Thomas Apartment

Thomas, OK

Owner: City of Thomas

Final Remediation Report

OKLAHOMA
Environmental
Quality

SITE CLEANUP ASSISTANCE PROGRAM

City performed sampling in September of 2021

- Asbestos and lead-based paint located in building
- Over 5200 sq.ft. of LBP wall and flooring removed
- 11 doors and windows with LBP removed
- Multiple ACM components removed
- Abatement completed in June of 2024 and plan to use space for future housing

Table of Contents

Deeds and Legal Documents

Hall & Rodolph
Attorneys at Law
P. O. Box 277
Clinton, Oklahoma

BOOK 299 PAGE 355

MANLY BLANKS

FORM NO. 290-AF

MANLY OFFICE SUPPLY CO.—PRINTERS—OKLA. CITY

(ORDER BY NUMBER)

This Space Reserved for Filing Stamp

WARRANTY DEED

Statutory Form---Individual

Know All Men by These Presents:

That Calvin L. Keller & Melruth Keller, Husband and Wife

of Custer County, State of Oklahoma, part ies of the first part, in consideration of the sum of Ten ($10.00) - DOLLARS in hand paid, the receipt of which is hereby acknowledged, does hereby Grant, Bargain, Sell and Convey unto The Town of Thomas, Oklahoma, a Corporation of Custer County, State of Oklahoma, part ies of the second part, the following described real property and premises situate in Custer County, State of Oklahoma, to-wit:

All of Lot 22 in Block 84, Original townsite of Thomas, Oklahoma, according to the recorded plat thereof EXCEPT AND SUBJECT TO: (a) Easement in and to stairway on east side of building, all as shown of record in Book 13 of Deeds page 66. (b) Contract and Conveyance of Second Floor of building on said lots as shown of record in Book 3 of Misc. at pages 21 and 22 and (c) Paty wall agreement as shown of record in Vol. 35 of Deeds Page 314.

Rel 5-29

State of Oklahoma, Custer County, ss. Filed March 13, 1974 10 A.M.
Recorded in Book 299, Page 355 M. S. DICK ESLICK, County Clerk
Grantor Grantee Numerical By Marie Hutchison Deputy

together with all the improvements thereon and the appurtenances thereunto belonging, and warrant the title to the same.

TO HAVE AND TO HOLD said described premises unto the said parties of the second part, their heirs and assigns forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and incumbrances of whatsoever nature.

Signed and delivered this 12th day of February, 1974

OKLAHOMA MAR 1 1974 $2.20 DOCUMENTARY M23.D.E1

OKLAHOMA MAR 1 1974 $3.30 DOCUMENTARY M.S.D.E4

Calvin L. Keller

Melruth Keller

STATE OF OKLAHOMA }
COUNTY OF Custer } SS:

INDIVIDUAL ACKNOWLEDGMENT
Oklahoma Form

Before me, the undersigned, a Notary Public in and for said County and State on this 12th day of February, 1974, personally appeared Calvin L. Keller and Melruth Keller, Husband and Wife

to me known to be the identical person s who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My commission expires 7-27-74

Bubba Moore Notary Public

129

This Intergovernmental Agreement (Agreement) between the Oklahoma Department of Environmental Quality (DEQ) and The City of Thomas Economic Development Authority (City) is for environmental cleanup services provided by DEQ for the Property located at 121 W. Broadway, Thomas, Oklahoma 73669, Custer County. The areas of responsibility and relationships presented herein provide the conceptual framework under which the project will be executed.

I. **STATUTORY AUTHORITY AND EFFECTIVE DATE:** This Agreement is authorized pursuant to and in accordance with the provisions of Title 27A Okla. Stat. (O.S.) § 2-3-201, 27A O.S. § 2-3-202, 74 O.S. § 581, and 74 O.S. § 1008. This Agreement shall begin on April 1st, 2024 or when executed by all parties whichever date occurs of the later and will continue through March 31st, 2025 or until completion of project or through an amendment whichever occurs first.

II. **ENVIRONMENTAL CLEANUP SERVICES:** The City has requested environmental cleanup assistance from DEQ. DEQ agrees to provide the environmental cleanup services outlined in the attached Statement of Work (**Exhibit "A"**) and the City agrees to these services.

