-2852			
Sample Number 02282018 BM	**Date Collected** February 28, 2018	**Time Collected** hours	
Site I.D. (station) MBWP Outfall 001			
Sample Collector Bob Mixon	**Witness(es)**		
Remarks: Received on Ice (4° C) 1.2°C Z1000318			
I hereby certify that I received this sample and disposed of as noted below:			
RECEIPT OF SAMPLE	**Received From** J. J. Black	**Dated Received** March 1, 2018	**Time Rec'd** 12:35 hrs.
	Disposition of Sample ETI. for analysis	**Signature**	
I hereby certify that I received this sample and disposed of it as noted below:			
RECEIPT OF SAMPLE	**Received From**	**Dated Received**	**Time Rec'd** hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E8C0011

Environmental Testing, Inc.

Client:	Mixon Brothers Wood Preserving Inc.	Project Manager:	Russell Britten
Project:	MBWP Outfall 001	Project Number:	No Project

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	03/08/18 17:00 (5 day TAT)		
Received By:	James Vandersee	Date Received:	03/01/18 12:35
Logged In By:	Andra Hoot	Date Logged In:	03/01/18 13:42

Samples Received at:		1.2°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E8C0011-01 C	Amber H2SO4 - 500mL	<2	3/1/18	4110358

Preservation Confirmed By [signature] Date 3/1/18

Reviewed By Date

wko_ETIwpres_rev0.7.rpt

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

10 May 2019

Mr. Bob Mixon
Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E9E0091
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 5/6/2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
President

Original (P)

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/10/19 15:21

05032019 BM

E9E0091-01 (Aqueous) - Sampled: 05/03/19 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Environmental Testing, Inc.									
Conventional Chemistry Parameters by EPA Methods									
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	EHE0224	FJM	05/10/19 08:00	EPA 1664A 1999	
Total Phenolics	<0.140	0.140	mg/L	1	EHE0244	BLS	05/10/19 11:50	EPA 420.1	
Conventional Chemistry Parameters by Standard Methods									
Total Suspended Solids	<12.5	12.5	mg/L	5	EHE0248	BLS	05/10/19 12:40	SM 2540 D-20th ED	

Environmental Testing, Inc.

Keith Hopcus For Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E9E0091
Original
ETI_OKC_EPI_MRL_rev9 1.rpt

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/10/19 15:21

QUALITY CONTROL

Conventional Chemistry Parameters by EPA Methods

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHE0224 - EPA 1664										
Blank (EHE0224-BLK1)				Prepared & Analyzed: 05/10/19						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EHE0224-BS1)				Prepared & Analyzed: 05/10/19						
Oil & Grease (HEM)	44.1	5.00	mg/L	40.00		110	78-114			
Batch EHE0244 - General Prep - Wet Chem (Aq)										
Blank (EHE0244-BLK1)				Prepared & Analyzed: 05/10/19						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EHE0244-BS1)				Prepared & Analyzed: 05/10/19						
Total Phenolics	1.01	0.140	mg/L	1.000		101	80-120			
Matrix Spike (EHE0244-MS1)		**Source: E9E0091-01**		Prepared & Analyzed: 05/10/19						
Total Phenolics	0.976	0.140	mg/L	1.000	ND	98	80-120			
Matrix Spike Dup (EHE0244-MSD1)		**Source: E9E0091-01**		Prepared & Analyzed: 05/10/19						
Total Phenolics	0.951	0.140	mg/L	1.000	ND	95	80-120	3	20	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/10/19 15:21

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHE0248 - General Prep - Wet Chem (Aq)										
Blank (EHE0248-BLK1)				Prepared: 05/09/19 Analyzed: 05/10/19						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EHE0248-BS1)				Prepared: 05/09/19 Analyzed: 05/10/19						
Total Suspended Solids	806	25.0	mg/L	1000		81	80-120			
Duplicate (EHE0248-DUP1)		**Source: E9E0092-01**		Prepared: 05/09/19 Analyzed: 05/10/19						
Total Suspended Solids	1130	250	mg/L		1100			3	10	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/10/19 15:21

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2020
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2019
NELAP/ODEQ	NELAP Accredited (ODEQ)	2018-167	08/31/2019
TCEQ	Texas Accedited (TCEQ)	T104704498-19-9	03/31/2020

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/10/19 15:21

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

ronmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Keith Hopcus For Russell Britten, President

a9a0091

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

May 5, 2019

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 05032019 BM for total suspended solids, oil and grease, and total phenols.

4990091

CHAIN OF CUSTODY

RETURN THIS PAGE TO: **Black and Associates**
Environmental Consultants, Inc.
1908 W. Boyd
Norman, Oklahoma 73069-4830
(405)360-2852

Sample Number	Date Collected	Time Collected
05032019 BM	May 3, 2019	hours

Site I.D. (station)

Mixon Brothers Wood Preserving, Inc. Outfall 001

Sample Collector	Witness(es)
Bob Mixon	

Remarks:

Received on Ice (4°C) 0.0: 0.4 = -0.6 on Ice
Z1032318

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	J. J. Black	May 6, 2019	hrs. 751
	Disposition of Sample	**Signature**	
	ETI. for analysis	Stephanie Saul	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E9E0091

Environmental Testing, Inc.

Printed: 5/6/2019 9:17:15AM

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**MBWP Outfall 001**	**Project Number:**	**No Project**

Report To:	**Invoice To:**
Mixon Brothers Wood Preserving Inc.	Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon	Mr. Bob Mixon
P.O. Box 327	P.O. Box 327
Idabel, OK 74745	Idabel, OK 74745
Phone: (580) 286-9494	Phone: (580) 286-9494
Fax: n/a	Fax: n/a

Date Due:	05/13/19 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	05/06/19 07:51
Logged In By:	Andra Hoot	Date Logged In:	05/06/19 08:36

Samples Received at:		-0.6°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E9E0091-01 B	Amber H2SO4 - 500mL	<2	5.6.19 8:40	61554

Stephanie Saul — Preservation Confirmed By

5.6.19 — Date

Reviewed By

Date

wko_EOC_wpres_rev3.0.rpt

Laboratory Analytical Report

ENVIRONMENTAL
TESTING, INC.
4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

29 May 2019

Mr. Bob Mixon

Mixon Brothers Wood Preserving Inc.
P.O. Box 327
Idabel, OK 74745

WO: E9E0388
RE: MBWP Outfall 001

Enclosed are the results of analyses for samples received by the laboratory on 5/21/2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
President

Original (P)

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/29/19 12:12

05202019 BM

E9E0388-01 (Aqueous) - Sampled: 05/20/19 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers

Environmental Testing, Inc.

Conventional Chemistry Parameters by EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Oil & Grease (HEM)	<5.00	5.00	mg/L	1	EHE0513	FJM	05/23/19 09:00	EPA 1664A 1999	
Total Phenolics	<0.140	0.140	mg/L	1	EHE0496	ECF	05/22/19 15:25	EPA 420.1	

Conventional Chemistry Parameters by Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Total Suspended Solids	<12.5	12.5	mg/L	5	EHE0598	BLS	05/28/19 11:55	SM 2540 D-20th ED	

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/29/19 12:12

QUALITY CONTROL

Conventional Chemistry Parameters by EPA Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHE0496 - General Prep - Wet Chem (Aq)										
Blank (EHE0496-BLK1)				Prepared & Analyzed: 05/22/19						
Total Phenolics	<0.140	0.140	mg/L							
LCS (EHE0496-BS1)				Prepared & Analyzed: 05/22/19						
Total Phenolics	0.949	0.140	mg/L	1.000		95	80-120			
Matrix Spike (EHE0496-MS1)		Source: E9E0355-01		Prepared & Analyzed: 05/22/19						
Total Phenolics	2.35	0.140	mg/L	1.000	1.46	89	80-120			
Matrix Spike Dup (EHE0496-MSD1)		Source: E9E0355-01		Prepared & Analyzed: 05/22/19						
Total Phenolics	2.36	0.140	mg/L	1.000	1.46	90	80-120	0.3	20	
Batch EHE0513 - EPA 1664										
Blank (EHE0513-BLK1)				Prepared & Analyzed: 05/23/19						
Oil & Grease (HEM)	<5.00	5.00	mg/L							
LCS (EHE0513-BS1)				Prepared & Analyzed: 05/23/19						
Oil & Grease (HEM)	35.3	5.00	mg/L	40.00		88	78-114			

Environmental Testing, Inc.

Russell Britten, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E9E0355
Original

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/29/19 12:12

QUALITY CONTROL

Conventional Chemistry Parameters by Standard Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EHE0598 - General Prep - Wet Chem (Aq)										
Blank (EHE0598-BLK1)				Prepared: 05/24/19 Analyzed: 05/28/19						
Total Suspended Solids	<25.0	25.0	mg/L							
LCS (EHE0598-BS1)				Prepared: 05/24/19 Analyzed: 05/28/19						
Total Suspended Solids	893	25.0	mg/L	1000		89	80-120			
Duplicate (EHE0598-DUP1)		Source: E9E0389-01		Prepared: 05/24/19 Analyzed: 05/28/19						
Total Suspended Solids	660	83.3	mg/L		677			2	10	

ironmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	Reported:
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/29/19 12:12

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	01/31/2020
NELAP	NELAP Accredited (LDEQ)	10002	06/30/2019
NELAP/ODEQ	NELAP Accredited (ODEQ)	2018-167	08/31/2019
TCEQ	Texas Accedited (TCEQ)	T104704498-19-9	03/31/2020

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Mixon Brothers Wood Preserving Inc.	Project: MBWP Outfall 001	
P.O. Box 327	Project Number: No Project	**Reported:**
Idabel OK, 74745	Project Manager: Mr. Bob Mixon	05/29/19 12:12

Qualifiers and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
.r	Non-Certified analyte
NA	Not Applicable
HEM	Hexane Extractable Material

4940388

Black and Associates
Environmental Consultants, Inc.

1908 W. Boyd
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

May 21, 2019

To: Environmental Testing, Inc.

From: Jerry J. Black

RE: MBWP Outfall 001

Please send invoice and analysis results to: Mixon Brothers Wood Preserving, Inc., P.O. Box 327, Idabel Oklahoma, 74745. Also, please send a copy of results to J. J. Black.

Please analyze 05202019 BM for total suspended solids, oil and grease, and total phenols.

4940388

CHAIN OF CUSTODY		
RETURN THIS PAGE TO: **Black and Associates Environmental Consultants, Inc.** 1908 W. Boyd Norman, Oklahoma 73069-4830 (405)360-2852		
Sample Number 05202019 BM	**Date Collected** May 20, 2019	**Time Collected** hours
Site I.D. (station) Mixon Brothers Wood Preserving, Inc. Outfall 001		
Sample Collector Bob Mixon	**Witness(es)**	
Remarks: Received on Ice (4° C) 35-0.6=2.9 20000318 on ice		

I hereby certify that I received this sample and disposed of as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
	J. J. Black	May 21, 2019	16:08 hrs.
	Disposition of Sample ETI. for analysis	**Signature** Stephanie Saul	

I hereby certify that I received this sample and disposed of it as noted below:

RECEIPT OF SAMPLE	Received From	Dated Received	Time Rec'd
			hrs.
	Disposition of Sample	**Signature**	

ENVIRONMENTAL TESTING, INC.

SAMPLE RECEIPT FORM

E9E0388

Environmental Testing, Inc.

Client:	**Mixon Brothers Wood Preserving Inc.**	**Project Manager:**	**Mr. Bob Mixon**
Project:	**MBWP Outfall 001**	**Project Number:**	**No Project**

Report To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Invoice To:
Mixon Brothers Wood Preserving Inc.
Mr. Bob Mixon
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
Fax: n/a

Date Due:	05/29/19 17:00 (5 day TAT)		
Received By:	Stephanie Saul	Date Received:	05/21/19 16:08
Logged In By:	Andra Hoot	Date Logged In:	05/21/19 16:12

Samples Received at:		2.9°C			
Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	Yes	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #
E9E0388-01 B	Amber H2SO4 - 500mL	<2	5.21.19 16:20	E170903

Stephanie Saul
Preservation Confirmed By

5.21.19
Date

Reviewed By

Date

wko_EOC_wpres_rev3.0.rpt

Appendix J

Monthly Reports (2013 to 2022)

Black and Associates Environmental Consultants, Inc.

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 2-28-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: JANUARY 2013)

Dear Mr. Caves:

The Monthly Report for (Date: JANUARY 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: JANUARY 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

JANUARY 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
JANUARY 2013	13 gallons/13 days	252 gallons/21 days	33 gallons/13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 3-28-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: February 2013)

Dear Mr. Caves:

The Monthly Report for (Date: February 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

B.C. Mixon

Bob Mixon

Enclosures: Date February 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

February 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
February 2013	13gallons 13days	252gallons 21days	7gallons 13days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 4-29-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ): Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: MARCH 2013)

Dear Mr. Caves:

The Monthly Report for (Date: MARCH 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

B.C. Mixon

Bob Mixon

Enclosures: Date: MARCH 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

March 2013

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258FC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
March 2013	12 gallons 12 days	240 gallons 12 days	16 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 5-29-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: APRIL 2013)

Dear Mr. Caves:

The Monthly Report for (Date: APRIL 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: APRIL 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

APRIL 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
APRIL 2013	13 gallons 13 days	264 gallons 22 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 6-28-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: MAY 2013)

Dear Mr. Caves:

The Monthly Report for (Date: MAY 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: MAY 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

MAY 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
MAY 2013	14 gallons 14 days	288 gallons 24 days	35 gallons 14 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 7-9-13

Mr Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: June 2013)

Dear Mr. Caves:

The Monthly Report for (Date: June 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: June 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

June 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
June 2013	13gallons 13days	240gallons 20days	30gallons 12days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 8-29-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: July 2013)

Dear Mr. Caves:

The Monthly Report for (Date: July 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: July 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

July 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
July 2013	12gallons 12days	240gallons 12days	30gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 9-25-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: August 2013)

Dear Mr. Caves:

The Monthly Report for (Date: August 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: August 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

August 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
August 2013	13 gallons 13 days	264 gallons 22 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 10-25-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: September 2013)

Dear Mr. Caves:

The Monthly Report for (Date: September 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: September 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry I. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

September 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
September 2013	17gallons 17days	25.2gallons 21days	30gallons 12days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 11-25-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: October 2013)

Dear Mr. Caves:

The Monthly Report for (Date: October 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: October 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

October 2013

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
October 2013	13gallons 13days	276gallons 23days	33gallons 13days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 12-30-13

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re. Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: November 2013)

Dear Mr. Caves:

The Monthly Report for (Date: November 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: November 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

November 2013

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
November 2013	1[illegible] gallons 12 days	22 gallons 19 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 1-29-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: December 2013)

Dear Mr. Caves:

The Monthly Report for (Date: December 2013) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: December 2013 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

December 2013

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625BPC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
December 2013	14 gallons 14 days	2.58 gallons 24 days	3.5 gallons 14 days

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 2-27-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: January 2014)

Dear Mr. Caves:

The Monthly Report for (Date: January 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: January 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

January 2014

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
January 2014	17 gallons 12 days	252 gallons 21 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 3-28-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date February 2014)

Dear Mr. Caves:

The Monthly Report for (Date: February 2014 of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: February 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc Mr Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

February 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
February 2014	12 gallons 12 days	252 gallons 21 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 4-30-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re. Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: March 2014)

Dear Mr. Caves:

The Monthly Report for (Date: March 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date/March 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

March 2014

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
March 2014	13 gallons 13 days	252 gallons 24 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 5-30-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ) Post-Closure Operations Permit Number 0073362SBPC, Monthly Report for (Date: APRIL 2014)

Dear Mr. Caves:

The Monthly Report for (Date: APRIL 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: APRIL 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Terry L. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

APRIL 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362S8PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
APRIL 2014	13 gallons 13 days	276 gallons 23 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 6-30-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date. MAY 2014)

Dear Mr. Caves:

The Monthly Report for (Date: MAY 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: MAY 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

MAY 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336250PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
MAY 2014	12gal 12days	252gal 21days	30gal 12days

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

June 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336250PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
June 2014	13 gallons 13 days	240 gallons 20 days	33 gallons 12 days

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 8-27-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: July 2014)

Dear Mr. Caves:

The Monthly Report for (Date: July 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: July 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Terry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

July 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
July 2014	12gallons 12days	264gallons 22days	30gallons 12days

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 9-30-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: AUGUST 2014)

Dear Mr. Caves:

The Monthly Report for (Date: AUGUST 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: August 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

AUGUST 2014

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362538PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
AUGUST 2014	12 gallons 12 days	240 gallons 20 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 10-31-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: September 2014)

Dear Mr. Caves:

The Monthly Report for (Date: September 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: September 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

September 2014

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007386258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
September 2014	13gallons 13days	264gallons 22days	33gallons 13days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 11-29-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: October 2014)

Dear Mr. Caves:

The Monthly Report for (Date October 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: October 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry I. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

October 2014

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362558PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
October 2014	14 gallons 14 days	276 gallons 23 days	35 gallons 14 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 12-29-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date November 2014)

Dear Mr. Caves:

The Monthly Report for (Date November 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: November 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

November 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
November 2014	11gallons 11days	216gallons 18days	28gallons 11days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 1-29-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: December 2014)

Dear Mr. Caves:

The Monthly Report for (Date: December 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date December 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

December 2014

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
December 2014	13 gallons 13 days	247 gallons 21 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 2-27-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit
Number 007336258PC, Monthly Report for (Date January 2015)

Dear Mr. Caves:

The Monthly Report for (Date January 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: January 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

January 2015

RE: Oklahoma Deparment of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
January 2015	11 gallons 11 days	228 gallons 19 days	28 gallons 11 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 3-27-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: February 2015)

Dear Mr. Caves:

The Monthly Report for (Date: February 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: February 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

February 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362588PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
February 2015	12 gallons 12 days	240 gallons 20 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 4-29-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: March 2015)

Dear Mr. Caves:

The Monthly Report for (Date: March 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: March 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

March 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362568PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
March 2015	13 gallons 13 days	259 gallons 22 days	33 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 5-29-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: APRIL 2015)

Dear Mr. Caves:

The Monthly Report for (Date APRIL 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: APRIL 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

APRIL 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625BPC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
APRIL 2015	13 gallons 13 days	264 gallons 22 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 6-30-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: MAY 2015)

Dear Mr. Caves:

The Monthly Report for (Date: MAY 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: MAY 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry I. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

MAY 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362558PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
MAY 2015	12 gallons / 12 days	240 gallons 20 days	30 gallons / 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 7-30-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: June 2015)

Dear Mr. Caves:

The Monthly Report for (Date: June 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: June 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

June 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362588PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
June 2015	14 gallons 14 days	276 gallons 23 days	35 gallons 14 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 8-28-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: July 2015)

Dear Mr. Caves:

The Monthly Report for (Date: July 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: July 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

July 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
July 2015	12 gallons 12 days	252 gallons 31 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 9-25-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ) Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: AUGUST 2015)

Dear Mr. Caves:

The Monthly Report for (Date: August 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: August 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

AUGUST 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073562558PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
AUGUST 2015	13 gallons / 13 days	25.2 gallons / 21 days	33 gallons / 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 10-30-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625BPC, Monthly Report for (Date September 2015)

Dear Mr. Caves:

The Monthly Report for (Date September 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: September 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

September 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362SSPC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
September 2015	12gallons 12days	252gallons 21days	30gallons 12days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 11-30-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit
Number 007336258PC, Monthly Report for (Date: October 2015)

Dear Mr. Caves:

The Monthly Report for (Date: October 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date October 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 7-29-14

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ) Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: June 2014)