III. **RESPONSIBILITIES OF ALL PARTIES:** The City and DEQ mutually agree that the responsibilities shall be as stated below:

1) City's Responsibilities: The City shall be responsible for the duties listed below and shall not hold DEQ responsible for any of the duties. Those duties shall include:
   a) Appoint a representative to serve as the central point of contact on matters relating to this Agreement and submit said representatives name and contact information to DEQ within ten (10) days of the effective date of this Agreement;
   b) Restrict occupant's use/presence in the facility during remediation, as requested. This could include but is not limited to removing equipment, vehicles and other items that may be in the way of cleanup activities;
   c) Attend routine update calls with DEQ during the remediation process; and
   d) Perform any continued operations and maintenance required to keep remedy protective. An Operations and Maintenance Plan will be provided by DEQ if necessary.
2) DEQ's Responsibilities: DEQ shall be responsible for the duties listed below and shall not hold the City responsible for any of the duties. Those duties shall include:
   a) Appoint a representative to serve as the central point of contact on matters relating to this Agreement and submit said representatives name and contact information to the City within ten (10) days of the effective date of this Agreement;
   b) Provide regular verbal progress reports via calls with the City;
   c) Manage work and cover costs associated with the environmental cleanup work outlined in the attached Statement of Work (**Exhibit "A"**);
   d) Supply the City with a final report of all DEQ activities within 90 days of completion of work.

IV. **ACCESS TO PROPERTY:** All access to property shall be enforced by the executed Environmental Access Permit that shall accompany this Agreement upon execution.

V. **PUBLIC INFORMATION:** The City is generally responsible for all public information. The City shall acknowledge the DEQ cleanup services outlined in this Agreement when making public statements regarding this building. The City will allow DEQ to place signs on the property during the environmental cleanup work. DEQ may make public announcements and respond to all inquiries relating to the environmental cleanup work in this Agreement. DEQ reserves the right to approve all press releases and publications where the agency is mentioned or included before publication. The agency shall provide a contact for publicity approval within ten (10) days of execution of the Agreement. The City shall have the agency's approval before using the DEQ logo or moving any DEQ signs the agency has placed. The City and DEQ shall give the other party advance notice before making any public statement regarding work contemplated, undertaken, or completed pursuant to this Agreement.

VI. **TERMINATION:** This Agreement is expressly contingent upon funding and shall terminate without penalty either in whole or in part if funds are not made available to DEQ. Either party may terminate this Agreement by giving written notice at least sixty (60) days prior to the desired date of cancellation.

VII. **ACCEPTANCE OF AGREEMENT**: The parties acknowledge and agree that they have read the Agreement and that they accept the responsibilities with which they are charged. The City agrees to comply with the building use restrictions during cleanup and understands that failure to comply with said restrictions or failure to adhere to the responsibilities enumerated in this Agreement may result in delayed remediation. This Agreement shall not affect any pre-existing or independent relationships or obligations between the parties. The City's Acceptance of this Agreement from DEQ constitutes acceptance of all current DEQ Purchasing terms and conditions. Terms and conditions are subject to change and may be found at https://www.deq.ok.gov/wp-content/uploads/deqmainresources/DEQ-Terms-and-Conditions.pdf

VIII. **UNAUTHORIZED OBLIGATION:** At no time during the performance of this Agreement shall the City have the authority to obligate DEQ for payment of any goods or services.

In witness whereof, this Agreement, consisting of four (4) pages has been executed and delivered effective as of the date first above written.

City of Thomas Economic Development Authority
PO Box 250
Thomas, OK, 73669

4/10/24

Authorized Representative Signature Date

Jeff Gose, Mayor

Authorized Representative Name, Title

Oklahoma Department of Environmental Quality
707 N. Robinson, P.O. Box 1677,
Oklahoma City, Oklahoma 73101-1677

Authorized Representative Signature Date

Authorized Representative Name, Title

Exhibit "A"
Statement of Work

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Environmental Access Permit

THIS PERMIT made and entered into by and between **City of Thomas Economic Development Authority** hereinafter called the PERMITOR, and the **DEPARTMENT OF ENVIRONMENTAL QUALITY**, hereinafter called the PERMITTEE.

WITNESSETH, PERMITTEE is hereby granted permission and authority to enter upon the following described property, situated in Okfuskee County, Oklahoma, hereinafter referred to as the "Property":

121 West Broadway, Thomas, Oklahoma 73669

Attached and incorporated by reference as Exhibit "A": Property Location Map

TERMS AND CONDITIONS OF PERMIT:

1. **TERM**: This Permit shall be for a period of 1 year beginning April 1, 2024, and ending March 31, 2025.

2. **USE OF PROPERTY**: PERMITTEE and its consults or contractors may enter upon said property for the performance of remedial activities, install, erect, operate, maintain, remove, and perform all work associated with said remedial activities. PERMITTEE and its consults and contractors shall have the right of ingress and egress, to and from said site across adjoining lands of the PERMITOR. PERMITOR and PERMITTEE acknowledge that all equipment and improvements of PERMITTEE to support the said operations shall be deemed personal property of PERMITTEE.