Dear Mr. Caves:

The Monthly Report for (Date: June 2014) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: June 2014 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

October 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073356258PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
October 2015	12 gallons 12 days	252 gallons 21 days	30 gallons 12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 12-29-15

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date November 2015)

Dear Mr. Caves:

The Monthly Report for (Date November 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date November 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

NOVEMBER 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007386263PC

Month Year	Groud Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
November 2015	13 gallons 13 days	264 gallons 22 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 1-20-2016

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: December 2015)

Dear Mr. Caves:

The Monthly Report for (Date: December 2015) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: December 2015 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

December 2015

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733562506PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
December 2015	12 gallons 12 days	242 gallons 21 days	25 gallons 10 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 2-29-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625SPC, Monthly Report for (Date: January 2016)

Dear Mr. Caves:

The Monthly Report for (Date January 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date January 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

JANUARY 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007386258PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
JANUARY 2016	12gallons/12days	240gallons/20days	30gallons/12days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 3-24-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: February 2016)

Dear Mr. Caves:

The Monthly Report for (Date: February 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: February 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry I. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

February 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit
Number 0073862582PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
February 2016	12 gallons/12 days	240 gallons/20 days	30 gallons/12 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 4-30-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625SPC, Monthly Report for (Date: MARCH 2016)

Dear Mr. Caves:

The Monthly Report for (Date: MARCH 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: MARCH 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

MARCh 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0173862558PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
MARCh 2016	14 gallons 14 days	776 gallons 23 days	35 gallons 14 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 5-31-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: APRIL 2016)

Dear Mr. Caves:

The Monthly Report for (Date APRIL 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Enclosures: Date: APRIL 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

APRIL 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073S6253PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
APRIL 2016	13 gallons 13 days	752 gallons 21 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 6-30-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625SPC, Monthly Report for (Date: MAY 2016)

Dear Mr. Caves:

The Monthly Report for (Date: MAY 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: MAY 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

MAY 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 01738[illegible]PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
MAY 2016	17gallons 17days	228gallons 19days	33gallons 13days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 7-14-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ) Post-Closure Operations Permit Number 0073362588PC, Monthly Report for (Date: June 2016)

Dear Mr. Caves:

The Monthly Report for (Date: June 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: June 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

June 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00738[illegible]PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
June 2016	13 gallons 13 days	252 gallons 24 days	33 gallons 13 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 8-31-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: July 2016)

Dear Mr. Caves:

The Monthly Report for (Date July 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: July 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

JULY 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 01738[illegible]PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
JULY 2016	12gallons 12days	223gallons 19days	30gallons 12days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 9-21-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625SPC, Monthly Report for (Date: August 2016)

Dear Mr. Caves:

The Monthly Report for (Date: August 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: August 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry L Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

AUGUST 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0079[illegible]PC

Month Year	Ground Water Removal and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
AUGUST 2016	14 gallons 14 days	276 gallons 23 days	35 gallons 14 days

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, Oklahoma 74745
(580)286-9494

Date: 10-31-16

Mr. Scott Thompson, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362580PC, Monthly Report for (Date: September 2016)

Dear Mr. Caves:

The Monthly Report for (Date: September 2016) of groundwater removed from monitor wells PZ-4, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: Date: September 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-6, and PZ-7 and Placement of Water

cc: Mr. Jerry J. Black

Mixon Brothers Wood Preserving, Inc.

Monthly Report For

September 2016

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit
Number 01798[illegible]PC

Month Year	Ground Water Removed and Recycled in the Process System		
	PZ-4 (gallons/ removal days)	PZ-6 (gallons/ removal days)	PZ-7 (gallons/ removal days)
September 2016	12 gallons/12 days	240 gallons 20 days	30 gallons 20 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 11-30-16

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: October 2016)

Dear Ms. Dixon:

The Monthly Report for (Date: October 2016) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: October 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

October 2016

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
October 2016	PZ-4	PZ-5	PZ-6	PZ-7
	13 gal. 13 days	40 gal. 10 days	252 gal. 21 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 12-29-16

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: November 2016

Dear Ms. Dixon:

The Monthly Report for (Date: November 2016) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: November 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

November 2016

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
November 2016	12 gal. 13 days	51 gal. 13 days	264 gal. 22 days	20 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 1-31-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: December 2016

Dear Ms. Dixon:

The Monthly Report for (Date: Dec. 2016) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: Dec 2016 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For
December 2016

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
December 2016	12 gal. 12 days	36 gal. 9 days	240 gal. 20 days	12 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 2-28-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: January 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: January 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: January 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

January 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
January 2017	12 gal. 12 days	~~252~~ gal. ~~21~~ days	~~30~~ gal. ~~12~~ days	~~36~~ gal. ~~9~~ days
		36gal 9day	252gal 21day	30gal 12day

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Date: 3-31-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: February 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: February 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: February 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For
February 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
February 2017	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 4-28-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: MARCH 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: March 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: March 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

March

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
March 2017	PZ-4	PZ-5	PZ-6	PZ-7
	12 gal. 13 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 5-31-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: APRIL 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: APRIL 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: APRIL 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For
APRIL 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
APRIL 2017	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 6-28-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: MAY 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: MAY 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: MAY 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

MAY 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
MAY 2017	PZ-4	PZ-5	PZ-6	PZ-7
	13 gal. 13 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 7-31-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: June 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: June 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: June 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

June 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
June 2017	13 gal. 13 days	36 gal. 9 days	252 gal. 21 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 8-29-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: July 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: July 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: July 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

July 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
July 2017	12 gal. 12 days	28 gal. 7 days	228 gal. 19 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 9-28-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: AUGUST 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: AUGUST 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: AUGUST 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948
Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

AUGUST 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
AUGUST 2017	**PZ-4**	**PZ-5**	**PZ-6**	**PZ-7**
	11 gal. 11 days	32 gal. 8 days	264 gal. 22 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 10-30-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: September 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: Sept. 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: Sept. 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

September 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
September 2017	11 gal. 11 days	36 gal. 9 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 11-30-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: October 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: October 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date October 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

October 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
	PZ-4	**PZ-5**	**PZ-6**	**PZ-7**
October 2017	12 gal. 12 days	36 gal. 9 days	264 gal. 22 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Date: 12-28-17

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: November 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: November 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: November 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 827-9494
Fax: (580) 286-3356

Monthly Report For

November 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
November 2017	12 gal. 12 days	28 gal. 7 days	240 gal. 20 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 1-29-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: December 2017)

Dear Ms. Dixon:

The Monthly Report for (Date: December 2017) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: December 2017 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

December 2017

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
December 2017	10 gal. 10 days	32 gal. 8 days	192 gal. 16 days	25 gal. 10 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Date: 2-28-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: January 2018)

Dear Ms. Dixon:

The Monthly Report for (Date: January 2018) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: January 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Monthly Report For

JANUARY 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
JANUARY 2018	13 gal. 13 days	32 gal. 8 days	252 gal. 21 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 3-31-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, Monthly Report for (Date: February 2018)

Dear Ms. Dixon:

The Monthly Report for (Date: February 2018) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions or comments, please call me. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosure: Date: February 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

February 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
February 2018	PZ-4	PZ-5	PZ-6	PZ-7
	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 4-26-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for MARCH 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for MARCH 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: MARCH 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Monthly Report For

MARCH 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
March 2018	PZ-4	PZ-5	PZ-6	PZ-7
	13 gal. 13 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 5-22-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for APRIL 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for APRIL 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: APRIL 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For
APRIL 2018

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
APRIL 2018	12 gal. 12 days	32 gal. 8 days	276 gal. 23 days	35 gal. 14 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 6-28-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for MAY 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for MAY 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: MAY 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

MAY 2018

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
MAY 2018	12 gal. 12 days	36 gal. 9 days	264 gal. 22 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 7-31-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for June 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for June 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: June 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

June 2018

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System** (gallons/removal days)			
	PZ-4	**PZ-5**	**PZ-6**	**PZ-7**
June 2018	13 gal. 13 days	36 gal. 9 days	252 gal. 21 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 8-31-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for July 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for July 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: July 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

July 2018

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
July 2018	13 gal. 13 days	32 gal. 8 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 9-28-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for AUGUST 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for AUGUST 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: AUGUST 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

August 2018

RE: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
August 2018	14 gal. 14 days	36 gal. 9 days	276 gal. 23 days	35 gal. 14 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 10-31-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for September 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for September 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: September 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible]

Mixon Brothers Wood Preserving, Inc.

[illegible]

Monthly Report For

September 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
September 2018	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 11-30-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for October 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for October 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: October 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box [illegible]
[illegible], OK [illegible]
Phone [illegible]
[illegible]
Fax [illegible]

Monthly Report For

October 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
October 2018	14 gal. 14 days	36 gal. 9 days	276 gal. 23 days	38 gal. 14 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 12-27-18

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for November 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for November 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: November 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box [illegible]
[illegible], OK [illegible]
Phone (5[illegible]) [illegible]
(800) [illegible]
Fax ([illegible]) [illegible]-3356

Monthly Report For

NOVEMBER 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
November 2018	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327

Idabel, OK 74745

Phone: (580) 286-9494

(800) 887-9494

Fax: (580) 286-3356

Date: 1-31-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations, Permit Number 007336258PC, monthly report for December 2018 (Date)

Dear Ms. Dixon:

The Monthly Report for December 2018 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date December 2018 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 837-9494
Fax: (580) 286-3356

Monthly Report For
December 2018

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
December 2018	PZ-4	PZ-5	PZ-6	PZ-7
	11 gal. 11 days	28 gal. 7 days	21.6 gal. 18 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 2-28-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for January 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for January 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: January 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box [illegible]
[illegible], OK 74745
Phone: [illegible]
[illegible]
Fax: [illegible]

Monthly Report For

JANUARY 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
JANUARY 2019	12 gal. 12 days	32 gal. 8 days	264 gal. 22 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Date: 3-28-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for February 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for February 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: February 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Monthly Report For

February 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
February 2019	12 gal. 12 days	32 gal. 8 days	252 gal. 21 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 4-29-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for March 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for MArch 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: March 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 287-9494
Fax: (580) 286-3356

Monthly Report For

March 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
March 2019	PZ-4	PZ-5	PZ-6	PZ-7
	13 gal. 13 days	36 gal. 9 days	252 gal. 21 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 5-31-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for APRIL 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for APRIL 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: APRIL 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327

Idabel, OK 74745

Phone (580) 286-9494

(800) 357-9494

Fax (580) 286-3356

Monthly Report For

APRIL 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
APRIL 2019	12 gal. 12 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 6-25-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for MAY 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for MAY 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: MAY 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone (580) [illegible]
(800) [illegible]
Fax (580) [illegible]

Monthly Report For

MAY 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
MAY 2019	12 gal. 13 days	32 gal. 8 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 7-19-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for June 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for June 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: June 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
([illegible]) [illegible]
Fax: (580) 286-3556

Monthly Report For
June 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
June 2019	11 gal. 11 days	36 gal. 9 days	228 gal. 19 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 7-19-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for June 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for June 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: June 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box [illegible]
[illegible]
Phone: [illegible]
[illegible]
Fax: [illegible]

Monthly Report For

June 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
June 2019	11 gal. 11 days	36 gal. 9 days	228 gal. 19 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 8-28-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for JULY 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for JULY 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: JULY 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since [illegible]

Mixon Brothers Wood Preserving, Inc.
P.O. Box [illegible]
[illegible], OK [illegible]
Phone [illegible]
[illegible]
Fax [illegible]

Monthly Report For

July 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
July 2019	13 gal. 13 days	32 gal. 8 days	252 gal. 21 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 9-25-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for AUGUST 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for AUGUST 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: AUGUST 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Monthly Report For

AUGUST 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System (gallons/removal days)**			
AUGUST 2019	**PZ-4**	**PZ-5**	**PZ-6**	**PZ-7**
	13 gal. 13 days	28 gal. 7 days	264 gal. 22 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 10-30-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for September 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for September 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: September 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For

September 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
September 2019	12 gal. 13 days	36 gal. 9 days	235 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 11-30-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for October 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for October 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: October 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Monthly Report For

October 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
October 2019	12 gal. 13 days	36 gal. 9 days	276 gal. 23 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 12-30-19

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for November 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for November 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: November 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Monthly Report For

November 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362S8PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
November 2019	12 gal. 12 days	32 gal. 8 days	228 gal. 19 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 1-29-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for December 2019 (Date)

Dear Ms. Dixon:

The Monthly Report for December 2019 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: December 2019 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For

December 2019

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
December 2019	11 gal. 11 days	32 gal. 8 days	223 gal. 19 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 2-26-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for JANUARY 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for JANUARY 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date JANUARY 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mingo Brothers Wood Preserving, Inc.

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Monthly Report For

JANUARY 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
January 2020	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax (580) 286-3356

Date: 3-23-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for February 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for February 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Enc.: Date: February 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mixon Brothers Wood Preserving, Inc.

[illegible]

Monthly Report For

February 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362558PC

Month Year	Groundwater Removal and Recycled into the Process System (gallon/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
February 2020	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 4-24-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for March 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for March 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Enc.: Date: March 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Brothers Wood Preserving, Inc.

Monthly Report For

March 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
March 2020	PZ-4	PZ-5	PZ-6	PZ-7
	12 gal. 12 days	36 gal. 9 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 5-28-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for APRIL 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for APRIL 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: APRIL 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For
APRIL 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625SPC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
APRIL 2020	12 gal. 12 days	32 gal. 8 days	264 gal. 22 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 6-26-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for MAY 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for MAY 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: MAY 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mings Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For

MAY 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362358PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
MAY 2020	12 gal. 13 days	32 gal. 8 days	252 gal. 21 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 7-30-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for June 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for June 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: June 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Wood Preserving, Inc.

[illegible]

Monthly Report For

June 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073382[illegible]PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
June 2020	12 gal. 13 days	36 gal. 9 days	264 gal. 22 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 8-26-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for July 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for July 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: July 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For

July 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number [illegible]PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
July 2020	14 gal. 14 days	32 gal. 8 days	276 gal. 23 days	35 gal. 14 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 9-28-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for AUGUST 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for AUGUST 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: AUGUST 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Wood Preserving, Inc.
[illegible]

Monthly Report For

AUGUST 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733625OPC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
August 2020	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 10-28-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for September 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for September 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: September 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Mingo Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For

September 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00733[illegible]PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
Sept 2020	12 gal. 12 days	36 gal. 9 days	252 gal. 21 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 11-24-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for October 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for October 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: October 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Wood Preserving, Inc.

[illegible]

Monthly Report For

October 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 00730[illegible]PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
October 2020	13 gal. 13 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 12-30-20

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for ~~December~~ 2020 (Date)
november

Dear Ms. Dixon:

The Monthly Report for ~~December~~ 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.
november

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: ~~December~~ 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.
november

[illegible] Wood Preserving, Inc.
[illegible]

Monthly Report For

November 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number [illegible]PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
November 2020	12 gal. 12 days	78 gal. 7 days	228 gal. 19 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 1-27-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for December 2020 (Date)

Dear Ms. Dixon:

The Monthly Report for December 2020 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enc.: Date: December 2020 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Brothers Wood Preserving, Inc.
[illegible]

Monthly Report For

December 2020

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073[illegible]PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
December [illegible]	10 gal. 10 days	32 gal. 8 days	204 gal. 12 days	30 gal. [illegible] days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 2-23-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for JANUARY 2021 (Date)

Dear Ms. Dixon:

The Monthly Report for JANUARY 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Enc.: Date: JANUARY 2021 Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

[illegible] Brothers Wood Preserving, Inc.

[illegible]

Monthly Report For

JANUARY 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 0073362[illegible]C

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
JANUARY 2021	12 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 3-31-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for February 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for February 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: February 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

February 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
	20 gal. 8 days	20 gal. 5 days	65 gal. 13 days	20 gal. 8 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 4-29-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for MARCH 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for MARCH 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: March 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

MARCH 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
MARCH 2021	28 gal. 11 days	32 gal. 8 days	252 gal. 21 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 5-27-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for APRIL 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for APRIL 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: APRIL 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

APRIL 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
APRIL 2021	33 gal. 13 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 6-22-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for MAY 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for MAY 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: MAY 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

MAY 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System (gallons/removal days)**			
MAY 2021	**PZ-4**	**PZ-5**	**PZ-6**	**PZ-7**
	30 gal. 12 days	32 gal. 8 days	240 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 7-27-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for June 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for June 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: June 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

June 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
June 2021	32 gal. 13 days	36 gal. 9 days	276 gal. 23 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 8-30-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for July 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for July 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: July 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK. 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

July 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
July 2021	33 gal. 13 days	32 gal. 13 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 9-29-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for AUGUST 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for AUGUST 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: AUGUST 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

AUGUST 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
AUGUST 2021	33 gal. 13 days	36 gal. 9 days	264 gal. 22 days	33 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 10-30-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for September 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for September 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: September 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

September 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System (gallons/removal days)**			
	PZ-4	**PZ-5**	**PZ-6**	**PZ-7**
September 2021	3[illegible] gal. 13 days	32 gal. 8 days	276 gal. 23 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 11-24-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for October 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for October 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: October 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

October 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
October 2021	32 gal. 13 days	36 gal. 9 days	252 gal. 21 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 12-20-21

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for November 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for November 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: November 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

November 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
November 2021	28 gal. 11 days	32 gal. 8 days	216 gal. 18 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 1-31-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for December 2021 (DATE)

Dear Ms. Dixon:

The Monthly Report for December 2021 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: December 2021 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

December 2021

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
December 2021	30 gal. 12 days	28 gal. 2 days	228 gal. 19 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 2-21-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC, monthly report for JANUARY 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for JANUARY 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: JANUARY 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

JANUARY 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System (gallons/removal days)**			
	PZ-4	**PZ-5**	**PZ-6**	**PZ-7**
JANUARY 2022	30 gal. 12 days	32 gal. 8 days	252 gal. 21 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 3-30-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for February 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for February 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: February 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK. 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

February 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System (gallons/removal days)**			
February 2022	**PZ-4**	**PZ-5**	**PZ-6**	**PZ-7**
	30 gal. 12 days	32 gal. 8 days	216 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Date: 4-21-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for MARCH 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for MARCH 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: MARCH 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494
(800) 887-9494
Fax: (580) 286-3356

Monthly Report For

March 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
March 2022	13 gal. 13 days	36 gal. 9 days	252 gal. 23 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 5-23-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ) Post-Closure Operations Permit Number 007336258PC, monthly report for APRIL 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for APRIL 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: APRIL 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

APRIL 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
APRIL 2022	13 gal. 13 days	36 gal. 9 days	222 gal. 21 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 6-27-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for MAY 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for MAY 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: MAY 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

MAY 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
MAY 2022	12 gal. 12 days	32 gal. 8 days	216 gal. 20 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 7-27-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for June 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for June 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: June 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

June 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
June 2022	13 gal. 13 days	32 gal. 8 days	240 gal. 22 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 8-29-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for JULY 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for JULY 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: JULY 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK. 74745
Phone: (580) 286-9494

Monthly Report For

July 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	**Groundwater Removal and Recycled into the Process System (gallons/removal days)**			
	PZ-4	**PZ-5**	**PZ-6**	**PZ-7**
July 2022	11 gal. 11 days	32 gal. 8 days	192 gal. 18 days	27 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 9-29-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for AUGUST 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for AUGUST 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: AUGUST 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK. 74745
Phone: (580) 286-9494

Monthly Report For

AUGUST 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
AUGUST 2022	14 gal. 14 days	36 gal. 9 days	252 gal. 23 days	35 gal. 14 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 10-20-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for September 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for September 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: September 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

September 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
	PZ-4	PZ-5	PZ-6	PZ-7
September 2022	11 gal. 11 days	32 gal. 8 days	204 gal. 19 days	28 gal. 11 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 11-29-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for October 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for October 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: October 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

October 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
October 2022	PZ-4	PZ-5	PZ-6	PZ-7
	13 gal. 13 days	32 gal. 8 days	228 gal. 21 days	32 gal. 13 days

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 12-28-22

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations, Permit Number 007336258PC, monthly report for November 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for November 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: November 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

November 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
November	PZ-4	PZ-5	PZ-6	PZ-7
2022	12 gal. 12 days	32 gal. 8 days	210 gal. 19 days	30 gal. 12 days

Since 1948

Mixon Brothers Wood Preserving, Inc.
P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Date: 1-25-23

Ms. Kelly Dixon, Division Director
Land Protection Division
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations Permit Number 007336258PC, monthly report for December 2022 (DATE)

Dear Ms. Dixon:

The Monthly Report for December 2022 (Date) of the groundwater removed from monitor wells PZ-4, PZ-5, PZ-6, and PZ-7 and recycled in the process system is attached.