3. **MAINTENANCE**: PERMITTEE agrees that no other changes shall be made to the Property without prior written permission of the PERMITOR other than what is necessary for the purpose of the Permit.

4. **INDEMNIFICATION**: PERMITOR agrees on its behalf and that of any successors or assigns to hold harmless, defend and indemnify the PERMITTEE, its officers, agents, employees, representatives, successors, and assigns, from and against any and all losses, liabilities, expenses, claims, demands, injuries, damages, fines, penalties, costs or judgments, including, without limitation, attorney's fees and costs of any kind. Without waiving any defense or immunity, and subject to the Oklahoma Governmental Tort Claims Act, such indemnification shall exclude any such liability to the extent caused by the negligence or willful misconduct of the PERMITTEE, its officers, agents, employees, representatives, successors, and assigns while acting within the scope of their employment.

5. **NO WARRANTIES**: The PERMITTEE makes no representations or warranties of any kind in connection with this Permit. This Permit is subject to all existing conditions, restrictions, reservations, easements, servitudes and right of ways of record.

6. **ASSIGNMENT**: This Permit cannot be assigned in whole or in part without the written approval of the PERMITTEE.

7. **TERMINATION**: Either party may terminate this Permit, or any renewals of this Permit, by giving written notice at least sixty (60) days prior to the desired date of cancellation.

8. **APPLICABLE LAW**: This Permit shall supersede any and all previous agreements whether oral or written and shall be governed by the laws of the State of Oklahoma.

9. **NON-WAIVER**: Failure of either the PERMITOR or PERMITTEE to exercise any right given hereunder or to insist upon strict compliance with regard to any term, condition or covenant specified herein, shall not constitute a waiver of the PERMITOR or PERMITTEE'S right to exercise such right or to demand strict compliance with any term, condition or covenant under this Agreement.

10. **ENTIRE AGREEMENT**: This Permit constitutes the sole and entire agreement of the parties and is binding upon the PERMITOR and the PERMITTEE, their heirs successors, legal representatives and assigns.

PERMITOR: **City of Thomas Economic Development Authority**
(Type or Print)

By: [signature]
(Signature)

Jeff Gose, Mayor
(Print Name and Title)

Date: 4-10-24

PERMITTEE: **Oklahoma Department of Environmental Quality**

By: _____
(Signature)

_____
(Print Name)
Director of Support Services, Administrative Services Division

Date: _____

Exhibit "A"
Property Location Map

Inspection Reports

A & M Engineering and
Environmental Services, Inc.
Consulting - Design - Construction - Remediation

LIMITED ASBESTOS CONTAINING MATERIALS AND LEAD-BASED PAINT SURVEY

(City of Thomas Building, Christensen Building, Miller Building, and Brantwein Building)

CITY OF THOMAS

Thomas, Oklahoma

A & M Project Number 2518-0001

May 3, 2021

Prepared For:

MS. JENNIFER BILLY
THOMAS ECONOMIC DEVELOPMENT COORDINATOR
CITY OF THOMAS
POST OFFICE BOX 250
THOMAS, OKLAHOMA 73669

Email: thomasacoc@pldi.net
Phone: (580) 661-3685

A & M Engineering and Environmental Services, Inc.
Consulting - Design - Construction - Remediation

May 3, 2021

Ms. Jennifer Billy
Thomas Economic Development Coordinator
City of Thomas
Post Office Box 250
Thomas, Oklahoma 73669

Email: thomasacoc@pldi.net
Phone: (580) 661-3685

A & M Project Number 2518-0001

REF: Limited Asbestos Containing Materials and Lead-Based Paint Survey of the City of Thomas Building, Christensen Building, Miller Building, and Brantwein Building in the City of Thomas, Oklahoma.

Dear Mr. Moore:

A & M Engineering and Environmental Services, Inc. (A & M) performed a Limited Asbestos Containing Materials and Lead-Based Paint, Survey of the City of Thomas Building, Christensen Building, Miller Building, and Brantwein Building in the City of Thomas, Oklahoma on April 21, 2021. Please find enclosed our report providing the monitoring findings and recommendations.

Thank you for choosing A & M. If you have any questions, please feel free to contact us at (918) 665-6575 or via email.

Respectfully,
A & M Engineering and Environmental Services, Inc.