If you have any questions, or comments, please call me at (580) 286-9494. Thank you for your assistance.

Sincerely,

Bob Mixon

Bob Mixon

Enclosures: December 2022 (Date) Monthly Report of Groundwater Removal from PZ-4, PZ-5, PZ-6, and PZ-7.

Since 1948

Mixon Brothers Wood Preserving, Inc.

P.O. Box 327
Idabel, OK 74745
Phone: (580) 286-9494

Monthly Report For

December 2022

Re: Oklahoma Department of Environmental Quality (DEQ), Post-Closure Operations
Permit Number 007336258PC

Month Year	Groundwater Removal and Recycled into the Process System (gallons/removal days)			
December	PZ-4	PZ-5	PZ-6	PZ-7
2022	10 gal. 10 days	28 gal. 7 days	210 gal. 19 days	25 gal. 10 days

Appendix K

Jerry J. Black's qualifications

Black and Associates
Environmental Consultants, Inc.
1908 W. Boyd Street
Norman, Oklahoma 73069-4830
Telefax (405)360-2880
(405)360-2852

Jerry J. Black, President
Registered and Court Qualified
Environmental Professional

K. C. Yiin, Vice President
Registered Professional
Engineer

Jerry J. Black

Position:

Principal Consultant and President of the Company

Education:

Master of Environmental Sciences, College of Engineering, University of Oklahoma, 1988.
Bachelor of Sciences, Zoology, University of Oklahoma, 1979.

Years of Experience:

Research:	47
Environmental:	46
Hydrology:	43

Areas of Expertise:

Underground Storage Tanks (UST)
Spill Assessment and Remediation
Waste Disposal - Hazardous and Non-hazardous
Design and Implementation of Environmental Monitoring and Remediation Plans
Environmental Diagnostic and Feasibility Studies
Expert Testimony (State and Federal court)
Regulatory Compliance Assistance (Municipal, County, State, and Federal level)
Environmental Record Search and Interpretation
Grant Proposal Formulation (State and Federal)
Ground and Surface Water (including Stormwater Pollution Prevention Plans)
Oil/Gas Pollution and Abatement
Aquatic Toxicity
Toxicity Identification
Quality Assurance and Control
Mining Pollution and Abatement
Timber/Wood Products Industry Pollution and Abatement
Wetland Delineation
Safety and Safety Training

Employment History:

Black and Associates Environmental Consultants, Inc. - 1985 to present

Principal Consultant and President of the company.

Principal Duties:

A. Plan, direct, implement and interpret the following:
   1. field assay studies of ground and surface waters, soil, hazardous wastes and air;
   2. mitigation procedures to the contaminants;
   3. diagnostic and feasibility studies;
   4. environmental records search;
   5. industrial operational procedures including safety procedures as required by State and Federal environmental regulations and requirements as well as providing regulatory compliance assistance in the disposal of non-hazardous and hazardous waste; and
   6. scientific research based on improving scientific methodology for sample, collection, mitigation procedures, and improving detection of contaminants in water, soil, and air.

B. Collect, interpret, analyze, and correlate
   1. chemical data obtained from material samples to determine the impact of contaminants on the environment under investigation as well as chemical data comparison ; and
   2. biological data obtained from environmental studies to determine the impact of contaminates..

C. Inspect, review and train laboratory/field quality assurance/control plans.

D. Provide expert testimony based on scientific data during depositions and court proceedings.

University of Oklahoma, College of Engineering, Department of Civil Engineering and Environmental Science - 1989 to 2001

Guest Lecturer and Instructor of Graduate Level Courses.

Oklahoma Wildlife Federation - 1986 to 2001

Environmental Technical Advisor

Oklahoma Water Resources Board - 1980 to 1989

Employed in the Water Quality Division/Research and Standards Section, Oklahoma Water Resources Board (OWRB), P.O. Box 53585, Oklahoma City, Oklahoma, 73105; from October 1984 to September 1989; and from January 1980 to October 1984 in OWRB Water Quality Division/Enforcement Section.

Job Titles:

Senior Hydrologist - May 1988
Senior Environmental Specialist - October 1982
Environmental Specialist II - July 1981
Water Quality Specialist II - January 1981
Water Quality Specialist I - June 1980
Limnologist I - January 1980

Responsibilities:

October 1984 - September 1989. Developed, designed and implemented work plans for experimental aquatic studies. Interpreted results of laboratory reports to optimize usefulness of data and samples collected. Developed detailed sampling and analytic procedures. Developed and performed quality assurance plans specific to sampling, analytical procedures and laboratory reports. Made on site field decisions concerning time management and uses of resources according to circumstances encountered. Prepared required project report; to insure that grant criteria are satisfied. Translated technical results into management alternatives. Investigated and provided expert testimony in enforcement and litigation activities. Acted as liaison in the transfer of technical information between OWRB and outside environmental professionals. Coordinated activities within OWRB and with outside agencies conducting related field studies. Project manager for: (1) laboratory certification program; (2) intensive stream surveys (over 250 streams); (3) toxicity studies; (4)Tar Creek/Picher Mine Field Superfund Site; (5) Special Enforcement Investigations; (6) Oklahoma Water Quality Standards for 1985; and (7) Grand Lake project (Clean Lake study, phase I).

January 1980 - October 1984. Enforcement Section, investigations of Oklahoma water pollution complaints and incidents; Oklahoma industrial inspections for compliance with State and Federal laws and regulations; commercial and industrial laboratory inspections, limnological studies; spill/fish kill investigations; enforcement of State laws within the OWRB jurisdiction; and OWRB Spill, National Pollutant Discharge Elimination System (NPDES) (federal discharge program) and the State inspection coordinator/trainer.

University of Oklahoma, Department of Zoology - 1976 to 1979

Research Associate, 1978 - 1979. Developed and managed research projects sponsored by the University of Oklahoma and the National Academy of Science. Subject: Effects of various injected hormones and chemicals on thermal selection by amphibians in a water gradient. Supervisor: Dr. V. H. Hutchinson.

Research Lab Technician - 1976 to 1977. Lab research on blood chemistry of amphibians and reptiles in relation to water/air environment; Critical Thermal Maxima research in a water environment on aquatic reptiles and amphibians; Lactic acid and glycogen studies; O_2 consumption by aquatic reptiles and amphibians in the water environment; ventilation and gas exchange in the Diamondback Water Snake, Natrix rhombifera; and, ventilatory response of amphibians and aquatic reptiles to hypoxia, hypercapnia and increased O_2. Supervisor: Dr. V. H. Hutchinson.

U.S. Air Force - 1971 to 1975

Vietnam Veteran, last stationed at Tinker AFB, Oklahoma, with the 3rd Mobile Communications Group as the Security NCO.

Continuing Education:

Oklahoma Ground Water Association, Technical Division Conference and Seminars, Stillwater, Oklahoma - January 2023.

Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2020.

Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2019.

Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2018.

Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2017.

Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2016.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2015.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2014.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - January 2013.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - February 2012.
Oklahoma Water Resources Research Institute, Oklahoma Water Research Symposium, Norman, Oklahoma - October 2011
University of Oklahoma, Post Disaster Response, Norman, Oklahoma - May 2011
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Norman, Oklahoma - February 2011.
Oklahoma Water Resources Research Institute, Oklahoma Water Research Symposium, Norman, Oklahoma - October 2010
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - February 2010.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - February 2009.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - February 2008.
U.S. Army Corps of Engineering Stream and Riparian Corridor Restoration Workshop, Tulsa, Oklahoma - April 2008
U.S. EPA Stormwater Program's Webcast Series, Best Management Practices Performance, February 2008.
U.S. EPA Environmental Technology Verification and Small Business Innovation Research Programs Workshop, Dallas, Texas - May 2007
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - February 2007.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - February 2006.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - March 2005.
Estimating Times of Remediation Associated with Monitored Natural Attenuation and Contaminant Source Removal, National Ground Water Association, March 2004.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - March 2004.
Oklahoma Ground Water Association, Technical Division Conference and Seminars, Oklahoma City, Oklahoma - March 2003.
12th Annual Quality Assurance Conference and Seminars, Dallas, TX - September 2002.
Well Driller Seminar, OWRB, Oklahoma City, Oklahoma - December 2001.
Open Diver Certification, PADI, Fort Lauderdale, FL - September 2001.
Air Monitoring for Hazardous Materials, Austin, TX - June 2000.
Abiotic In-Situ Technologies for Groundwater Remediation Conference, Dallas, TX - September 1999.
Seminar and Workshop "Pay for Performance", Okla. City, Oklahoma - May 1999.
8th Annual Quality Assurance Conference and Seminars, Dallas, TX - September 1998.
7th Annual Quality Assurance Conference and Seminars, Dallas, TX - September 1997.
Symposium on Natural Attenuation of Chlorinated Organics in Ground Water, Dallas, TX - September 1996.
Air and Water Quality Assurance/Quality Control (QA/QC) Measurement Conference, Dallas, TX - September 1996.
Seminar on Construction Quality Assurance/Construction Quality Control (CQA/CQC) for Waste Containment Facilities and Hydrologic Evaluation of Landfill Performance (HELP) Model, Dallas, TX - July 1994.

Seminar on Characterizing and Remediating Dense Nonaqueous Phase Liquids at Hazardous Sites, Dallas, TX - June 1993.

The Seventh National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring, and Geophysical Methods, Las Vegas, Nevada - May 1993.

Symposium on Bioremediation of Hazardous Wastes: Research, Development, and Field Evaluations, Dallas, TX - May 1993.

Computer-Aided Management of Emergency Operations Workshop, Chicago, IL - January 1993.

National Technology Initiative: Environmental Technology Workshop, Las Vegas, NV - September 1992.

NPDES Permit Application Workshop for Storm Water Discharges associated with Industrial Activity, Dallas, TX - August 1992.

Seminar Series on the Use of Treatability Guidelines In Site Remediation, Dallas, Texas - July 1992.

Statistical Analysis of Ground-water Monitoring Data, Dallas, TX - June 1992.

Seminar on Design, Operation and Closure of Municipal Solid Waste Landfills, Dallas, TX - May 1992.

The Sixth National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring, and Geophysical Methods, Las Vegas, Nevada - May 1992.

Seminar on Design and Construction of RCRA/CERCLA Final Covers, Dallas, TX - August 1991.

The Fifth National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring, and Geophysical Methods, Las Vegas, Nevada - May 1991.

Seminar on Wastewater Treatment Plant Toxicity Evaluation, Reduction and Control, Dallas, TX - March 1990.

Seminar on Site Characterization for Subsurface Remediations, Seattle, Washington - February 1990.

Toxicity Reduction Evaluation Workshop for State and Federal Regulatory Programs, Dallas, TX - February 1989.

Toxicity Reduction Evaluation Workshop for Consultants, Laboratories, and NPDES Dischargers, Dallas, TX - February 1989.

Modeling Groundwater and Pollution, Okla. City/OSU - Spring 1984.

Practical Approaches to Groundwater Hydrology, Okla City/OSU - July 1983.

Personnel Protection and Safety, Okla. City/EPA - February 1983.

Hydrogeology, Oklahoma City/OSU - January 1983.

NPDES Compliance Monitoring Inspector Training Session, Dallas/EPA - May 1982.

Incident Mitigation and Treatment Methods, Cinn./EPA - June 1981.

Publications:

Cates, D.A., R. C. Knox, D.A. Sabatini, and J. J. Black. 1992. "Evaluation of soil parameters and ion exchange on hydrochemical patterns," Oklahoma Academy of Science, 81st Annual Technical Meeting, November 12 and 13, 1992.

Black, J. J. 1992. Survey of various metals detected in oilfield wastes and petroleum reservoir brine. Oklahoma Academy of Science, 81st Annual Technical Meeting, November 12 and 13, 1992.

Knox, R. C., B. Vieux, and J. J. Black. 1992. "Relaxation Modeling and Spatial Moment Analyses for Tracking Subsurface Hydrocarbon Plume Movement," 3rd International Conference on Ground Water Quality Research: Subsurface Restoration Conference, Dallas, TX, June 21-24, 1992.

Atalay, A., S. Chaluvadi, J. G. Laguros, and J. J. Black. 1992. Treatment of Acid Mine Drainage Water using Fly Ash and Water Softening Sludge. Materials Research Society Proceedings.

Vieux, B.E., R. C. Knox, N. Gaur, and J. J. Black. 1992. "Spatial Distribution of Chlorides in Drinking Water Wells in the Central Oklahoma Aquifer," Ground-Water Quality of the Central Oklahoma (Garber-Wellington) Aquifer Conference: Proceedings, February 20, 1992, Open-File Report 92-116, U.S. Geological Survey.

Black, J. J. 1991. Groundwater Impacts by Oil and Gas Activities. Oklahoma Academy of Science, 80th Annual Technical Meeting, November 8, 1991.

Black J. J., J. Mott and M. Hutcheson. 1989. Tar Creek/Picher Mine Field Superfund Site Post Monitoring Study. 1989. Oklahoma Water Resources Board, Oklahoma City, OK.

Arthur M.F., G.M. DeGrave, W. H. Clement, and J. J. Black. 1988. Field Validation of a Laboratory Protocol for Assessing Complex Effluent Toxicity Persistence. Society of Environmental Toxicity and Chemistry, 9th Annual Meeting, November 13-17, 1988.

Black J. J., W. Cauthron, and W. K. Morris. 1988. Use Attainability Analysis of Clarity and Cow Creek. Oklahoma Water Resources Board, Oklahoma City, OK.

Black J. J., W. Cauthron, and W. K. Morris. 1988. Use Attainability Analysis of Chun Creek. Oklahoma Water Resources Board, Oklahoma City, OK.

Black J. J. 1988. Thesis: Protocol For In Situ Acute Toxicity Testing. University of Oklahoma, College of Engineering, Norman, OK.

Black J. J., S.L. Burks, and J. T. Robertson. 1988. "Evaluation of Containers Used to Isolate Minnows and Amphipods For In Situ Toxicity Tests in Small Streams". Oklahoma Water Resources Board, Okla. City, OK.

Black J. J., S.L. Burks, and J. T. Robertson. 1988. "The Utilization of Chlorine as a Reference Toxicant For In Situ Acute Toxicity Testing". Oklahoma Water Resources Board, Okla. City, OK.

Burks S.L., Elaine Stebler, and J. J. Black. 1987. Protocol for Laboratory Acute Toxicity Testing. Oklahoma Water Resources Board, Okla. City, OK.

Black J. J., S.L. Burks, Elaine Stebler, and P. Powell. 1987. Comparison of Laboratory and In Situ Toxicity Testing on Tahlequah and Bluff Creeks. Oklahoma Water Resources Board, Okla. City, OK.

Simpson S. R., M. V. Bastian, and J. J. Black. 1987. Use Attainability Analysis of Crutcho Creek. Oklahoma Water Resources Board, Okla. City, OK.

Black J. J., P. Powell, and D.B. Jester. 1986. Potential Effects of Draining Water From a Surface Coal Mine Pit Into Adams Creek, Wagoner County, Oklahoma. Oklahoma Water Resources Board, Okla. City, OK.

Black J. J. and S.L. Burks. 1986. In Situ Acute Toxicity Testing with Aquatic Organisms. State/U.S. EPA Water Quality Data Assessment Seminar/Workshop, Dallas, TX.

Grimshaw H. J., G. L. Shapiro, J. J. Black, D.B. Jester and P. Powell. 1985. An In situ Method for Evaluating Acute Toxicity in the Aquatic Environment, Noble Foundation, OKC, OK.

Grimshaw H. J., G. L. Shapiro, J. J. Black and P. Powell. 1985. In situ Acute Toxicity Testing on Coal Creek and a Municipal Discharge, Oklahoma Water Resources Board, OKC, OK.

Black J. J. 1984. Groundwater Pollution at a Refinery Located in Southwest Oklahoma, Oklahoma Water Resources Board, OKC, OK.

Black J. J. 1982. Sand Springs Study: Identification of Industrial Point and Non Point Source Contamination to the Arkansas River, Oklahoma Water Resources Board, OKC, OK.

Hutchinson V. H., J. J. Black, and D. Erskine. 1979. Melatonin and Chlorpromazine: Thermal Selection in Mudpuppy, Necturus Maculosus, Life Sciences 25:527 - 530.

Professional Affiliations:

Oklahoma Wildlife Federation: Southeast Regional Director, 7 years; Secretary 1 year; Conservation Vice President, 2 years, President for 2.5 years; served on the Oklahoma Citizens Advisory Task Force on the Conoco Moore Gasoline Pollution as a Technical Advisor and as a member of the Oklahoma Sludge Application Advisory Task Force. Awarded the Tom Peace Memorial, 1997 Water Conservationist.

Citizens Coal Council, past Oklahoma Regional Director and Technical Advisor, 1993-1996.

89er Trout Unlimited, Regional Director, 1 year and Technical Advisor.

Oklahoma Academy of Science: Vice Chair of the Environmental Sciences Section, 1 year, and Chair of the Environmental Sciences Section, 1 year.

National Ground Water Association: member in good standing for 9 years.

Oklahoma Ground Water Association: Technical Representative on the Board of the Directors (2002-2004), Secretary (2004), and Newsletter Editor (2003-2004).

Disabled American Veterans: Cleveland County, Chapter # 61 Treasurer and Adjutant (2012 to 2022) and Chapter Service Officer (2013 to present).

Registrations and Certifications:

Monitoring Well Driller's License (DPC - 0015), Oklahoma Water Resources Board.

Registered Environmental Professional # 3001, Court Qualified Environmental Professional # 3001CQ, Environmental and Safety Compliance Officer # 756008918, National Registry of Environmental Professionals.

Oklahoma Corporation Commission, Underground Storage Tank Consultants Certification, License #0057 from 1994 to 2002.

Appendix L

Environmental Testing, Inc.'s Quality Manual

RECEIVED

MAR 03 2023

LAND PROTECTION DIVISION
DEPT. OF ENVIRON. QLTY

Black and Associates
Environmental Consultants, Inc.

2/3

QUALITY MANUAL

FOR

ENVIRONMENTAL
TESTING, INC.

4619 N. Santa Fe • Oklahoma City • OK 73118 • (405) 488-2400

Responsible Parties

Approved by:

Russell Britten
President

James Vandersee
Vice-President

Keith Hopcus
Technical Director

Scott Haas
Quality Manager

This version of the Quality Manual will become effective on the first business day following the date shown below.

Version: 6.0		**Date:**	**10/29/2021**

SECTION 2 - TABLE OF CONTENTS

SECTION 3 – INTRODUCTION AND SCOPE

The purpose of this *Quality Manual* is to specify the quality system for Environmental Testing, Inc. (ETI). The *Quality Manual* defines the policies, procedures, and documentation that assure analytical services continually meet a defined standard of quality that is designed to provide clients with data of known and documented quality and, where applicable, demonstrate regulatory compliance.

POLICY
The Quality Manual sets the standard under which all laboratory operations are performed including ETI's organization, objectives, and operating philosophy.

3.1 Scope of Testing

ETIs scope of analytical testing services includes those listed in section 25.1 of this Manual. All relevant certifications which encompass this scope are prominently displayed on the laboratory premises.

3.2 Table of Contents, References and Appendices

The table of contents is in Section 2 of this Manual. This *Quality Manual* uses the references from the 2009 TNI Standard, Volume 1, Module 2, Section 3.2.

3.3 Glossary and Acronyms Used

Quality control terms are generally defined within the section that describes the activity.

<u>Glossary</u>

2009 TNI Standard, Volume 1, Module 2, Section 3.

<u>Acronyms</u>

A list of acronyms used in this document and their definitions are:

ASTM	–	American Society for Testing and Materials
Blk	–	Blank
°C	–	Degrees Celsius
CAS	–	Chemical Abstract Service
CCV	–	Continuing Calibration Verification
CDOC	–	Continuing Demonstration of Capability
COC	–	Chain of Custody
DO	–	Dissolved Oxygen
DOC	–	Demonstration of Capability
EPA	–	Environmental Protection Agency
ETI	–	Environmental Testing, Inc.
GC/MS	–	Gas Chromatography/Mass Spectrometry
ICP	–	Inductively Coupled Plasma

ICV	–	Initial Calibration Verification
LCS	–	Laboratory Control Sample
LIMS	–	Laboratory Information Management System
LFB	–	Laboratory Fortified Blank
MDL	–	Method Detection Limit
mg/kg	–	Milligrams per Kilogram
mg/L	–	Milligrams per Liter
MS	–	Matrix Spike
MSD	–	Matrix Spike Duplicate
NELAC	–	National Environmental Laboratory Accreditation Conference
NELAP	–	National Environmental Laboratory Accreditation Program
NIST	–	National Institute of Standards and Technology
ODEQ	–	Oklahoma Department of Environmental Quality
PT	–	Proficiency Test(ing)
QA	–	Quality Assurance
QC	–	Quality Control
QS	–	Quality System
QM	–	*Quality Manual* or Quality Manager
RCRA	–	Resource Conservation and Recovery Act
RL	–	Reporting Level
RPD	–	Relative Percent Difference
RSD	–	Relative Standard Deviation
SOPs	–	Standard Operating Procedures
SVOC	–	Semi-Volatile Organic Compound
TCLP	–	Toxicity Characteristic Leaching Procedure
TNI	–	The NELAC Institute
µg/L	–	Micrograms per Liter
VOC	–	Volatile Organic Compound

SECTION 4 – ORGANIZATIONAL ROLES AND RESPONSIBILITIES

POLICY

ETI is a legally identifiable organization. Through application of the policies and procedures outlined in this document, ETI establishes that it is impartial and that personnel are free from undue commercial, financial, or other undue pressures that might influence their technical judgment. ETI is responsible for carrying out testing activities that meet the requirements of its current certification standard and that meet the needs of the client.

4.1 Laboratory Organizational Structure

Policy

The organizational structure indicated minimizes the potential for conflicting or undue interests that might influence the technical judgment of analytical personnel.

Multiple laboratories are operated at the same physical address under the same management. This document applies only to analyses performed by ETI under the accreditations or certifications referenced by this document. Samples received for testing under ETI's accreditation are separated from other samples and are logged and processed on a separate database instance from the other laboratories. Any analyses subcontracted for Environmental Testing, Inc. to any other laboratory are clearly reported as such. Appropriate accreditation information is also reported withsubcontracted analyses.

ETI is a full service commercial environmental laboratory that is locally owned and operated. ETI was incorporated in April 2000 and officially opened for business in August of that same year. ETI is primarily certified by the Oklahoma Department of Environmental Quality as Lab #7211 and Louisiana Department of Environmental Quality LELAP Certificate 10002. The Federal tax ID is available upon request, if applicable. ETI operates in Oklahoma City, Oklahoma.

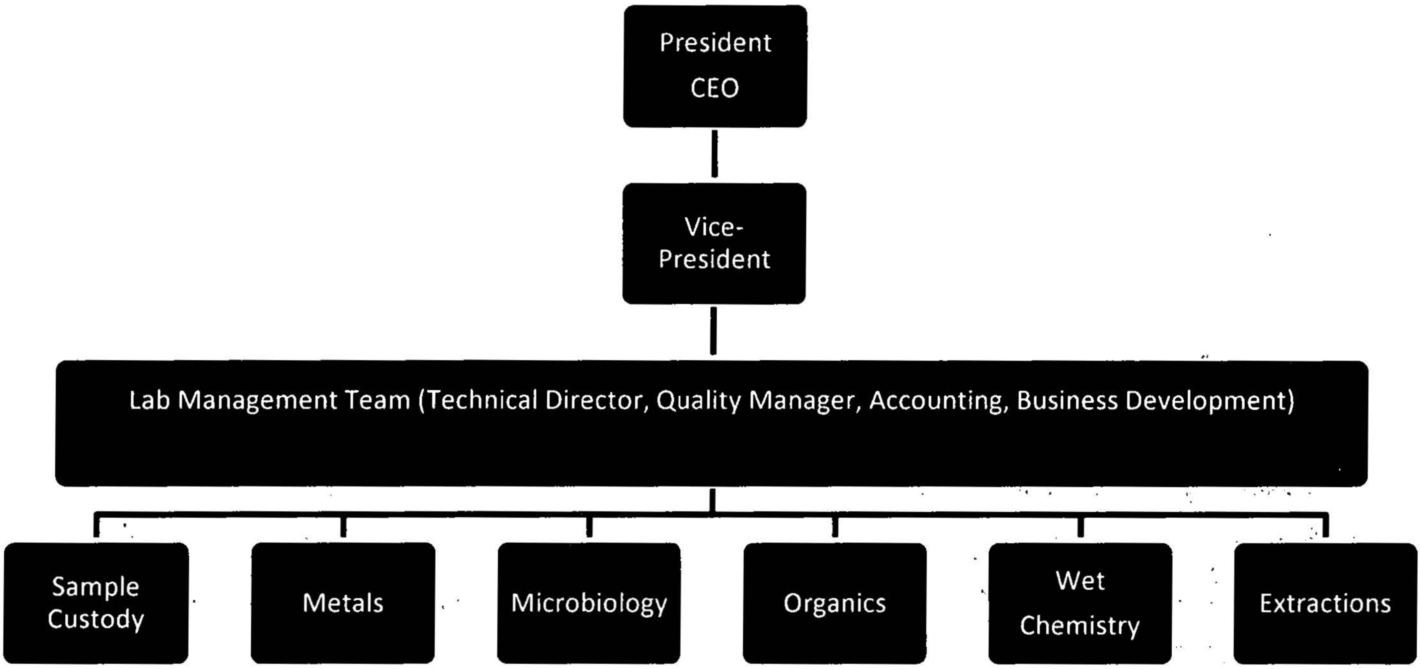


Figure 1 – Organization Chart

4.2 Responsibility and Authority

MANAGEMENT includes the titles, President/CEO, Vice President, Technical Director, and the Quality Manager.

Policy
Management has overall responsibility for the technical operations and authority needed to generate the required quality of laboratory operations.

Policy
Management's commitment to quality and to the Quality System is stated in the Quality Policy, which is upheld through the application of related policies and procedures.

Policy
Management is responsible for documenting the quality of all data reported by the laboratory.

Policy
Management ensures that all environmental testing activities are carried out in such a way to meet the requirements of the NELAC Standard and any accrediting authorities granting ETI laboratory certification, or all data is documented as non-certified.

Policy
Management ensures technical competence of personnel who are responsible for operating equipment, performing tests, evaluating results, or signing reports, and limits authority to perform laboratory functions to those appropriately trained and/or

supervised. This includes all laboratory operations carried out at ETI's permanent facilities, as well as any work carried out in a mobile or temporary laboratory setting.

Policy
ETI only uses personnel who are employed by, or under contract to ETI.

Procedure
The assignment of responsibilities, authorities, and interrelationships of the personnel who manage, perform, or verify work affecting the quality of environmental tests is documented in Figure 1. Job descriptions not listed in section 17 are listed in section 25.2.

Management bears specific responsibility for maintenance of the Quality System. This includes defining roles and responsibilities to personnel, approving documents, providing required training, providing a procedure for confidential reporting of data integrity issues, and periodically reviewing data, procedures, and documentation.

Management ensures that audit findings and corrective actions are completed within required time frames. See section 25.6.

When the Technical Director is absent, the Quality Manager acts as the Technical Director. When the Quality Manager is absent, the Technical Director acts as the Quality Manager. In the event that both the Technical Director and the Quality Manager are absent, the Laboratory Director will function as both the Technical Director and Quality Manager. In the event the Laboratory Director, Technical Director, and Quality Manager are all absent, ETI is closed.

Designated alternates are appointed by management during the absence of the President/CEO, Technical Director or the Quality Manager, and always if the absence is more than 15 days.

The primary accrediting authority(ies) are notified in writing in the event the Technical Director's absence exceeds 65 consecutive calendar days.

Management is responsible for defining the minimal level of education, qualifications, experience, and skills necessary for all positions in the laboratory and assuring that technical staff have demonstrated capabilities in their tasks.

Training is kept up to date as described in Section 17.4 by periodic review of training records and through employee performance review.

SECTION 5 – QUALITY SYSTEMS

ETI's Quality System is documented in this *Quality Manual* and associated quality system documents. Together they describe the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of the organization for ensuring quality in its work processes, products, and services.

5.1 Quality Policy

Quality Policy Statement

The objective of the quality system and the commitment of management is to consistently provide our customers with data of known and documented quality that meets their requirements. Our policy is to use good professional practices, to maintain quality, to uphold the highest quality of service, and to comply with the NELAC Standard. ETI ensures that personnel are free from any commercial, financial, and other undue pressures, which might adversely affect the quality of work. This policy is implemented and enforced through the unequivocal commitment of management, at all levels, to the Quality Assurance (QA) principles and practices outlined in this Manual. However, the primary responsibility for quality rests with each individual within the laboratory organization. Every laboratory employee must ensure that the generation and reporting of quality analytical data is a fundamental priority. Every laboratory employee is required to familiarize themselves with the quality documentation and to implement the policies and procedures in their work. All employees are trained annually on ethical principles and procedures surrounding the data that is generated. ETI maintains a strict policy of client confidentiality.

5.2 Quality Manual

Policy

Management ensures that ETI's policies and objectives for quality are documented by reference or by inclusion in the *Quality Manual*, and that the *Quality Manual* is communicated to, understood by, and implemented by all personnel concerned.

Policy

Where the *Quality Manual* documents laboratory requirements, a separate SOP or policy is not required.

Procedure

All employees sign a form, kept with their training records by the Technical Director, which states that they have read and understood the *Quality Manual*, including the quality policy.

The *Quality Manual* is maintained current and up-to-date by the Technical Director and the Quality Manager.

SECTION 6 – DOCUMENT MANAGEMENT

This Section describes procedures for document management, which includes controlling, distributing, reviewing, and accepting modifications. The purpose of document management is to preclude the use of invalid and/or obsolete documents.

ETI manages three types of documents, 1) controlled, 2) approved, and 3) obsolete.

A CONTROLLED DOCUMENT is one that is uniquely identified, issued, tracked, and kept current as part of the quality system. Controlled documents may be internal documents or external documents.

APPROVED means reviewed, and either signed and dated, or acknowledged in writing or secure electronic means by the issuing authority(ies).

OBSOLETE DOCUMENTS are documents that have been superseded by more recent versions.

POLICY
All documents that affect the quality of laboratory data are managed appropriate to the scope and depth required.

6.1 Controlled Documents

Policy
Documents will be reviewed and approved for use by Management prior to issue.

Procedure
Documents shall be reviewed and revised as necessary and on a periodic schedule not to exceed two years. Each document shall be reviewed to verify suitability for the intended use and conformance to the quality system requirements.

Approved copies of documents are available at all locations where operations are essential to the effective functions of the laboratory.

A SharePoint document library is used to control documents distributed to laboratory employees. Appropriate access levels to this library are determined and assigned by management. Each document has a unique identifying number and effective date. Approval status is shown in the library as part of the document record. All documents are reviewed and signed by the either the Vice-President or the Technical Director and the Quality Manager. After final review, the document is published to the library and approved for use by the Quality Manager. Previous versions are retained in the library history files. Hardcopies of internally produced documents (particularly Standard Operating Procedures) are uncontrolled. The controlled version shall reside in the SharePoint document library. A document specific certification statement is supplied in conjunction with the issued document. Once the document is read by the employee who it is issued to, the certification statement is signed and returned to the Technical Director to be filed in their respective training file.

Controlled internal documents are uniquely identified with 1) effective date, 2) revision identification, 3) page number, 4) the total number of pages (or a mark to indicate the end of the document), and 5) the electronic signatures of the issuing authority (i.e. management).

A master list of controlled internal documents is maintained that includes distribution, location, and revision dates. A master list of controlled external documents is also maintained that includes title, author, copyright date, and date of publication, and location. The controlled document list is maintained by the Technical Director. The controlled document list is updated at the time of issue.

6.1.1 <u>Document Changes to Controlled Documents</u>

6.1.1.1 Paper Document Changes

ETI no longer controls paper copies of documents.

6.1.1.2 Electronic Document Changes

Suggested changes to electronic documents are presented to the Technical Director for review and approval. Such changes,once approved, are made by management on the controlled file and accompanied by the respective member of management's electronic signature . If changes are made in this manner, these changes will be included in the subsequent revision upon the next review.

Where practicable, the altered text or new text in the draft is identified during the revision or review process to provide for easy identification of the modifications.

6.2 Obsolete Documents

Policy
All invalid or obsolete documents are removed from general distribution, or otherwise prevented from unintended use.

Procedure
Obsolete documents retained for legal use or historical knowledge preservation are appropriately marked and retained.

Obsolete documents are identified as being obsolete by management. All copies of the obsolete document are collected from employees according to the distribution log, and each obsolete document is clearly marked "Obsolete" on the front cover or destroyed. At least one copy of any obsolete document is kept on file as required by regulations or client.

Electronic copies of obsolete documents are marked "Obsolete" and restricted to management access only. They are retained as required by regulations or clientele.

6.3 Standard Operating Procedures

STANDARD OPERATING PROCEDURES (SOPs) are used to ensure consistency of application of common procedures, are written procedures that describe in detail how to accurately reproduce laboratory processes, and are of two types: 1) test method SOPs, which have specifically required details, and 2) general use SOPs which document the more general organizational procedures.

SOPs do not have to be formal documents with predefined section headings and contents. They can be less formal descriptions of procedures described in the *Quality Manual* or other documents.

Policy
Copies of all SOPs are accessible to all personnel.

Procedure
Each SOP indicates the effective date, the revision number, and the approval signature(s) of the Quality Manager and Vice-President or Technical Director

6.3.1 Test Method SOPs

Policy
ETI has SOPs for all test methods within its scope, and for procedures that are part of the Quality System that accurately reflect how the analytical process is performed. SOPs, active and obsolete, are maintained by the Quality Manager on the laboratory SharePoint server. Where equipment manuals or published methods accurately reflect laboratory procedures in detail, a separate SOP is not required.

Policy
Any deviation from a test method is documented, including both a description of the change made and a technical justification. The deviation from a test method is reported to the client.

Procedure
Each Test Method SOP includes or references (as applicable) the following:

a) identification of the test method;
b) applicable matrix or matrices;
c) detection limit;
d) scope and application, including components to be analyzed;
e) summary of the test method;
f) definitions;
g) interferences;
h) safety;
i) equipment and supplies;
j) reagents and standards;
k) sample collection, preservation, shipment and storage;
l) quality control, including acceptance criteria (5.4.10.6);
m) calibration and standardization;
n) procedure;
o) data analysis and calculations;
p) method performance;
q) pollution prevention;
r) data assessment and acceptance criteria for quality control measures;
s) corrective actions for out-of-control ;
t) contingencies for handling out-of-control or unacceptable data;
u) waste management;
v) references; and,
w) any tables, diagrams, flowcharts and validation data.

SECTION 7 – REVIEW OF REQUESTS, TENDERS AND CONTRACTS

POLICY

The review of all new work assures that oversight is provided so that requirements are clearly defined, ETI has adequate resources and capability, and the test method is applicable to the customer's needs. This process assures that all work will be given adequate attention without shortcuts that may compromise data quality.

Contracts for new work may be formal bids, signed documents, verbal, or electronic.

PROCEDURE

7.1 Procedure for the Review of Work Requests

The President/CEO or the Technical Director determines if ETI has the necessary accreditations, resources, including schedule, equipment, deliverables, subcontract laboratories, and personnel to meet the work request.

Management informs the client of the results of the review if it indicates any potential conflict, deficiency, lack of accreditation, or inability of the lab to the complete the work satisfactorily.

The client is informed of any deviation from the contract including the test method or sample handling processes. All differences between the request and the final contract are resolved and recorded before any work begins. It is necessary that the contract be acceptable to both ETI and the client.

ETI will also inform the client of any suspension, revocation, or voluntary withdraw of accreditation.

The review process is repeated when there are amendments to the original contract by the client. The participating personnel are given copies of the amendments.

7.2 Documentation of Review

Records are maintained for every contract or work request, when appropriate. This includes pertinent discussions with a client relating to the client's requirements or the results of the work during the period of execution of the contract.

SECTION 8 – SUBCONTRACTING OF TESTS

A SUBCONTRACT LABORATORY is any laboratory that ETI transfers samples to for analysis.

POLICY

When subcontracting analytical services, ETI assures work requiring accreditation is placed with an appropriately accredited laboratory or one that meets applicable statutory and regulatory requirements for performing the tests. The client is informed of this arrangement.

PROCEDURE

A list of subcontractors is maintained by the Technical Director.

A copy of the certificate and analyte list for subcontractors may be maintained as evidence of compliance.

ETI notifies the client of the intent to subcontract the work by e-mail or in writing. When possible, ETI gains the approval of the client to subcontract their work prior to implementation, preferably in writing.

The laboratory performing the subcontracted work is identified in the final report. ETI assumes responsibility to the client for the subcontractor's work, except in the case where a client or a regulating authority specified which subcontractor is to be used.

SECTION 9 – PURCHASING SERVICES AND SUPPLIES

POLICY
ETI ensures that purchased supplies and services that affect the quality of environmental tests are of the required or specified quality by using approved suppliers and products. ETI verifies disposable volumetric vials, containers, and pipettes. All new lots of consumables that are used for the extraction or analysis of samples that could affect the quality of data shall be checked for accuracy and contamination. Each lot of each type of vial, pipette, container, etc. used for volumetric measurement shall be verified. This is accomplished by measuring the weight of DI water required to fill the container to the respective measurement typically used by the laboratory. This is recorded in the respective department's consumable logbook.

POLICY
ETI has procedures for purchasing, receiving, and storage of supplies that affect the quality of environmental tests.

PROCEDURE
The Technical Director reviews and approves the supplier of services and supplies and approves technical content of purchasing documents prior to ordering.

Evaluation of suppliers is accomplished by ensuring the supplier ships the product or material ordered and that the material is of the appropriate quality by signing packing slips or other supply receipt documents. The purchasing documents contain the data that adequately describe the services and supplies ordered.