Jeffrey Jenkins
Senior Industrial Hygienist
jjenkins@aandmengineering.com

Justin Scott
Environmental Specialist
jscott@aandmengineering.com

Enclosure (1)

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1.0 EXECUTIVE SUMMARY

A & M Engineering and Environmental Services, Inc. (A & M) completed a Limited Asbestos Containing Materials and Lead-Based Paint Survey (Survey) of the City of Thomas Building, Christensen Building, Miller Building, and Brantwein Building in the City of Thomas, Oklahoma. The surveys were done in preparation of renovating the four spaces into apartments. The Survey was conducted on April 21, 2021.

The Survey to identify Asbestos Containing Materials (ACM) at the above referenced site was conducted in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Asbestos (40 CFR Part 61, Subpart M). The following is a summary of the asbestos findings:

No asbestos was present in the four (4) buildings second floors surveyed.

Lead Based Paint (LBP) regulations are provided by the United States Environmental Protection Agency (EPA), and Department of Housing and Urban Development (HUD). The Occupational Safety and Health Administration (OSHA) regulates lead from a worker exposure position. A &M conducted a survey to determine what lead hazards may be present. The following is a summary of the LBP findings:

Plaster Walls	All four (4) Buildings
Window Frames and doors	Thomas, Miller, Brantwein Buildings
Door Frames and Doors	Thomas, Miller, Brantwein Buildings
Stairwell Railing	Thomas Building
Fire door	Thomas Building

Based upon the findings and visual observations made during the survey, the following recommendations are provided:

LBP was identified in the plaster walls in all four (4) buildings. The window frames and windows in the City of Thomas Building, Brantwein Building, and Miller Building also tested positive for LBP.

All remediation activities need to be done using safe-lead practices to capture any debris and/or dust that is formed. Clearance lead testing needs to be conducted following remediation.

2.0 BUILDING DESCRIPTION

The building surveys were limited to the buildings second (2^{nd}) floors. Three (3) of the four buildings (4) second (2^{nd}) floors were vacant and used for storage. The fourth space is currently being used as an apartment. It was reported the four spaces had construction dates and square footages as follows:

- Building 1 – City of Thomas Building; 2200 square feet (SF) and constructed 1903
- Building 2 – Christensen Building; 2000 (SF) and constructed 1911
- Building 3 – Miller Building; 2000 (SF) and constructed 1905

- Building 4 – Brantwein Building; 2000 (SF) and constructed 1907

The buildings were constructed with a brick exterior and interior walls were of plaster construction. The Christiansen Building was reported to have had previous renovations started.

3.0 ASBESTOS

A & M completed a Pre-Demolition/Renovation Survey (Survey) on April 21, 2021 to identify Asbestos Containing Materials (ACM) at the above referenced site in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Asbestos (40 CFR Part 61, Subpart M). The following table summarizes the findings of this Survey:

Table 1 (below) provides a summary of the samples that were collected for asbestos analysis.

Table 1
Asbestos Sampling Results

Materials	Friable	Location(s) of the Homogeneous Material	Samples Collected	% Asbestos Content	Quantity	Condition
Brown Plaster w/ White Skim Coat - Paint	No	City of Thomas Building	5	ND	NQ	Fair
Brown Plaster w/ White Skim Coat – Plaster Topcoat				ND		
Brown Plaster w/ White Skim Coat – Plaster				ND		
Tan Vinyl Flooring – Sheet Flooring	No	City of Thomas Building	3	ND	NQ	Fair
Tan Vinyl Flooring – Fibrous Backing				ND		
Electrical Wiring cloth	No	City of Thomas Building	2	ND	NQ	Fair
Grey Mortar	No	City of Thomas Building	3	ND	NQ	Fair
Electrical Sheathing	No	City of Thomas Building	1	ND	NQ	Fair
Multi-colored Sheet Vinyl Flooring - Sheet Flooring	No	City of Thomas Building	3	ND	NQ	Fair
Multi-colored Sheet Vinyl Flooring - Fibrous Backing				**ND**		