ETI maintains a list of approved suppliers.

Procedure for Purchases

When laboratory supplies are needed, a purchase request is submitted to a member of management for approval prior to ordering. A member of management then initiates the order and purchases the requested laboratory supplies.

Procedure for Receipt of Supplies

Supplies received are reconciled against the packing list and inspected for damage. Reagents and chemical standards are checked-in and given a unique identification number by the Vice-President, Quality Manager or designee, dated and initialed, and distributed to the appropriate individuals, departments or storage areas.

Procedure for Verification of Supplies

Disposable volumetric containers are verified by checking and documenting one per lot of all vials, pipettes, and containers which are used for volumetric measurements.

Procedure for Storage of Supplies

Supplies are stored according to manufacturer's recommendation, laboratory SOP, or test method specifications.

SECTION 10 – SERVICE TO THE CLIENT

ETI collaborates with clients and/or their representatives in clarifying their requests and in monitoring of the laboratory performance related to their work. Each request is reviewed to determine the nature of the request and ETI's ability to comply with the request within the confines of prevailing statutes and/or regulations without risk to the confidentiality of other clients.

10.1 Client Confidentiality

Policy
ETIs confidentiality policy is to not divulge or release any information to a third party without proper authorization.

Policy
All electronic data (storage or transmissions) are kept confidential, based on technology and laboratory limits, as required by client or regulation.

Procedure
ETI sends reports and data by three methods U.S. Postal service, electronic facsimile and e-mail. ETI sends reports to the address(es), fax number(s), or e-mail(s) supplied by the client listed on the COC. Only the client listed on the COC has the authority to request ETI to send reports and/or data to a third party.

ETI cannot be responsible for the confidentiality of the above means of data transmission.

SECTION 11 – CLIENT FEEDBACK

The purpose of this section is to assure that customer complaints are addressed and corrected.

POLICY
ETI reviews all complaints and determines appropriate action.

PROCEDURE
All customer complaints are documented by the person receiving the complaint and addressed by the President/CEO, Technical Director, and Quality Manager or a combination of the aforementioned. If it is determined that a complaint is without merit, this decision will be recorded. If it is determined that the complaint has merit, a corrective action is initiated and the client is contacted. See Section 13 for corrective action procedures.

ETI will also actively seek feedback from our customers. This will be accomplished by the inclusion of a live link survey found on the ETI company website. This survey will offer customers an anonymous vehicle to provide both positive an dnegative feedback in a platform that is both accessible and user-friendly. Survey results will be automatically, electronically delivered to ETI management staff. Results will be discussed and appropriate action taken. Decisions made regarding feedback received shall be recorded.

SECTION 12 – CONTROL OF NON-CONFORMING WORK

NON-CONFORMING WORK is work that does not meet acceptance criteria or requirements. Non-conformances can include unacceptable quality control results (see Section 24 Assuring the Quality of Results) or departures from standard operating procedures or test methods. Requests for departures from laboratory procedures are approved by the Technical Director and documented.

POLICY

The policy for control of non-conforming work is to identify the non-conformance, determine if it will be permitted, and take appropriate action. All employees have the authority to stop work on samples when any aspect of the process does not conform to laboratory requirements.

PROCEDURE

The responsibilities and authorities for the management of non-conforming work are detailed below. The procedure for investigating and taking associated corrective actions of non-conforming work are described in Section 13.

ETI evaluates the significance of the nonconforming work, and takes corrective action immediately including documentation. The client is notified if their data has been impacted. Resumption of work after non-conformance is authorized by Management.

Procedure for Managing Nonconforming Work

Employees immediately notify Management of any nonconformance. A member of Management reviews the significance of non-conformance and develops a course of action. This may include halting of work and withholding of test reports as necessary. If data are questionable, customers are notified with the ETI final report.

SECTION 13 – CORRECTIVE ACTION

CORRECTIVE ACTION is the action taken to eliminate the causes of an existing nonconformity, defect, or other undesirable situation in order to prevent recurrence.

POLICY

Deficiencies cited in external assessments, internal quality audits, data reviews, complaints, or managerial reviews are documented and require corrective action. Corrective actions taken are appropriate for the magnitude of the problem and the degree of risk.

PROCEDURE

The Quality Manager is responsible for initiating corrective action on routine data reviews. The Quality Manager is responsible for monitoring and recording corrective actions.

All deficiencies are investigated and a corrective action plan is developed and implemented as necessary. The implementation is monitored for effectiveness.

Specific corrective action protocols specified in test methods may over-ride general corrective action procedures specified in this manual.

13.1 Selection and Implementation of Corrective Actions

ROOT CAUSE is the condition or event that, if corrected or eliminated, would prevent the recurrence of a deficiency.

Policy
Once an exceedance or non-conformance is noted, the first action is an investigation to determine the root cause. Records are maintained of non-conformances requiring corrective action to show that the root cause(s) was investigated, and includes the results of the investigation.

Where uncertainty arises regarding the best approach for analysis of the cause of exceedances that require corrective action, Management will recommend corrective actions to be initiated.

The Quality Manager ensures that corrective actions are discharged within the agreed upon time frame.

13.2 Monitoring of Corrective Action

Policy
The Quality Manager will monitor implementation and documentation of the corrective action to verify that the corrective actions were effective.

Procedure
See the Corrective Actions SOP (ETICD-SOP-2).

13.3 Technical Corrective Action

CAUSE ANALYSIS in corrective action investigates the root cause of the problem.

Policy
Sample data associated with a failed quality control are evaluated for the need to be reanalyzed or qualified.

Procedure
Unacceptable quality control results are documented, and if the evaluation requires cause analysis, the cause and solution are recorded.

The analyst is responsible for initiating or recommending corrective actions and ensuring that exceedances of quality control acceptance criteria are documented. Analysts routinely implement corrective actions for data with unacceptable QC measures. First level correction may include re-analysis without further assessment. If the test method SOP addresses the specific actions to take, they are followed. Otherwise, corrective actions start with assessment of the cause of the problem.

Management reviews corrective action reports and suggest improvements, alternative approaches, and procedures where needed. To the extent possible, samples will be reported only if all quality control measures are acceptable. If a quality control measure is found to be out of control, and the data is to be reported, all samples associated with the failed quality control are reported with appropriate data qualifiers. If the data reported are affected adversely by the nonconformance, the client is notified in writing.

The discovery of a non-conformance for results that have already been reported to the client must be immediately evaluated for significance of the non-conformance, its acceptability to the client, and determination of the appropriate corrective action.

13.4 Exceptionally Permitting Departures from Documented Policies and Procedures

Policy

ETI allows the release of non-conforming data only with approval by the President/CEO or the Technical Director or their designee on a case-by-case basis. Planned departures from procedures or policies do not require audits or investigations.

Procedure

Permitted departures for non-conformances, such as QC failures, are fully documented and include the reason for the departure, the affected SOP(s), the impact of the departure on the data, and the data.

SECTION 14 – PREVENTIVE ACTION

PREVENTIVE ACTION, rather than corrective action, aims at minimizing or eliminating inferior data quality or other non-conformance through scheduled maintenance and review, before the non-conformance occurs. Preventive action includes actions taken to prevent problems.

All employees shall have the authority to recommend preventive action. In addition, potential preventative actions will be discussed as an agenda item during the annual management review.

The Quality Manager shall document all recommended preventive actions, evaluate the suitability and/or effectiveness of the recommendation, record the decision, and develop an implementation plan including follow-up monitoring for any changes deemed appropriate.

Implementation of preventive action is verbally communicated between management and analysts. This action may be documented in the method specific SOP if found to be effective.

SECTION 15 – CONTROL OF RECORDS

RECORDS are a subset of documents, usually data recordings that include annotations, such as daily refrigerator temperatures posted to a laboratory form, lists, spreadsheets, or analyst notes on a chromatogram. Records may be on any form of media, including electronic and hard copy. Records allow for the historical reconstruction of laboratory activities related to sample-handling and analysis.

POLICY

ETI maintains a record system appropriate to its needs, records all laboratory activities, and complies with applicable standards or regulations as required.

PROCEDURE

ETI retains all original observations, calculations and derived data, calibration records, and a copy of the test report for a minimum of five years.

Records of all procedures to which a sample is subjected while in the possession of ETI are kept.

15.1 Records, Management and Storage

Policy
Records, including electronic records, are easy to retrieve, legible, and protected from deterioration or damage; held secure and in confidence; and are available to accrediting authorities and authorized clientele for a minimum of five years from generation of the last entry in the records.

Policy
ETI maintains a record management system for control of laboratory notebooks, field notes, instrument logbooks, standards logbooks, and records for data reduction, validation, storage, and reporting.

Original observations, data, and calculations are recorded at the time they are made.

Policy
When mistakes occur in records or changes need to be made, including but not limited to logbooks, chain of custodies, and bench sheets, a single line is drawn through the mistake along with the date and initials of the person making the correction or change. The correction is entered alongside the crossed out and initialed mistake. Scribbling out and whiting out are not allowed. The original crossed out data must still be legible.

Policy
When corrections are made for reasons other than transcription errors, the reason for the correction should be documented as close to the correction as possible.

Policy
Archived information and access logs are protected against fire, theft, loss, environmental deterioration, vermin, and in the case of electronic records, electronic or magnetic sources.

Policy

In the event that ETI transfers ownership or goes out of business, records are maintained or transferred according to the clients' instructions.

Procedure
All electronic records are backed-up automatically by the server. Access to protected records is limited to laboratory management or their designees to prevent unauthorized access or amendment.

Procedures for identification, collection, access, filing, storage, and disposal of records are found below.

Procedure
The Chain-of-Custody (COC) begins the record management process at ETI. When samples arrive at ETI, a COC is filled out and signed by both the party relinquishing the samples to the laboratory and a member of the ETI team. The date and time are also recorded in their respective locations on the COC. A unique work order number is written on each COC which corresponds to the unique sample number given to each sample submitted.

One copy of the COC is placed in a three-ring binder and stored on-site organized by month. Another copy is placed in a file folder that is numbered with the work order number and filed alphabetically according to client name. This file remains active until the project is complete. All chromatograms and pertinent data that are not recorded in a bound logbook are also placed in the same file.

Once the project is complete, the file is submitted to a member of management for report and invoice generation. The generated report is then reviewed by another member of the management team and then sent to the client via email or or other appropriate method.

Supporting documentation for the work order are scanned and filed electronically by work order Hardcopies are disposed of in a confidential manner.

Electronic files are retained for a period of five years and then deleted.

15.2 Legal Chain of Custody Records

EVIDENTIARY SAMPLE DATA not applicable.

Policy
ETI does not accept samples accompanied by or requiring evidentiary legal chain of custody.

See the SOP for Sample Login (ETICD-SOP-67).

SECTION 16 – AUDITS AND MANAGEMENT REVIEW

AUDITS measure laboratory performance and verify compliance with accreditation/ certification and project requirements. Audits specifically provide management with an on-going assessment of the quality system. They are also instrumental in identifying areas where improvement in the quality system will increase the reliability of data. Audits are of four main types: internal, external, performance, and system.

Should any audit show evidence that casts doubt on the validity of the results produced by ETI, clients whose results could have been directly affected by such findings are notified as soon as possible after the findings.

Notification of clients for events that cast doubt on the validity of the results is completed within 5 business days.

16.1 Internal Audits

Policy
ETI conducts internal audits all of its quality systems activities, including data integrity, environmental testing activities, and the use of trained and qualified personnel at least annually. Personnel may not audit their own activities except when it can be demonstrated that an effective audit will be carried out.

Procedure
An internal audit schedule shall be maintained by the quality manager such that all elements of the management system, including testing and/or calibration activities are reviewed at least annually.

It is the responsibility of the Quality Manager to plan and organize audits as required by the schedule and requested by management.
The area audited, the audit findings, and corrective actions are recorded.

All investigations that result in findings of inappropriate activity are documented and include any disciplinary actions involved, corrective actions taken, and all appropriate notifications of clients.

Discovery of potential issues are handled in a confidential manner until a follow up evaluation, full investigation, or other appropriate actions are taken and all issues clarified.

Clients are notified within one week (5 business days), in writing when possible, when audit findings cast doubt on the validity of the data.

Audits are reviewed after completion to assure that corrective actions were implemented and effective.

16.2 External Audits

Policy
It is ETI's policy to cooperate and assist with all external audits, whether performed by clients or an accrediting authority.

Policy
ETI makes all items identified in the 2009 TNI Standard Volume 1, Module 2: Quality Systems General Requirements, available for on-site inspection or data audit.

Policy
All external audits are fully documented and tracked to closure.

Procedure
Management ensures that all areas of ETI are accessible to auditors as applicable and that appropriate personnel are available to assist in conducting the audit.

Any findings related to an external audit follow corrective action procedures.

Management ensures that corrective actions are carried out within the timeframe specified by the auditor(s).

16.3 Performance Audits

Performance audits may be Proficiency Test Samples, internal single-blind samples, double-blind samples through a provider or client, or anything that tests the performance of the analyst and method.

The policy and procedures for Proficiency Test Samples are discussed in Section 23.7.

16.4 System Audits and Management Reviews

Policy
The Technical Director and Quality Manager review the quality system and maintain records of review findings and actions.

Procedure
The quality system is reviewed annually, and findings are recorded. The Technical Director and Quality Manager assure that actions are performed within agreed time frames.

The quality system is reviewed annually by the Technical Director and Quality Manager, and based on the suitability of policies and procedures, changes and amendments are made and documented. The review procedure will include the following points of interest:

a) The suitability of policies and procedures;
b) Reports from managerial and supervisory personnel;
c) The outcome of recent internal audits;
d) Corrective and preventive actions;
e) Assessments by external bodies;
f) The results of interlaboratory comparisons or proficiency tests;
g) Changes in the volume and type of the work;
h) Client feedback;
i) Complaints;

j) Other relevant factors, such as quality control activities, resources and staff training.

Findings from management reviews are recorded. These records ensure that corrective actions are completed in an appropriate time frame.

All documentation from audits are maintained for a period of no less than 5 years.

SECTION 17 – PERSONNEL, TRAINING, AND DATA INTEGRITY

17.1 Job Descriptions

Policy
Job descriptions are available for all positions that manage, perform, or verify work affecting data quality, and are located in Section 25.2.

ETI maintains sufficient personnel with the necessary education, training, technical knowledge, and experience for their assigned functions.

All personnel are responsible for complying with all quality assurance and quality control requirements that pertain to their technical function.

Procedure
Job descriptions include the specific tasks, minimum education and qualifications, skills, and experience required for each position.

17.1.1 Laboratory Director

The Laboratory Director is in charge of all laboratory activities, and is the highest level manager. The Laboratory Director signs the *Quality Manual*. The Laboratory Director is responsible for the oversight of daily laboratory operations, including the assignment of lab staff to duties and monitoring performance of testing.

At ETI the President/CEO also serves as the Laboratory Director.

17.1.2 Technical Director(s)

Day to day supervision of technical laboratory operations is the responsibility of the Technical Director(s) who are full-time members of the staff and who assure reliable data through the following activities: monitoring quality control, corroborating the analysis performed, and signing demonstrations of capability.

The Technical Director(s) certify that personnel with appropriate educational and/or technical background perform all tests for which ETI is accredited.

The minimum educational requirements for Technical Director(s) are a bachelors degree in the chemical, environmental, biological sciences, physical sciences or engineering, with at least 24 college semester credit hours in chemistry and at least two years of experience in the environmental laboratory industry.

17.1.3 Quality Manager

The Quality Manager has the authority and responsibility for ensuring that the quality system is implemented and followed.

The Quality Manager has direct access to the Laboratory Director and is independent of operations where the Quality Manager has oversight.

The Quality Manager:

- is the focal point for the quality system and has oversight of quality control data.
- has general knowledge of the analytical methods employed.
- evaluates data objectively and performs assessments without managerial influence.
- arranges for, or conducts, internal audits annually; and,
- notifies laboratory management of deficiencies (or opportunities for continuous improvement) and monitors corrective actions.
- keeps the *Quality Manual* current.
- signs the demonstrations of capability.

The minimum educational requirements for Quality Manager are a bachelors degree in the chemical, environmental, biological sciences, physical sciences or engineering, with at least 24 college semester credit hours in chemistry and at least two years of experience in the environmental laboratory industry.

17.2 Data Integrity and Ethics

DATA INTEGRITY is the result of the processes that together assure valid data of known and documented quality.

Data integrity and ethics procedures in the laboratory include training, signed, and dated integrity documentation for all laboratory employees, periodic monitoring of data integrity, and documented data integrity procedures.

Policy
Technical managers uphold the spirit and intent by supporting integrity procedures, by enforcing data integrity procedures.

Policy
Data integrity procedures and evidence of inappropriate actions are reviewed annually or through regularly scheduled internal audits, and are updated by management.

Policy
The mechanism for confidential reporting of ethics and data integrity issues is (1) unrestricted access to senior management, (2) an assurance that personnel will not be treated unfairly for reporting instances of ethics and data integrity breaches, and (3) anonymous reporting.

Policy
Employees are required to understand, through training and review of quality systems documents, that any infractions of the laboratory data integrity procedures will result in a detailed investigation that could lead to very serious consequences such as immediate termination, or civil/criminal prosecution.

Policy
Any potential data integrity issue is handled confidentially until a follow-up evaluation, full investigation, or other appropriate actions have been completed and the issues clarified. Inappropriate activities are documented, including disciplinary actions, corrective actions, and notifications of clients, if applicable. These documents are maintained for a minimum of 5 years.

Procedure
Any determination for detailed investigation of data integrity issues must be communicated to senior management. Allegations are investigated and remain confidential to the extent necessary.

Documentation for all investigations that result in findings of inappropriate activity include any disciplinary actions involved, corrective actions taken, and all appropriate notifications of clients.

Data integrity procedures are reviewed annually and are periodically monitored through in-depth data review, records review, or other thorough check processes.[162]

17.3 Data Integrity and Ethics Training

Policy
Data integrity training is provided for all employees initially upon hire and annually thereafter. Key topics covered will include the organizational mission and its relationship to the critical need for honesty and full disclosure in analytical reporting, how and when to report data integrity issues, and record keeping.

ProcedureAttendance at an initial data integrity training (part of new employee orientation) and the annual refresher training is recorded with a signature attendance sheet or other form of documentation that demonstrates all staff have participated and understand their obligations related to data integrity. The Technical Director keeps a signed copy of the 'Laboratory Ethics and Code of Conduct Agreement' in each employees' training file. This document is inked with each employee's printed name, initials, signature, and date upon agreement to the form. In addition all employees must print, sign, initial, and date the ETI Signature Log.

Data integrity training includes discussion regarding all data integrity procedures, data integrity training documentation, in-depth data monitoring and data integrity procedure documentation. Data integrity training requires emphasis on the importance of proper written narration on the part of all analysts with respect to those cases where analytical data may be useful, but are in one sense or another partially deficient. Training records regarding data integrity and ethics are signed and dated by senior management.

When contracted technical or support personnel are used, management is responsible for ensuring that they are trained to ETI's quality system and data integrity procedures, competent to perform the assigned tasks, and appropriately supervised.

Topics covered are provided in writing and provided to all trainees.

17.4 General Training

Policy
All personnel are appropriately trained and competent in their assigned tasks before they contribute to functions that can affect data quality. It is management's responsibility to assure personnel are trained.

Policy
Only trained personnel are authorized to perform specific tasks.

Policy
Training records are kept on individual training forms.

Procedure
New staff members are given introductory training and orientation upon arrival. Training is documented of all who attended.