White Sheet Vinyl Flooring – Sheet Flooring	No	City of Thomas Building	3	ND	NQ	Fair
White Sheet Vinyl Flooring – Fibrous Backing				ND		
Plaster w/ White Skim Coat - Paint	No	Brantwein Building	5	ND	NQ	Fair
Plaster w/ White Skim Coat – Plaster Topcoat				ND		
Plaster w/ White Skim Coat – Plaster				ND		
White Drywall - Paper	No	Miller Building	3	ND	NQ	Fair
White Drywall - Wallboard				ND		
Yellow sheet Vinyl Flooring – Sheet Flooring	No	Miller Building	**3**	ND	NQ	Fair
Yellow sheet Vinyl Flooring – Backing/Mastic				ND		
White Wallboard – White Coating	No	Miller Building	3	ND	NQ	Fair
White Wallboard – Fiberboard				ND		
White Wallboard – Brown mastic				ND		
Plaster w/ White Skim Coat - Paint	No	Christensen Building	7	ND	NQ	Fair
Plaster w/ White Skim Coat – Plaster Topcoat				ND		
Plaster w/ White Skim Coat – Plaster				ND		
Green Vinyl Tile – Yellow Mastic	No	Christensen Building	3	ND	NQ	Fair
Green Vinyl Tile – Sheet Flooring				ND		
Green Vinyl Tile – Backing/Mastic				ND		
White Drywall – Paint	No	Brantwein Building	3	ND	NQ	Fair
White Drywall - Paper				ND		

White Drywall – Wallboard material				ND		
NOTE: NO ROOF SAMPLES WERE OBTAINED. ALL OTHER BUILDING MATERIALS ARE CONSIDERED TO CONTAIN ASBESTOS UNTIL PROVEN OTHERWISE. SF: Square Feet; LF: Linear Feet; ND: None Detected; NQ: Not Quantified						

Sampling Strategy, Protocols and Limitations

Samples were collected in accordance with the Asbestos Hazard Emergency Response Act **(**AHERA) sampling protocol by Justin Scott, Oklahoma-licensed Asbestos Inspector #159757. A visual inspection of the building was conducted and Homogeneous Areas (HAs) of suspect ACM were identified and listed. Photographs of each Homogeneous area sampled are provided in Appendix B. A copy of asbestos licenses and certifications are provided in Appendix C.

A physical assessment was performed for each HA identified during the visual inspection. This physical assessment evaluated the condition (intact, damaged, or significantly damaged), friability, and potential for disturbance of each suspect ACM. "Friable Materials" are defined as those materials that can be crumbled or reduced to powder by hand pressure alone. Each suspect ACM was further classified into one of the following three (3) categories:

Surfacing Materials: Spray- or trowel-applied surfaces such as plaster ceilings and walls, fireproofing, textured paints, textured plasters, and spray-applied acoustical surfaces.

Thermal System Insulation: Insulation used to inhibit heat gain or loss on pipes, boilers, tanks, ducts, and other building components.

Miscellaneous Materials: Friable and non-friable materials that do not fit in any of the above two categories such as resilient floor covering, baseboards, mastics, adhesives, roofing materials, caulking, glazing, and siding.

Forty-seven (47) samples were collected from fourteen (14) HAs. Samples were collected, to the extent possible, from discrete locations that were identified to be removed during renovation or not readily visible. Samples were placed in uniquely marked, individual, airtight containers. Notations documenting each HA and each sample location were made at the time of the Survey. A site map documenting the sample locations and locations of positive ACM is attached in Appendix D.

Samples were shipped under chain-of-custody protocol to Cates Laboratories, a National Voluntary Laboratory Accreditation Program (NVLAP)- accredited laboratory, to be analyzed by Polarized Light Microscopy (PLM) according to US Environmental Protection Agency (EPA) Method 600/M4-82-020. Due to multiple layers in some samples, a total of One hundred fourteen (114) analyses were performed. A copy of Cates Laboratory' Report is provided in Appendix A. A copy of Cates Laboratories Accreditation is provided in Appendix C.

No roofing materials were sampled as part of this Survey.

4.0 LEAD-BASED PAINT

Lead Based Paint (LBP) regulations are provided by the United States Environmental Protection Agency (EPA), and Department of Housing and Urban Development (HUD). The Occupational Safety and Health Administration (OSHA) regulates lead from a worker exposure position. The Oklahoma Department of

Environmental Quality (ODEQ) has adopted the LBP regulations by the EPA and HUD. The LBP regulations cover what is termed Target Housing and a Child Occupied Facility.

A Child Occupied Facility is defined as a building, or portion of a building, constructed prior to 1978, visited regularly by the same child, under 6 years of age, on at least two different days within any week (Sunday through Saturday period), provided that each day's visit lasts at least 3 hours and the combined weekly visits last at least 6 hours, and the combined annual visits last at least 60 hours. Child-occupied facilities may include, but are not limited to, day care centers, preschools, and kindergarten classrooms. Child-occupied facilities may be in target housing or in public or commercial buildings. With respect to common areas in public or commercial buildings that contain child-occupied facilities, the child-occupied facility encompasses only those common areas that are routinely used by children under age 6, such as restrooms and cafeterias. Common areas that children under age 6 only pass through, such as hallways, stairways, and garages are not included. In addition, with respect to exteriors of public or commercial buildings that contain child-occupied facilities, the child-occupied facility encompasses only the exterior sides of the building that are immediately adjacent to the child-occupied facility or the common areas routinely used by children under age 6.