Attendance at training sessions is documented.

The initial training for a new task contains the following steps:

- All documentation involved with a new and unfamiliar task is read and understood by the trainee.
- Training is under the direct supervision of a qualified senior analyst. During the time the analyst is training, the trainee may sign laboratory notebooks or logbooks, but laboratory notebooks must be cosigned by the senior analyst, who is responsible for the data generated.
- The trainee demonstrates competency in the new task before they can operate independently. The competency for a test method is accomplished by a demonstration of capability as indicated in Section 19. Approval of competency is noted by the initials or signature of the qualified senior analyst on the training form.
- Each step of the training process is documented.

Ongoing training will consist of the following:

- The analyst attests, through signature that they have read, understood, and agreed to perform the latest version of the *Quality Manual* and any method SOP's that the analyst performs.
- Annually, the analyst shows continued proficiency in each method they perform.

- Other training as determined by management.
- Proof of acceptable on-going training is documented by acceptable performance of bi-annual proficiency samples.

SECTION 18 – ACCOMMODATIONS & ENVIRONMENTAL CONDITIONS

POLICY
Laboratory facilities are designed and organized to facilitate testing of environmental samples. Environmental conditions are monitored to ensure that conditions do not invalidate results or adversely affect the required quality of any measurement.

POLICY
Particular care is taken when sampling and environmental tests are undertaken at sites other than ETI's permanent laboratory facility.

POLICY
Any field analyses conducted by a member of ETI's staff must be performed in accordance with the quality system.

POLICY
Environmental tests are stopped when the environmental conditions jeopardize the results.

POLICY
Access to, and use of areas affecting the quality of the environmental tests is controlled by restriction of areas to authorized personnel only.

POLICY
The laboratory work spaces are adequate for their use, and appropriately clean to support environmental testing and ensure an unencumbered work area.

PROCEDURE
Laboratory space is arranged to minimize cross-contamination between incompatible areas of the laboratory.

ETI separates volatiles to help prevent contamination from extractions and other areas where compounds of interest are used. The volatile room has its own heating and cooling system. See the ETI floor plan in section 25.4 for complete spatial arrangement.

If the laboratory environment is required to be controlled by method or regulation, the adherence is recorded.

ETI contracts janitorial services. At ETI's request, no services are performed in the actual laboratory areas. This insures there are no accidental instrument changes or mishaps. Therefore, each employee is responsible for keeping their work area clean and clutter free.

SECTION 19 – TEST METHODS AND METHOD VALIDATION

POLICY
ETI uses methods for environmental testing which meet the needs of our clients and that are appropriate for the environmental tests undertaken. These methods are published in international, national, or regional standards, if possible, and will be the latest valid edition or latest revision if appropriate.

POLICY
A method is validated before it is put into use. All methods are published or documented.

19.1 Demonstration of Capability (DOC)

A DEMONSTRATION OF CAPABILITY (DOC) is a procedure to establish the ability of the analyst to generate data of acceptable accuracy and precision.

WORK CELLS consist of analysts with specifically defined tasks who together perform the method. Work cells together meet specified acceptance criteria and demonstrations of capability.

Policy
ETI confirms that it is capable of generating data of acceptable accuracy and precision on all methods before employing them.

ProcedureThe DOC is documented using the initial demonstration of capability (IDC) – continuing demonstration of capability (CDOC) database or equivalent.

A DOC is performed for each analyte whenever the method, analysts, analytes, or instrument type is changed.
A member of the management team certifies that technical staff members in their area of expertise are trained and authorized to perform all tests for which we are accredited by reviewing and approving the submitted DOC.

The process for DOC is documented in Section 25.3.

19.2 On-Going (or Continued) Proficiency

After the demonstration of capability is completed, on-going proficiency is maintained and demonstrated at least annually through the analysis of either single-blind samples, performing another DOC, or use of four consecutive laboratory control samples compared to pre-determined acceptance limits for precision and accuracy. This is documented in the training file of each analyst.

19.3 Initial Test Method Evaluation

For chemical analyses, the INITIAL TEST METHOD EVALUATION involves the determination of the Limit of Detection (LOD), confirmation of the Limit of Quantitation (LOQ), an evaluation of precision and bias, and an evaluation of the selectivity of the method.

19.3.1 Limit of Detection (LOD)

The LIMIT OF DETECTION (LOD) is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte-and matrix specific and may be laboratory-dependent. (NELAC Glossary 2003).

19.3.2 Limit of Quantitation (LOQ)

The LIMIT OF QUANTITATION (LOQ) is an estimate of the minimum amount of a substance that can be reported with a specified degree of confidence. (NELAC Glossary 2003).

Policy
If an LOD study is not performed, concentrations less than the Limit of Quantitation are not reported. If results are not reported outside of the calibration range (low), the LOD determination is not required.

Policy
The lowest calibration standard is less than or equal to the LOQ.

Policy
The LOQ will always be greater than the LOD.

Procedure
LODs are determined from a quality system matrix using all sample processing steps, and are verified annually or when there is a change in the test method or instruments which affects sensitivity.

ETI establishes the LOQ to be equal to or above the lowest calibration point for all methods which utilize a series of calibration standards. For methods which do not use calibration standards ETI uses a combination of method suggestions and practical equipment limitations to establish the LOQ.

The LOQ is verified using a quality systems matrix sample spiked at 1-2 times the determined LOQ that returns a concentration within the acceptance criteria for accuracy, according to the requirements of the method or client data quality objectives. When no guidance is given for the acceptance criteria for an LOQ verification, use 50-150% of the true value. The LOQ is verified initially prior to sample analysis and at least annually.

19.3.3 Precision and Bias

PRECISION is the degree to which a set of observations or measurements of the same property, obtained under similar conditions, conform to themselves. Precision is usually expressed as standard deviation, variance, or range, in either absolute or relative terms.

BIAS is the systematic error that contributes to the difference between the mean of a significant number of test results and the accepted reference value.

PolicyPrecision and bias are determined for standard and non-standard methods.

Procedure

Precision and bias are determined for standard methods through the performance of a Demonstration of Capability.

ETI evaluates precision and bias during the initial DOC for each analyst and each method and continually evaluates precision and bias by the analysis of bi-annual proficiency tests.

Precision and bias using non-standard, modified standard or laboratory-developed methods are compared to the criteria established by the client (when requested), the method, or the laboratory.

Replicate spikes in a quality system matrix are analyzed according the procedures outlined in the 2009 TNI Standard, Volume 1, Module 4, Section 1.7.

19.3.4 <u>Selectivity</u>

SELECTIVITY is the capability of a test method or instrument to respond to a target substance or constituent in the presence of non-target substances (EPA-QAD).

Policy
ETI evaluates selectivity through procedures defined in the test method SOPs. These include but are not limited to ICP inter-element interference checks, sample blanks, second column confirmations, and mass spectral confirmation.

19.4 Estimation of Uncertainty

ESTIMATION OF UNCERTAINTY consists of the sum (combining the components) of the uncertainties of the numerous steps of the analytical process, including, but not limited to, sample plan variability, spatial and temporal sample variation, sample heterogeneity, calibration/calibration check variability, extraction variability, and weighing variability.

Procedure
ETI estimates uncertainty using the standard deviation calculated from routine quality control samples.

ETI uses method guidelines for establishing uncertainty estimates.

19.5 Laboratory-Developed or Non-Standard Method Validation

Policy
Laboratory developed, modified standard methods, and non-standard methods require method validation.

Procedure

METHOD VALIDATION is the confirmation by examination and the provision of objective evidence that the particular requirements for a specific intended use are fulfilled (NELAC 2003).

Policy

Where applicable, ETI validates non-standard methods, laboratory-designed/developed methods, standard methods used outside their published scope, and amplifications and modifications of standard methods to confirm that the methods are fit for the intended use.

Policy
The range and accuracy of the values obtainable from validated methods (e.g. the uncertainty of the results, detection limit, selectivity of the method, linearity, limit of repeatability and/or reproducibility, robustness against external influences and/or cross-sensitivity against interference from the matrix of the sample/test object), is assessed for the intended use and whether it is relevant to the clients' needs.

Procedure
ETI's method validation procedures include, at a minimum, the steps described in the 2009 TNI Standard Volume 1, Module 4, Section 1.5. ETI records method validation results, the procedure used for the validation, and a statement as to whether the method is fit for the intended use.

19.6 Control of Data

Policy
All calculations and all relevant data are subject to appropriate checks in a systematic manner.

PolicyCommercial off-the-shelf software (e. g. word processing, database and statistical Programs) used within the designed application range is considered sufficiently validated when in-house programming is not used.

Procedure
ETI assures that computers and software are protected, maintained, and secure through measures such as documentation, locked access, and control of the laboratory environment.

The Technical Director retains custody of all software packages, documentation, and licenses.

The laboratory procedure to insure that reported data are free from transcription and calculation errors is found in Section 23.8.

The laboratory procedure that all quality control measures are reviewed and evaluated before data are reported is found in Section 23.8.

The laboratory procedure to address manual calculations, including manual integrations is found below.

Transcription and calculation errors are minimized through the use of spreadsheets, data review, and through periodic review of the data reduction processes.

Quality control results are reviewed by the analyst and by a member of management. The results are evaluated for consistency, trend, or feasibility before data are released to the client.

Manual integrations are addressed on an individual basis in the method specific SOP.

ETI assures that computers, user-developed computer software, automated equipment, or microprocessors used for the acquisition, processing, recording, reporting, storage, or retrieval of environmental test data are:

a) documented in sufficient detail and validated as being adequate for use;

b) protected for integrity and confidentiality of data entry or collection, data storage, data transmission and data processing;

c) maintained to ensure proper functioning and are provided with the environmental and operating conditions necessary to maintain the integrity of environmental test data; and

d) held secure including the prevention of unauthorized access to, and the unauthorized amendment of, computer records.

SECTION 20 – EQUIPMENT

20.1 General Equipment Requirements

PolicyETI provides all the necessary equipment required for the correct performance of the scope of environmental testing presented in this *Quality Manual*.

PolicyAll equipment and software used for testing and sampling is capable of achieving the accuracy required and complies with the specifications of the environmental test method as specified in the laboratory SOP.

Policy
Equipment is operated only by authorized personnel.

PolicyThe laboratory procedure for safe handling, transport, storage, and use of measuring equipment to ensure proper functioning and in order to prevent contamination or deterioration is found in the respective equipment manual.

Procedure
Up-to-date instructions on the use and maintenance of equipment (including any relevant manuals provided by the manufacturer of the equipment) are readily available for use by laboratory personnel.

All equipment is calibrated or checked before being placed into use to ensure that it meets laboratory specifications and the relevant standard specifications.

Test equipment, including hardware and software, are safeguarded from adjustments which would invalidate the test results measures by limiting access to the equipment and using password protection where possible.

Equipment that has been subject to overloading, mishandling, given suspect results, or been shown to be defective or outside specifications is taken out of service, isolated to prevent its use, or clearly labeled as being out of service until it has been shown to function properly. If it is shown that previous tests are affected, then procedures for non-conforming work are followed.

When equipment is needed for a test that is outside of permanent control of the laboratory, the lab ensures the equipment meets the requirements of this manual prior to its use by inspecting or otherwise testing it.

Each item of equipment and the software used for testing and significant to the results is uniquely identified and records of equipment and software are maintained. This information includes the following:

a) identity of the equipment and its software;
b) manufacturer's name, type identification, serial number or other unique identifier;
c) checks that equipment complies with specifications of applicable tests;
d) current location;
e) manufacturer's instructions, if available, or a reference to their location;

f) dates, results and copies of reports and certificates of all calibrations, adjustments, acceptance criteria, and the due date of next calibration;

g) maintenance plan where appropriate, and maintenance carried out to date; documentation on all routine and non-routine maintenance activities and reference material verifications;

h) any damage, malfunction, modification or repair to the equipment;

i) date received and date placed into service (if available); and

j) condition when received, if available (new, used, reconditioned).

See the ETI Equipment Log for specific equipment information.

20.2 Support Equipment

SUPPORT EQUIPMENT includes, but is not limited to: balances, ovens, refrigerators, freezers, incubators, water baths, temperature measuring devices, volumetric dispensing devices, and thermal/pressure sample preparation devices.

Policy
All support equipment is maintained in proper working order and records are kept of all repair and maintenance activities, including service calls.

Procedure
All raw data records are retained to document equipment performance. These records include logbooks, data sheets, or equipment computer files.

All support equipment is calibrated or verified annually over the entire range of use using NIST traceable references where available. The results the calibration of support equipment are within specifications or (1) the equipment is removed from service until repaired, or (2) records are maintained of correction factors required to correct all measurements.

Support equipment such as balances, ovens, refrigerators, freezers, and water baths are checked with a NIST traceable reference if available, each day prior to use, to ensure they are operating within the expected range for the application for which the equipment is to be used.

Mechanical volumetric dispensing equipment, including burettes (except Class A glassware), is checked for accuracy quarterly.

Glass micro-liter syringes have a certificate attesting to the established accuracy. If the certificate of accuracy for glass micro-liter syringes is not available, the accuracy of the syringe is demonstrated upon receipt and documented.

Acceptance criteria for support equipment are listed on the respective support equipment logs.

20.2.1 Support Equipment Maintenance

Regular maintenance of support equipment, such as balances and fume hoods is conducted at least annually.

ETI contracts planned maintenance of measuring equipment such as thermometers, balances, and weights.

Maintenance on other support equipment, such as ovens, refrigerators, and thermometers is conducted on an as needed basis.

Records of maintenance to support equipment are documented in Instrument Maintenance Logs..

20.2.2 Support Equipment Calibration

Calibration requirements for analytical support equipment are found in the table below. For analytical instrumentation, the calibration requirements are found in the method specific SOPs.

Table 20.2 Calibration And Maintenance

Instrument	Activity	Frequency	Documentation
Balance	1. Clean 2. Check alignment 3. Service Contract	1. Before use 2. Before use 3. Annually	Worksheet/log book Post annual service date on balance
ASTM Class 1Weights	1. Only use for the intended purpose 2. Use plastic forceps to handle 3. Keep in case 4. Re-calibrate	Once every year	Keep certificate
Thermometers: 1. Glass and electronic 2. Dial thermometers	Service Contract	1. Annually for glass and electronic	Keep certificate
pH electrometers	Calibration: 1. pH buffer aliquot are used only once 2. Buffers used for calibration will bracket the pH of the media, reagent, or sample tested.	Before use	Logbook
pH probe	Maintenance: Use manufacturer's specifications	As needed	Maintenance Logbook
Spectrophotometer.	Maintenance: Use manufacturer's specifications	As needed	Maintenance Logbook
Automatic or digital type pipettes	Calibrate for accuracy and precision using reagent water and analytical balance	Quarterly	Logbook
Refrigerators, Freezers, and BOD incubators	1. Thermometers are immersed in liquid to the appropriate immersion line 2. The thermometers are graduated in increments of 1°C or less	Temperatures are recorded each day in use	Worksheet
Microbiological incubators, and water baths	1. Thermometers in each unit are immersed in liquid to the appropriate immersion line 2. The thermometers will be graduated in increments of 0.5°C (0.2°C increments for tests which are incubated at 44.5°C) or less	Temperature of incubators and water baths will be recorded twice a day for each day in use with readings separated by at least four hours	Worksheet
DO electrometer	Calibrate as specified in SOP	Before use	Worksheet/log book
DO probe	Maintenance as specify by manufacturer	As needed	Worksheet/log book

20.3 Analytical Equipment

20.3.1 Maintenance for Analytical Equipment

Policy
All equipment is properly maintained, inspected, and cleaned.

Procedure
Maintenance of analytical instruments and other equipment may include regularly scheduled preventive maintenance or maintenance on an as-needed basis due to instrument malfunction and is documented in Instrument Maintenance Logs, which become part of ETI's permanent records.

20.3.2 Initial Instrument Calibration

Initial instrument calibration and continuing instrument calibration verification are an important part of ensuring data of known and documented quality. If more stringent calibration requirements are included in a mandated method or by regulation, those calibration requirements override any requirements outlined here or in laboratory SOPs. Generally, instrument calibrations are provided in test methods.

Policy
All initial instrument calibrations are verified with a standard obtained from a second source traceable to a national standard when commercially available. If a second source is not available, a standard prepared from a separate lot may be used as long as the manufacturer can demonstrate the lot was prepared independently from other lots purchased.

Policy
If the reference or mandated method does not specify the number of calibration standards to use, the minimum number of calibration standards is five, not including blanks or a zero standard.

Policy
Any samples that are analyzed after an unacceptable initial calibration are re-analyzed or the data are reported with qualifiers, appropriate to the scope of the unacceptable condition.

Policy
Quantitation is always determined from the initial calibration unless the test method or applicable regulations require quantitation from the continuing calibration.

Policy
The lowest calibration standard is the lowest concentration for which quantitative results can be reported without qualification. The lowest calibration standard is equal to the Limit of Quantitation and is greater than the limit of detection.

Policy
The highest calibration standard is the highest concentration for which quantitative results can be reported.

Policy

Data reported that are greater than the highest calibration standard without dilution are considered to be an estimate and are reported with a qualifier code and explained in the case narrative.

Policy

All calibrations are peer reviewed before data is reported using the respective calibration. The review process is documented using the curve review form.

Procedure

Initial instrument calibration includes calculations, integrations, acceptance criteria, and associated statistics referenced in the test method SOP.

When initial instrument calibration procedures are referenced in the test method, the referenced material is retained by the laboratory and are available for review.

Sufficient raw data records are collected to allow reconstruction of the initial instrument calibration. These include, at a minimum, calibration date, test method, instrument, analysis date, analyte names, analysts signature or initials, concentration and response, calibration curve or response factor, or unique equation or coefficient used to reduce instrument responses to concentration.
Calibration date and expiration date (when recalibration is due) is recorded for equipment requiring calibration, where practicable.

Acceptance criteria are listed in the method specific SOP. Such criteria are appropriate to the calibration technique employed.

Corrective actions are performed when the initial calibration results are outside acceptance criteria. Calibration points are not dropped from the middle of the curve unless the cause is determined and documented. If the cause cannot be determined, the calibration curve is re-prepared. If the low or high calibration point is dropped from the curve, the working curve is adjusted and sample results outside the curve are qualified.

In the event that an interior calibration point fails for one or more target analytes, the calibration point in question may be reprepared and reanalyzed <u>once</u>. In this instance all the target analytes must be replaced with the reanalyzed standard values.

Results that are less than the lower calibration standard are considered to have increased uncertainty, and are either reported with a qualifier code and/or explained in the case narrative.

Results that are greater than the highest calibration standard are either diluted to within the calibration range, or considered to be an estimate; and are reported with a qualifier code and/or explained in the case narrative.

For instrumentation where single point calibration is recommended by manufacturer's instructions, such as with some ICP and ICP/MS technologies (with a zero and single point calibration), the following apply:

a) For single point plus zero blank calibrations, the zero point and the single point standard are analyzed prior to the analysis of samples, and the linear range of the instrument established by analyzing a series of standards, one of which is at the lowest quantitation level.Zero blank and single point calibration standards are analyzed with each analytical batch for methods where they are specified.

c) A standard corresponding to the limit of quantitation is analyzed with each analytical batch and must meet established acceptance criteria when using single point plus zero blank calibrations.The linearity of single point plus zero blank calibrations is verified at a frequency established by the method or the manufacturer.

20.3.3 Continuing Instrument Calibration

Policy
The validity of the initial calibration is verified prior to sample analysis by use of a continuing instrument calibration verification (CCV) standard.

Policy
Corrective action is initiated for continuing instrument calibration verification results that are outside of acceptance criteria.

A preparation batch is composed of one (1) to twenty (20) environmental samples of the same quality systems matrix, meeting the above mentioned criteria and with a maximum time between the start of processing of the first and last sample in the batch to be twenty-four (24) hours.

An analytical batch is composed of prepared environmental samples (extracts, digestates or concentrates) which are analyzed together as a group. An analytical batch can include prepared samples originating from various quality system matrices and can exceed twenty (20) samples.

Procedure
Continuing instrument calibration verification is performed at the beginning and end of each analytical batch, except for instances when an internal standard is used. For methods employing internal standards, only one verification is performed at the beginning of the analytical batch.

Continuing instrument calibration verification is performed whenever it is expected that the analytical system may be out of calibration or might not meet verification acceptance criteria.

Continuing instrument calibration verification is performed when the time period for calibration or the most recent calibration verification has expired.

Continuing instrument calibration verification is performed for all analytical systems that have a calibration verification requirement.

Calibration is verified for each compound, element, or other discrete chemical species.

The calculations and associated statistics for continuing instrument calibration are included or referenced in the test method SOP.

Sufficient raw data records are retained to allow reconstruction of the continuing instrument calibration verification. Continuing instrument calibration verification records connect the continuing verification date to the initial instrument calibration.

See the method specific SOP for continuing instrument calibration verification acceptance criteria.

20.3.4 Unacceptable Continuing Instrument Calibration Verifications

If routine corrective action for continuing instrument calibration verification fails to produce a second consecutive (immediate) calibration verification within acceptance criteria, then a new calibration is performed or acceptable performance is demonstrated after corrective action with two consecutive calibration verifications.

For any samples analyzed on a system with an unacceptable calibration, some results may be useable if qualified and under the following conditions:

a) If the acceptance criteria are exceeded high (high bias) and the associated samples are below detection, then those sample results that are non-detects may be reported as non-detects.

b) If the acceptance criteria are exceeded low (low bias) and there are samples that exceed the maximum regulatory limit, then those exceeding the regulatory limit may be reported.

SECTION 21 – MEASUREMENT TRACEABILITY

Measurement quality assurance comes in part from traceability of standards to certified materials.

POLICY
All equipment used that affects the quality of test results are calibrated prior to use and on a continuing basis. These calibrations are traceable to national standards of measurement where available.

POLICY
Measurements from laboratory equipment provide the uncertainty required by test method or client.

POLICY
If traceability of measurements to SI units is not possible or not relevant, evidence for correlation of results through inter-laboratory comparisons, proficiency testing, or independent analysis is provided.

PROCEDURE
All equipment that affects the quality of test results are calibrated according to the minimum frequency suggested by the manufacturer, by regulation, by method, or as needed.

Clients can verify that required uncertainty is achieved by reviewing the internal quality control data, if requested.

21.1 Reference Standards

REFERENCE STANDARDS are standards of the highest quality available at a given location, from which measurements are derived.

Policy
Reference Standards, such as ASTM Class 1 weights, are used for calibration only and for no other purpose unless it is shown that their performance as reference standards will not be invalidated.

Procedure
Reference standards, such as ASTM Class 1 weights, are calibrated by an entity that can provide traceability to national or international standards.
The following reference standards are sent out to be calibrated to a national standard:

a) Class 1 weights are sent out for calibration every year.
b) Reference thermometers are calibrated every year.

21.2 Reference Materials

REFERENCE MATERIALS are substances that have concentrations that are sufficiently well established to use for calibration or as a frame of reference.

Policy

Reference materials, where commercially available, are traceable to national standards of measurement, or to Certified Reference Materials, usually by a Certificate of Analysis.

Policy
Internal reference materials, such as working standards or intermediate stock solutions, are checked as far as technically and economically possible.

Procedure
Purchased Reference Materials require a Certificate of Analysis where available. Otherwise, purchased reference materials are verified by application to a certified reference material, inter-laboratory comparison, and/or demonstration of capability.

Internal Reference Materials, such as working standards and intermediate stock solutions, are checked with inter-laboratory comparison studies, independent analysis, demonstration of capability, or proficiency tests

a) Internal thermometers are verified annually.
b) Weights used to evaluate balances are verified annually.

21.3 Transport and Storage of Reference Standards and Materials

Policy
ETI handles and transports reference standards and materials in a way that protects their integrity.

Procedure
Reference standard and material integrity is protected by separation from incompatible materials and/or minimizing exposure to degrading environments or materials.

Reference standards and materials are stored according to manufacturer's recommendations and separately from working standards or samples.

21.4 Labeling of Reference Standards, Reagents, and Materials

Policy
Reference standards and materials are tracked from purchase, receipt, and storage through disposal.

Policy
Expiration dates can be extended if the reference standard or material's integrity is verified. This verification can be made with a second source standard which is not expired or through manufacturers continuing ongoing stability study.

Policy
Reagent quality is verified during routine blank analyses.

Procedure
Records for all standards, reagents, reference materials, and media include:

1. the manufacturer/vendor name (or traceability to purchased stocks or neat compounds)
2. the manufacturer's Certificate of Analysis or purity (if supplied)
3. the date of receipt
4. reference to the method of preparation
5. date of preparation
6. recommended storage conditions
7. an expiration date after which the material shall not be used (unless its reliability is verified by the laboratory). It may be documented elsewhere if referenced.
8. preparer's initials (if prepared)

In methods where the purity of reagents is not specified, analytical reaqent grade is used. If the purity is specified, that is the minimum acceptable grade. Purity is verified and documented according to Section 9, Purchasing, Services, and Supplies.

All containers of standards, reagents, or materials, whether original or prepared, are labeled with an expiration date.

All containers of prepared standards and reference materials have a preparation date and unique identifier assigned by the LIMS. .

Standard preparation records are kept in the LIMS and allow for traceability to purchased stocks or neat compounds, reference to the method of preparation, date of preparation, expiration date, and preparer's initials.

Prepared reagents are verified to meet the requirements of the test method through routine quality control measures.

SECTION 22 – SAMPLE MANAGEMENT

POLICY

ETI's sample management plan protects both our clients as well as the laboratory itself.

22.1 Sample Receipt

Policy
Laboratory management ensures all acceptance criteria are verified and logged into LIMS and are properly labeled and stored.

Procedure
When samples are received at ETI, their condition is documented in the LIMS system, they are given unique identifiers, and they are logged into the sample tracking system.

22.2 Sample Acceptance

Policy
The minimum conditions a sample must meet on receipt are: Temperature, pH, preservative type, bottle type, sample integrity, holding time, and documentation (Sample ID, date and time of collection, collector's name, preservation type, sample type, and comments). See section 25.5 of this document for the ETI Sample Acceptance Policy which is made available to all clientele including sample collection personnel.

If these conditions are not met, the client is contacted prior to any further processing and correspondence is documented on the sample receipt form. If there is a chance, due to the inability to make contact with clientele, the holding times of samples will not be met, ETI will proceed with the analysis to meet holding time requirements and continue trying to make successful contact.

Procedure
The laboratory checks samples for the conditions above, where appropriate, to evaluate sample acceptance.

The following preservation checks are performed and documented upon receipt:

Thermal preservation:

a) For samples that require preservation at ≤6 °C, the acceptable range is "from just above freezing to 6 °C".
b) Samples that are delivered to the lab the same day as they are collected are likely not to have reached a fully chilled temperature. This is acceptable if there is evidence that chilling has begun.
c) Record on the receipt form if ice is present and the temperature.

Chlorine checks:

d) Microbiological samples from chlorinated water systems do not require a chlorine check if:

- Sufficient sodium thiosulfate is present (to neutralize 15 mg/L chlorine for wastewater).
- One container from each batch of containers is checked for efficacy of the sodium thiosulfate for 15 mg/L chlorine for wastewater.
- Chlorine residual is checked in the field and documented.

pH checks:

e) The pH of samples requiring acid/base preservation is checked upon sample receipt or upon initiation of analysis.

The sample acceptance policy is available to sample collection personnel, and emphasizes the need for use of water resistant ink, use of appropriate containers, adherence to holding times, sample volume requirements, and what to do with compromised samples.

Any forms submitted with samples are maintained in the order file.

If the checks performed upon sample receipt indicate the criteria are not met, then 1) the sample is rejected as agreed with the client, 2) the decision to proceed is documented and agreed upon with the client, 3) the condition is noted on the Chain of Custody form and/or sample receipt form, and 4) the data are qualified in the report.

22.3 Sample Identification

Policy
Samples, including subsamples, extracts, and digestates, are uniquely identified in a permanent chronological record (such as a sample receipt log book or database) to prevent mix-up and to document receipt of all sample containers. This unique identification number accompanies the sample and all associated documentation, sample preparation, analysis, and remains intact through sample disposal.

Procedure
Samples are assigned sequential numbers that reference more detailed information kept in the Chain of Custody binder located in the main hallway.

The following information is collected in the order file.

a) Client or project name
b) Date and time of sampling
c) Date and time of receipt at lab
d) Unique laboratory identification number
e) Unique field identification number (may be same as lab #)
f) Initials of recorder
g) Analyses requested
h) Comments regarding rejection (if any).

22.4 Sample Storage

Procedure
Storage conditions are monitored for any required criteria, verified, and the verification recorded in a log including continuous temperature monitoring with data loggers. The data from the continuous temperature data loggers must be downloaded and saved to the server every day following a day where temperatures were not recorded manually to ensure that temperatures were within compliance. Samples are stored in accordance with the same criteria as mentioned in section 22.2 a) and b). All thermometers and data loggers should be placed in the appropriate media to achieve accurate temperatures (example: sand, water, glycol, etc.).
Samples are held secure, as required. Samples are stored apart from standards, reagents, food or potentially contaminating sources, and such that cross-contamination is minimized. All portions of samples, including extracts, digestates, leachates, or any product of the sample is maintained according to the required conditions.

22.5 Sample Disposal

Policy
Samples are disposed of according to Federal, State and local regulations. Procedures are available for the disposal of samples, digestates, leachates, and extracts.

Procedure
Non-hazardous aqueous samples are disposed of in the sanitary sewer system. Solid samples are disposed of in the solid waste drum. Non-aqueous liquids are disposed of in the non-aqueous liquid drum. Non-hazardous digestates are disposed of in the sanitary sewer system. Leachates are disposed of in the sanitary sewer system. Extracts are disposed of in the solvent vial waste drum. Hazardous aqueous samples and digestates, as determined by flagging capabilities in the LIMS system, are segregated and combined. This combined waste is then tested and if it exceeds any of the TCLP limits, it is treated as hazardous waste.

Samples submitted to the laboratory with "Hold" status will be retained for 30 days from the date of receipt unless otherwise requested by the client.

22.6 Sample Transport

Policy
Samples that are transported under the responsibility of ETI, where necessary, are done so safely and according to storage conditions. This includes moving bottles within the laboratory. Specific safety operations are addressed outside of this document.

22.7 Sampling Records

Policy
Sampling plans are based, whenever it is reasonable or requested by the client, on appropriate statistical sampling methods.

Sampling by ETI staff is done explicitly by the direction of the client or according to regulatory requirements. If the client requires deviations, additions, or exclusions from the documented sampling procedure, these deviations are recorded in detail with the associated logbooks and in all documents containing environmental test results. These deviations are communicated to the appropriate personnel.

Test method SOPs direct analysts and technicians in the correct procedure for sub-sampling to ensure validity of environmental tests and calibration results.

Sub-sampling within the laboratory is performed according to test method SOPs and the Sub-sampling SOP.

Relevant sampling data are recorded, including, 1)the sampling procedure used, 2) the identification of the sampler, 3) environmental conditions (if relevant), 4) the sampling location, and 5) the statistics upon which the sampling procedures are based.

SECTION 23 – QUALITY OF TEST RESULTS

23.1 Essential Quality Control Procedures

Policy
All essential quality control elements are collected and assessed on a continuing basis.

Policy
The qualities of test results are recorded in such a way that trends are detectable, and where practicable, are statistically evaluated.

ETI utilizes LIMS to keep track of these values and statistical evaluations can be generated upon request. ETI updates control limits on a bi-annual basis. This happens in January and July. Both are completed by the end of the month respectively. The process of generating, updating, evaluating and storing the control limits is described in the SOP for Control Chart Generation.

Policy
For test methods that do not provide acceptance criteria for an essential quality control element or where no regulatory criteria exist, acceptance criteria are developed. Control limits are developed using the mean, plus or minus 3 standard deviations; or static limits such as +/- 20 percent. These limits can be found in the method specific SOP and/or SOP for Quality Control.

Policy
The quality control procedures specified in test methods are followed by laboratory personnel. The most stringent of control procedures is used in cases where multiple controls are offered. If it is not clear which is the most stringent, that mandated by test method or regulation is followed.

Procedure
To monitor the validity of environmental tests performed, review includes any one or combination of the techniques below:

a) use of certified reference materials or cultures and/or internal quality control using secondary reference materials;
b) participation in proficiency testing programs;
c) replicate testing using the same or different methods;
d) retesting of retained samples; and/or
e) correlation of results for different characteristics of a sample.

Written procedures to monitor quality controls including acceptance criteria are located in the test method SOPs, except where noted, and include such procedures as:

a) use of laboratory control samples and blanks to serve as positive and negative controls for chemistry methods;
b) use of laboratory control samples to monitor test variability of laboratory results;

c) use of calibrations, continuing calibrations, certified reference materials and/or PT samples to monitor accuracy of the test method;

d) measures to monitor test method capability, such as limit of detection, limit of quantitation, and/or range of test applicability, such as linearity;

e) use of regression analysis, internal/external standards, or statistical analysis to reduce raw data to final results;

f) use of reagents and standards of appropriate quality;

g) procedures to ensure the selectivity of the test method;

h) measures to assure constant and consistent test conditions, such as temperature, humidity, rotation speed, etc., when required by test method;

i) use of sterility checks for equipment, media and dilution water for microbiology; and

j) use of positive and negative culture controls for microbiology.

23.2 Internal Quality Control Practices

Analytical data generated with QC samples that fall within prescribed acceptance limits indicate the test method is IN CONTROL.

QC samples that fall outside QC limits indicate the test method is OUT OF CONTROL (non-conforming) and that corrective action is required or that the data are qualified.

Policy
Detailed QC procedures and QC limits are included in text method standard operating procedures (SOPs), or where unspecified in the SOPs, are detailed elsewhere.

Policy
All QC measures are assessed and evaluated on an on-going basis, so that trends are detected.

ProcedureThe following general controls are used:
Positive and Negative Controls such as:

a) Blanks (negative)

b) Laboratory control sample (positive)

c) Sterility checks and control cultures (positive and negative).

Selectivity is assured through:

a) absolute and relative retention times in chromatographic analyses;

b) two-column confirmation when using non-specific detectors;

c) use of acceptance criteria for mass-spectral tuning (found in test method SOPs);

d) use of the correct method according to its scope assessed during method validation; and

e) use of reference cultures (positive and negative) from a recognized manufacturer (where applicable).

Consistency, Variability, Repeatability, and Accuracy are assured through:

a) proper installation and operation of instruments according to manufacturer's recommendations or according to the processes used during method validation;

b) monitoring and controlling environmental conditions (temperature, access, proximity to potential contaminants);
c) selection and use of reagents and standards of appropriate quality; and
d) cleaning glassware appropriate to the level required by the analysis. Cleaning procedures not provided in test method SOPs are provided in a separate SOP.
e) following SOPs and documenting any deviation, assessing for impact, and treating data appropriately;
f) testing to define the variability and/or repeatability of the laboratory results, such as replicates;
g) use of measures to assure the accuracy of the test method, including calibration and/or continuing calibrations, use of certified reference materials, proficiency test samples, or other measures;
h) use of duplicate plate counts on positive samples (microbiology only).

Acceptance or rejection criteria are created according to laboratory policy where no method or regulatory criteria exist. Acceptance criteria define the boundary for the appropriate response from laboratory personnel, such as corrective action, reporting with qualifiers, reanalysis, review, and others.

Test Method Capability is assured through:

a) establishment of the limit of detection where appropriate;
b) establishment of the limit of quantitation or reporting level; and/or
c) establishment of the range of applicability such as linearity;

Data reduction is assured to be accurate by:

a) selection of appropriate formulae to reduce raw data to final results such as regression;
b) periodic review of data reduction processes to assure applicability;
c) microbiological calculations, data reduction, and statistical interpretations specified by each test method.

The following tables summarize the key elements of a quality control system for a laboratory performing chemistry and microbiology testing.

Table 23.2-1 Essential Quality Control Elements for Chemistry			
Item	**Frequency**	**Acceptance Criteria**	**Corrective action**
Negative Control (Method Blank)	1/batch	Method specific or reporting limit	Qualify data and take corrective action
Positive Control (Laboratory Control Sample)	1/batch	Method specific or determined by laboratory	Reprocess, reanalyze, or qualify data.
Matrix Spike; Matrix Spike Duplicates	Per method requirement	Method specific or determined by laboratory	Corrective action and/or qualify data.
Surrogate spikes	Per method requirement	Method specific or determined by laboratory	Corrective action and/or qualify data
Matrix Duplicates	Per method requirement	Method specific or determined by laboratory	Corrective action and/or qualify data
Continuing Calibration Verification	Per method requirement	Method specific or determined by the laboratory	Reanalyze standard immediately; Corrective action
Initial calibration Verification	Start of each analytical run	Method specific or determined by laboratory	Reanalyze standard immediately; Corrective action

Table 23.2-2 Essential Quality Control Requirements for Microbiology – All Methods			
Item	**Frequency**	**Acceptance Criteria**	**Corrective action**
Sterility blank	Each lot of media prior to first use	No growth	Investigate cause
Sterility check containers	One container (bottle) for each lot or batch sterilized (NSGM)	No growth	Investigate cause
Sterility check dilution water	One per batch of dilution water (NSGM)	No growth	Investigate cause
Positive control[1]	Each lot is tested by manufacturer for positive control.		
Negative control[1]	Each lot is tested by manufacturer for negative control.		
Duplicate colony counts (For numeric results only)	Monthly on one positive sample for each month performed.	Same analyst <5% difference between counts Two analysts <10% difference between counts	Investigate cause Qualify data
1) Microorganisms may be single use preparations or cultures maintained by documented procedures that demonstrate the continued purity and viability of the organism.			

Table 23.2-3 Essential Quality Control Requirements for Microbiology – Filtration Methods Only			
Item	**Frequency**	**Acceptance Criteria**	**Corrective action**
Sterility blank media	Each lot of media prior to first use	No growth	Investigate cause
Sterility check equipment	Beginning of each run - 1 for every 10 samples -	No growth	Investigate cause Qualify data
Sterility check filters	One filter for each new lot of membrane filters (NSGM)	No growth	Investigate cause
Target organism verification (D.3.4.b)	Method specific	Confirmation of reaction	Investigate cause

Table 23.2-4 Essential Quality Control Requirements for Microbiology – Pour Plate Methods Only			
Item	**Frequency**	**Acceptance Criteria**	**Corrective action**
Sterility blank media	Each lot of media prior to first use minimum one plate per batch	1 col/plate	Investigate cause

23.3 Method Blanks

Policy
Contaminated blanks are identified according to the acceptance limits in the test method SOPs or laboratory documentation.
Policy
Samples associated with a contaminated blank are evaluated as to the appropriate corrective action for the samples (e.g. reprocessing or data qualifying codes).

Procedure
ETI identifies a blank as contaminated when analyte results are greater than the reporting limit AND greater than 1/10 of that found in any sample, or where the contamination affects the sample results according to test method requirements or client objectives.