The LBP survey was conducted by Jeff Jenkins, an ODEQ licensed LBP Inspector/Risk Assessor (OKRASR13417) on April 16, 2021 between the hours of 9:00 AM and 2:00 PM. A copy of the LBP Licenses and certifications are provided in Appendix G. The survey was conducted using an Innov-X-Alpha Series A-4000 (serial # 6379) X-Ray Fluorescence (XRF) analyzer. The alpha unit is a HUD compliant XRF.

Sampling Strategy, Protocols and Limitations

The LBP inspection is a surface-by-surface investigation to determine the presence of LBP. The survey followed the HUD 1997 inspection protocol. LBP is any paint, varnish, shellac, or other coating on surfaces that contains 1.0 mg/cm^2 or more of lead. XRF values are collected by placing the scanner on the test surface and exposing the lead paint film to gamma radiation. XRF analyzers are usually capable of penetrating up to 25 layers of paint to determine lead content. At the conclusion of each test, the shutter is closed and the display on the control console shows the lead concentration in mg/cm2 for manual tabulation and stores the data in memory for transferring to a computer for sorting and report generation.

The XRF is calibrated prior to use by checking Standard Reference Materials (SRM) a minimum of three times initially. The calibration is rechecked every four (4) hours and again at the completion of the survey using the blank and the SRM. The SRM's used were:

- SRM2570 < 0.01 mg/cm^2
- SRM2573 1.04 mg/cm^2

XRF results are identified as positive, negative, or inconclusive based on Performance Characteristic Sheets (PCS), developed by HUD and EPA for each model of XRF device that is commercially available. **"Positive**" refers to XRF results greater than or equal to the threshold of 1.0 mg/cm^2. **"Negative**" refers to XRF results less than the threshold of 1.0 mg/cm^2. Table 2 summarizes the materials that tested Positive for LBP. A copy of the XRF data is provided in Appendix E.

Table 2
Confirmed Lead-Based Paint Results

Materials	Color	Location(s)	Conc. Lead (mg/cm^2)	Quantity	Condition
Plaster Walls	varies	City of Thomas Building	**> 2.00**	2,000 – 2,500 SF	Poor
Window Frames and trim	White		**> 3.00**	15 SF	Intact
Door Frames and Door	White		**> 5.00**		Intact
Fire Door	Gray		**> 5.00**	40 SF	Intact
Stair Railing	Off-white		**0.91**	20 LF	Intact
Plaster Walls	varies	Brantwein Building	**> 1.50**		Poor
Window Frames and trim	White		**> 1.00**		Intact
Door Frames and Door	White		**> 1.00**		Intact
Plaster Walls	varies	Miller Building	**> 3.00**		Poor
Window Frames and trim	White		**> 1.40**		Intact
Plaster Walls – east exterior wall	Varies	Christensen Building	**> 1.00**	250 SF	Intact
SF: Square Feet; LF: Linear Feet; ND: None Detected; NQ: Not Quantified					

Each room tested had all four (4) walls, ceiling (if painted), one (1) door and one (1) door component, one (1) window and one (1) window component, cabinets (frame and moving component), and one of anything else that is painted. For purpose of identifying sample locations the wall on the address side (main entrance) of the facility was identified as side "A", The walls are then numbered going clockwise as "B", "C" or "D".

5.0 LIMITATIONS

The information provided in this report are representative of the conditions present on the day of monitoring. Changes in any of these conditions may affect the findings and recommendations. Although, unlikely there may be materials hidden in the walls, floors, etc. that were not accessible and thus not sampled. Any materials found will need to be assumed to be asbestos containing until tested and proven otherwise.

6.0 FINDINGS AND RECOMMENDATIONS

Findings

No asbestos was present in the four (4) buildings second floors surveyed.

Lead Based Paint (LBP) regulations are provided by the United States Environmental Protection Agency (EPA), and Department of Housing and Urban Development (HUD). The Occupational Safety and Health Administration (OSHA) regulates lead from a worker exposure position. A &M conducted a survey to determine what lead hazards may be present. The following is a summary of the LBP findings:

Plaster Walls	All four (4) Buildings
Window Frames and doors	Thomas, Miller, Brantwein Buildings
Door Frames and Doors	Thomas, Miller, Brantwein Buildings
Stairwell Railing	Thomas Building
Fire door	Thomas Building

Recommendations

Based upon the findings and visual observations made during the survey, the following recommendations are provided:

LBP was identified in the plaster walls in all four (4) buildings. The window frames and windows in the City of Thomas Building, Brantwein Building, and Miller Building also tested positive for LBP.

All remediation activities need to be done using safe-lead practices to capture any debris and/or dust that is formed. Clearance lead testing needs to be conducted following remediation.

7.0 DISCLAIMERS

The asbestos and lead-based paint results identified herein this report apply only to the building(s) tested. The surveys were conducted in accordance with standard industrial hygiene practices and the requirements of the regulations. A & M Engineering and Environmental Services, Inc. does not make any warranty regarding the materials or conditions not evaluated or sampled as identified in this report.

The materials and/or surfaces that did not contain asbestos above 1% or lead-based paint above 1.0 mg/cm^2 may still pose a hazard if disturbed and be subject to OSHA regulations for employee (worker) safety.

Appendix A

Asbestos Laboratory Analyses Reports and Chain of Custody

PLM REPORT SUMMARY

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: A&M Engineering & Environmental Services
Project (Line 1): City of Thomas
Project (Line 2): Thomas, Oklahoma
Project No: 2518-0001 PO Number: 2518-0001
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-25882
Set No.: 37985
Report Date: 4/29/2021
Sample Date: 4/21/2021

On 4/22/2021, forty-seven (47) bulk samples were submitted by a representative of A&M Engineering & Environmental Services for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL911996	123-1-A	Brown Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL911997	123-1-B	Brown Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL911998	123-1-C	Brown Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL911999	123-1-D	Brown Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912000	123-1-E	Brown Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912001	123-2-A	Tan Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912002	123-2-B	Tan Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912003	123-2-C	Tan Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912004	123-3-A	Wiring Cloth	None Detected
CL912005	123-3-B	Wiring Cloth	None Detected
CL912006	123-4-A	Grey Mortar	None Detected
CL912007	123-4-B	Grey Mortar	None Detected
CL912008	123-4-C	Grey Mortar	None Detected
CL912009	123-5-A	Electrical Sheathing	None Detected

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: A&M Engineering & Environmental Services
Project (Line 1): City of Thomas
Project (Line 2): Thomas, Oklahoma
Project No: 2518-0001 PO Number: 2518-0001
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-25882
Set No.: 37985
Report Date: 4/29/2021
Sample Date: 4/21/2021

On 4/22/2021, forty-seven (47) bulk samples were submitted by a representative of A&M Engineering & Environmental Services for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL912010	123-6-A	Multi-Colored Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912011	123-6-B	Multi-Colored Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912012	123-6-C	Multi-Colored Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912013	123-7-A	White Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912014	123-7-B	White Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912015	123-7-C	White Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Fibrous Backing
CL912016	BW-1-A	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912017	BW-1-B	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912018	BW-1-C	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912019	BW-1-D	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912020	BW-1-E	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912021	M-1-A	White Drywall	None Detected - Paper None Detected - Wallboard Material

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: A&M Engineering & Environmental Services
Project (Line 1): City of Thomas
Project (Line 2): Thomas, Oklahoma
Project No: 2518-0001 PO Number: 2518-0001
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-25882
Set No.: 37985
Report Date: 4/29/2021
Sample Date: 4/21/2021

On 4/22/2021, forty-seven (47) bulk samples were submitted by a representative of A&M Engineering & Environmental Services for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL912022	M-1-B	White Drywall	None Detected - Paper None Detected - Wallboard Material
CL912023	M-1-C	White Drywall	None Detected - Wallboard Material
CL912024	M-2-A	Yellow Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Backing/Mastic
CL912025	M-2-B	Yellow Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Backing/Mastic
CL912026	M-2-C	Yellow Sheet Vinyl Flooring	None Detected - Sheet Flooring None Detected - Backing/Mastic
CL912027	M-3-A	White Wallboard	None Detected - White Coating None Detected - Fiberboard None Detected - Brown Mastic
CL912028	M-3-B	White Wallboard	None Detected - White Coating None Detected - Fiberboard None Detected - Brown Mastic
CL912029	M-3-C	White Wallboard	None Detected - White Coating None Detected - Fiberboard None Detected - Brown Mastic
CL912030	P-1-A	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912031	P-1-B	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912032	P-1-C	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: A&M Engineering & Environmental Services
Project (Line 1): City of Thomas
Project (Line 2): Thomas, Oklahoma
Project No: 2518-0001 PO Number: 2518-0001
Identification: Asbestos, Bulk Sample Analysis
Test Method: Polarized Light Microscopy/Dispersion Staining (PLM/DS)
EPA Method 600/R-93/116