When a blank is determined to be contaminated, the cause must be investigated and measures taken to minimize or eliminate the problem.

Data that are unaffected by the blank contamination (non-detects or other analytes) are reported unqualified.

Sample data that are suspect due to the presence of a contaminated blank are reanalyzed or qualified.

23.4 Laboratory Control Samples

LABORATORY CONTROL SAMPLES (LCS) are prepared from analyte free water, and spiked with verified and known amounts of analytes for the purpose of establishing precision or bias measurements.

Policy
Laboratory control samples are analyzed at a frequency mandated by method, regulation, or client request, whichever is more stringent.
Procedure
The results of laboratory control samples (LCS) are calculated in percent recovery or other appropriate statistical technique that allows comparison to established acceptance criteria. The laboratory documents or references the calculation in the test method SOPs.

The individual LCS is compared to the acceptance criteria as published in the mandated test method, or where there are no established criteria, the laboratory established limits.

23.5 Matrix Spikes and Matrix Spike Duplicates

MATRIX SPIKES (MS and MSD [duplicates]) are environmental samples fortified with a known amount of analyte to help assess the affect of the matrix on method performance.

Policy
The MS/MSD results are used to help assess precision and the effect of the sample matrix on method performance.

Procedure
The laboratory procedure for MS/MSD includes spiking appropriate analytes at appropriate concentrations, calculating percent recoveries and relative percent difference (RPD), and evaluating and reporting the results.

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicates (LCSDs) will be substituted for MS/MSDs when insufficient sample material is provided to prepare MS / MSD samples.

See the SOP for Data import and entry into LIMS for MS/MSD reporting and qualifying criteria.

23.6 Surrogate Spikes

SURROGATES are substances with chemical properties and behaviors similar to the analytes of interest used to assess method performance in individual samples.

Policy
Surrogates are added to all samples (in test methods where surrogate use is appropriate) prior to sample preparation or extraction.

Procedure
Surrogate recovery results are compared to the acceptance criteria as published in the mandated test method.

Where there are no established criteria, the laboratory uses static +/- 20% for waters and +/- 30% for solids as surrogate control limits.

For surrogate results outside established criteria, data are evaluated to determine the impact. Corrective actions include reanalysis, qualification of data, and/or client discussion as appropriate.

23.7 Proficiency Test Samples or Interlaboratory Comparisons

Policy
ETI participates in proficiency test (PT) samples twice per year.

Policy
ETI institutes corrective action procedures for failed PT samples.

Policy
ETI does not share PT samples with other laboratories, does not communicate with other laboratories regarding current PT sample results, and does not attempt to obtain the assigned value of any PT sample from the PT provider.

Procedure
Proficiency Testing (PT) or Proficiency Evaluation (PE) samples are treated as typical samples in the normal production process where possible, including the same preparation, calibration, quality control and acceptance criteria, sequence of analytical steps, number of replicates, and sample log-in. PT samples are not analyzed multiple times unless routine environmental samples are analyzed multiple times. Proficiency test results and all associated raw data is filed and maintained by the Technical Director.

23.8 Data Review

Policy
The laboratory reviews all data generated in the laboratory for compliance with method, laboratory and, where appropriate, client requirements.

Policy
All data review is documented and retained for the required period of time.
ProcedureInitially, the analyst reviews data for acceptability of quality control measures and accuracy of the final result(s).
After the initial review, data is entered into the LIMS by either electronic data transfer or manually. After data has been entered into LIMS, a second reviewer considers all manual transfers and calculations of data in detail and spot checks all electronic transfers of data.
Final reports are compared to raw data either directly or through several review steps.
Logbooks or LIMS are used to record the information for traceability of the analysis.
The bench sheets include quality control measurements. Data are recorded on the logbooks promptly, at the time of the analysis, in ink.
Analysts review sample data and the QC information at the time of analysis and indicate if the QC parameters meet the acceptance criteria by marking the logbook.
The analyst's initials or signature along with date are inked on the logbook to indicate that they have performed the steps indicated and that the analysis meets acceptance criteria or has exceptions that are noted in the comments section of the bench sheet.
When the analyst has finished the primary analysis review, another person in the laboratory, designated by management, checks the logbook for the following: All required information has been recorded on the logbook. QC criteria have been met or exceptions recorded. Manual calculations are checked for accuracy.
When these checks have been completed, the reviewer's initials or signature along with the date are inked on the Log book to document the review has been performed.
Once the requested analysis on a specific project has been completed, the client project file is submitted to management for reporting. A member of management approves the work order and generates and reviews a PDF of the report using the reporting module in LIMS. A second member of management then reviews the PDF and all associated data and documents the secondary review by initialing and dating the bottom of the sample receipt form. Once this approval is complete, the report is

then issued to the respective client by one or more of the following: e-mail, fax, or hardcopy.

SECTION 24 – REPORTING OF RESULTS

POLICY
The result of each test carried out is reported accurately, clearly, unambiguously, and objectively and complies with all specific instructions contained in the test method.

POLICY
Data are reported without qualification if they are greater than the lowest calibration standard, lower than the highest calibration standard, and without compromised sample or method integrity.

24.1 Test Reports

Policy
The report format has been designed to accommodate each type of test performed and to minimize the potential for misunderstanding or misuse.

Procedure
Each test report generated contains the following information (unless not required by the client):

a) a title, such as Test Report or Analytical Results;
b) the name and address of the laboratory, the location of the laboratory if different from the address, and the phone number and name of a contact person;
c) unique identification of the test report, such as an order number, on each page and a pagination system that ensures that each page is recognized as part of the test report and a clear identification of the end of the report, such as 3 of 10;
d) the name and address of the client if applicable;
e) the identification of the test method used;
f) an unambiguous identification of the sample(s), including the client identification code;
g) the date of sample receipt when it is critical to the validity and application of the results, date and time of sample collection, dates the tests were performed, the time of sample preparation and analysis if the required holding time for either activity is less than or equal to 72 hours;
h) reference to the sampling plan and procedures used by the laboratory where these are relevant to the validity or application of the results;
i) the test results with failures identified, units of measurement, an indication of whether results are calculated on a dry weight or wet weight basis;
j) the name, function, and signature or an equivalent electronic identification of the person authorizing the test report, and the date of issue;
k) a statement to the effect that the results relate only to the samples;
l) at the laboratory's discretion, a statement that the report shall not be reproduced except in full without written approval of the laboratory;
m) certification that the results are in compliance with the ODEQ and/or NELAC/NELAP standards if accredited to be in compliance, or provide reasons and/or justification if they do not comply.

24.2 Supplemental Test Report Information

When necessary for interpretation of the results or when requested by the client, test reports include the following additional information:

a) deviations from, additions to, or exclusions from the test method, information on specific test conditions, such as environmental conditions, and any non-standard conditions that may have affected the quality of the results, and any information on the use and definitions of data qualifiers;
b) a statement of compliance/non-compliance when requirements of the quality systems are not met, including identification of test results that did not meet EPA sample acceptance requirements, such as holding time, preservation, etc.;
c) where applicable and when requested by the client, a statement on the estimated uncertainty of the measurement;
d) where appropriate and needed, opinions and interpretations
e) When opinions and interpretations are included, the basis upon which the opinions and interpretations are documented. Opinions and interpretations are clearly marked as such in the test report.
f) additional information which may be required by specific methods or client;
g) qualification of results with values outside the working range.

For test reports that contain the results of sampling, the following is provided if necessary for the interpretation of the results:

a) the date of sampling;
b) unambiguous identification of the material sampled;
c) the locations of the sampling, including diagrams, sketches, or photographs;
d) a reference to the sampling plan and procedures used;
e) details of any environmental conditions during sampling that may affect the interpretations of the test results;
f) any standard or other specification for the sampling method or procedure, and deviations, additions to or exclusions from the specification concerned.

24.3 Environmental Testing Obtained from Subcontractors

Test results obtained from test performed by subcontractors are clearly identified on the test report by subcontractor name and/or accreditation number.

The test results from subcontractors are reported in writing or electronically. A copy of the subcontractors report is to be made available to the client if requested.

A copy or original report from the subcontract laboratory is retained in the specific ETI order file.

24.4 Electronic Transmission of Results

Policy
All test results transmitted by telephone, fax, telex, e-mail, or other electronic means comply with the requirements of this *Quality Manual* and associated procedures to protect the confidentiality and proprietary rights of the client.

24.5 Amendments to Test Reports

Policy
Material amendments to a test report after it has been issued are made only in the form of another document or data transfer. All supplemental reports meet all the requirements for the initial report and the requirements of this *Quality Manual*.

Procedure
When a laboratory report must be revised, it is clearly identified as revised. This is Accomplished by adding the word "REVISED" into the work order memo tab within the reporting module of LIMS.

When it is necessary to issue a complete new report, the new report is uniquely identified and contains a reference to the original that it replaces.

SECTION 25 - APPENDICES

25.1 Scope of Analytical Testing

ETI's scope of analytical testing are shown on our accreditation certificate.

25.2 Job Descriptions Not Listed in Section 17.1

25.2.1 Sample Custodian

The sample custodian is responsible for determining acceptability of samples, sample receipt, login, distribution of samples throughout the laboratory, and other functions deemed necessary by management.

25.2.2 Organic Analyst

Organic analysts are responsible for collection of chromatographic data, calculations, review of data, entry of quality control and results in LIMS, and other functions deemed necessary by management. Minimum educational requirement for organic analysts is a four year science degree.

25.2.3 Metals Analyst

Metals analysts are responsible for collection of data, calculations, entry of quality control and results in LIMS, and other functions deemed necessary by management. Minimum educational requirement for metals analysts is a four year science degree.

25.2.4 Microbiology Analyst

Microbiology analysts are responsible for collection of data, calculations, entry of quality control and results in LIMS, and other functions deemed necessary by management. Minimum educational requirement for microbiology analysts is a four year science degree.

25.2.5 Wet Chemistry Analyst

Wet chemistry analysts are responsible for collection of data, calculations, entry of quality control and results in LIMS, and other functions deemed necessary by management. Minimum educational requirement for wet chemistry analysts is a four year science degree.

25.2.6 Analyst Assistant

Analyst assistants are responsible for collection of data and calculations under the supervision of a qualified analyst, and other functions deemed necessary by management.

25.2.7 Extraction Technician

Extraction technicians are responsible for setting up extractors, concentrating extracts, other sample preparatory techniques, and other functions deemed necessary by management.

25.3 Procedure for DOC & CDOC

25.3.1 DOC

A quality control sample is prepared using stock standards that are prepared independently from those used in instrument calibration.

The analyte(s) is diluted in a volume of clean quality system matrix sufficient to prepare four aliquots at the concentration specified, or if unspecified, to a concentration of 1-4 times the limit of quantitation.

At least four aliquots are prepared and analyzed according to the test method either concurrently or over a period of days.

Using all of the results, the mean recovery is calculated in the appropriate reporting units and the standard deviations of the population sample (in the same units) for each parameter of interest. When it is not possible to determine mean and standard deviations, such as for pass/fail and logarithmic values, the performance is assessed against established and documented criteria.

Compare the information from above to the corresponding acceptance criteria for precision and accuracy in the test method (if applicable) or in laboratory generated acceptance criteria (if there are not established mandatory criteria). If all parameters meet the acceptance criteria, the analysis of actual samples may begin. If any one of the parameters do not meet the acceptance criteria, the performance is unacceptable for that parameter.

When one or more of the tested parameters fail at least one of the acceptance criteria, the analyst must locate and correct the source of the problem and repeat the test for all parameters which failed to meet the acceptance criteria.

Acceptance criteria for each analyte is equal to ETI's laboratory control limits for the respective analyte, this must be passed for each of the four runs for the DOC determination.

Once the DOC is completed successfully, continuing DOC is demonstrated through the acceptable analysis of bi-annual proficiency samples.

For analyses which do not lend themselves to spiking with known amounts of analyte such as temperature, pH, microbiological testing, etc., and where not required by mandatory test method or regulation, the DOC consists of 4 samples analyzed in conjunction with an analyst approved by the Technical Director.

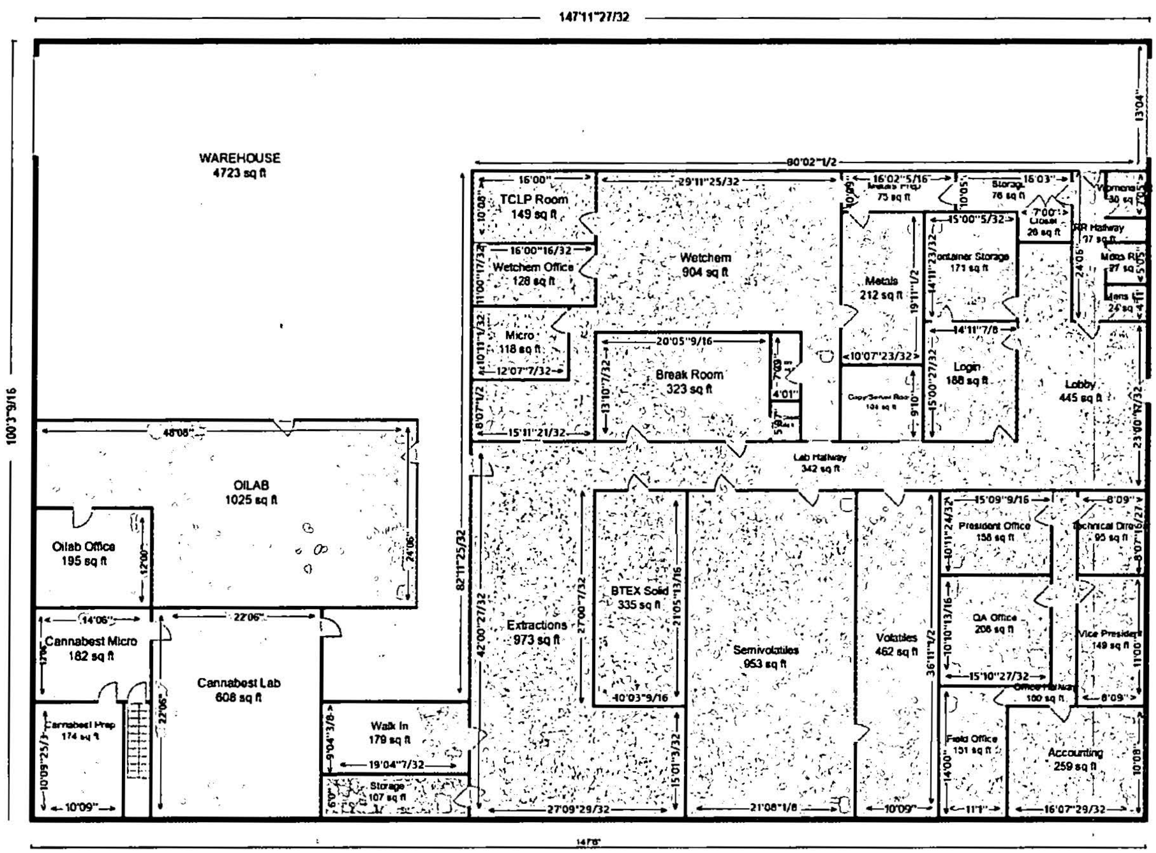
25.3.2 CDOC

In the instance there is one analyst within one department; bi-annual PT samples will be sufficient to demonstrate CDOCs. A passing PT will be sufficient for a passing CDOC.

For analysts who work in a work cell where multiple analysts are asked to perform the same analyses, CDOCs will be prepared and analyzed in conjunction with proficiency rounds. When one analyst from a work cell performs the preparation and analysis of a proficiency sample, all other members of the work cell are required to prepare and analyze four passing LCS replicates. Tracking to ensure these CDOCs are completed annually will be completed and monitored by the Technical Director.

25.4 Floor Plan

ETI-CBL-OIL Floorplan



25.5 ETI Sample Acceptance Policy

ENVIRONMENTAL
TESTING, INC.

Sample Acceptance Policy

Providing data that meets your project requirements is our top priority. Our sample receipt specialists begin evaluating your samples as soon as they arrive. Samples are checked for a variety of factors that may influence test results including appropriate containers, required, physical and/or chemical preservatives, amount of sample, and holding time constraints. This information is documented and included in your final report.

If conditions are discovered that may impact the validity of your test results, your samples will be placed on hold and you will be notified as soon as possible via email. Sample analysis will proceed once you acknowledge the potential issues and authorize us to continue via email or in writing.

The final data report will include flags, where appropriate, to indicate data that may have been impacted by the sampling process.

Holding Time Issues

Tests that have a short holding time (shorter than 48 hours) will be analyzed regardless of any issues noted during login to protect the integrity of the sample and the results will be flagged if applicable.

We will do our best to accommodate tests with holding times greater than 48 hours that are received with less than 72 hours of holding time remaining. However, the analysis may not be able to be completed within holding time. We will notify you if this is the case and proceed with the analysis as soon as possible without waiting on a response from you. Results will be flagged if applicable. *You will be billed for any test completed under either of these conditions.*

Sample Receipt Temperature

ETI is accredited to standards adopted in 2009 by the National Environmental Laboratory Accreditation Conference (NELAC) through participation in the National Environmental Laboratory Accreditation Program (NELAP). As part of our accreditation, we are required to document the temperature of all samples that require thermal preservation upon receipt. We will also document whether or not the samples are received on ice as evidence that the chilling process has started. For samples received on the same day they are collected, evidence that the cooling process has started is all that is required. All samples received on a later date should be received on ice at ≤ 6° C (approximately 43° F).

Sample Chain of Custody

Good sample chain of custody is also critical to data validity and should include sample identification, location, date and time of collection, sampler identification, information regarding preservation, sample type and any special instructions. All information should be recorded in indelible ink and any labels that are used should be durable (water resistant).

Sample Material for Quality Assurance / Quality Control

ETI maintains a quality assurance/quality control program to evaluate the data we generate. As part of this program, we routinely analyze sample duplicates and samples spiked with the analyte of interest (matrix spike and matrix spike duplicates). We rely on extra sample material provided by our clients to support this portion of our quality program. We would appreciate one set of triplicate samples for each batch of twenty samples that you collect. If you are willing to help us with this, just let us know and we will provide extra containers. This is especially important for aqueous samples for extractable organic analyses. These including TPH-DRO, Semi-Volatiles, Pesticides, Herbicides, and PCBs.

Resources

We are happy to provide bottle kits for your project at no additional cost when picked up at our office. We stock new containers that are traceable by lot number for all the tests that we offer. Certificates of analysis are available for these containers upon request. For complete traceability, we recommend that you record these lot numbers in your sampling records. If you need this information included with your final report, simply provide it along with your Chain of Custody and we will be happy to incorporate it.

Shipping options are available on request.

We can also provide training in proper sampling techniques. Just let us know what you need, and we will tailor a solution for you.

For more information, contact us by email at info@etilab.com or (405) 488-2400.

25.6 Required Time Frames for Corrective Actions

All corrective actions must be completed within a reasonable timeframe. ETI has established the following goals for completion.

- Corrective Actions for Internal Audits - 30 days.
- Corrective Actions for failed Proficiency Tests - 60 days.
- All other Corrective Actions - 30 days.

25.7 Changes From Previous Revision

- Changed the document identification fields to the SharePoint fields. Version 5.0 (the newest version) is equivalent to Revision 9 in the old numbering system.
- Revised the language relating to other laboratories located with ETI (4.1)
- Revised subcontract laboratory (8)
- Updated the report delivery process (15.1)
- Updated the DOC documentation process (19.1)
- Revised standard tracking process (21.4)
- New floor plan and sample acceptance policy
- Various grammatical corrections