Lab Job No.: PLM-25882
Set No.: 37985
Report Date: 4/29/2021
Sample Date: 4/21/2021

On 4/22/2021, forty-seven (47) bulk samples were submitted by a representative of A&M Engineering & Environmental Services for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Client Field I.D.	Sample Description/Location	Asbestos Content
CL912033	P-1-D	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912034	P-1-E	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912035	P-1-F	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912036	P-1-G	Plaster w/White Skim Coat	None Detected - Paint Layer None Detected - Plaster Topcoat None Detected - Plaster
CL912037	P-2-A	Green Vinyl Tile	None Detected - Yellow Mastic None Detected - Sheet Flooring None Detected - Backing/Mastic
CL912038	P-2-B	Green Vinyl Tile	None Detected - Yellow Mastic None Detected - Sheet Flooring None Detected - Backing/Mastic
CL912039	P-2-C	Green Vinyl Tile	None Detected - Yellow Mastic None Detected - Sheet Flooring None Detected - Backing/Mastic
CL912040	BW-2-A	White Drywall	None Detected - Paint Layer None Detected - Paper None Detected - Wallboard Material
CL912041	BW-2-B	White Drywall	None Detected - Paint Layer None Detected - Paper None Detected - Wallboard Material
CL912042	BW-2-C	White Drywall	None Detected - Paint Layer None Detected - Paper None Detected - Wallboard Material

These samples were analyzed by layers. The overall percent asbestos for the sample is reported when relevant. The EPA considers a material to be asbestos containing only if it contains greater than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) – materials that are friable or may become friable – be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. CatesLab utilizes CVAE on a routine basis and does not include point counting unless specifically requested by the client. The results may not be reproduced except in full.

PLM REPORT SUMMARY

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client:	A&M Engineering & Environmental Services	Lab Job No.:	PLM-25882
Project (Line 1):	City of Thomas	Set No.:	37985
Project (Line 2):	Thomas, Oklahoma	Report Date:	4/29/2021
Project No:	2518-0001 PO Number: 2518-0001	Sample Date:	4/21/2021
Identification:	Asbestos, Bulk Sample Analysis		
Test Method:	Polarized Light Microscopy/Dispersion Staining (PLM/DS) EPA Method 600/R-93/116		

On 4/22/2021, forty-seven (47) bulk samples were submitted by a representative of A&M Engineering & Environmental Services for asbestos analysis by PLM/DS. Copies of the lab data sheets are attached; additional information may be found therein.

STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116 or the U.S. Environmental Protection Agency EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, by polarized light microscopy. The results of each bulk sample relate only to the material tested and the results shall not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst: Curtis Grigg

Laboratory Director: John R. Cates, P.G.

Approved Signatory:

NVLAP LAB CODE 200569-0

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-1-A**
Sample Description: **Brown Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL911996**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL911996**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-1-B**
Sample Description: **Brown Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL911997**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL911997**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-1-C**
Sample Description: **Brown Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL911998**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL911998**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-1-D**
Sample Description: **Brown Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL911999**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL911999**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-1-E**
Sample Description: **Brown Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912000**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912000**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-2-A**
Sample Description: **Tan Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912001**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912001**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-2-B**
Sample Description: **Tan Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912002**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912002**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-2-C**
Sample Description: **Tan Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912003**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912003**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-3-A**
Sample Description: **Wiring Cloth**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912004**

Layer 1 **Insulation**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown/Black	**Fibrous**	**No**	**75**	**ND**	**100**

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	**75**		**ribbons**				**high**		
Tar Binders	**25**		**Non-fibrous**						

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912004**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-3-B**
Sample Description: **Wiring Cloth**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912005**

Layer 1 **Insulation**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown/Black	**Fibrous**	**No**	**75**	**ND**	**100**

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	**75**		**ribbons**				**high**		
Tar Binders	**25**		**Non-fibrous**						

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912005**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-4-A**
Sample Description: **Grey Mortar**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912006**

Layer 1 **Mortar**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	**Hard / Blocky**	**Yes**	**ND**	**ND**	**100**

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	**65**		**Non-fibrous**						
Cement Binders	**35**		**Non-fibrous**						

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912006**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-4-B**
Sample Description: **Grey Mortar**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912007**

Layer 1 **Mortar**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	**Hard / Blocky**	**Yes**	**ND**	**ND**	**100**

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	**65**		**Non-fibrous**						
Cement Binders	**35**		**Non-fibrous**						

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912007**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-4-C**
Sample Description: **Grey Mortar**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912008**

Layer 1 **Mortar**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Grey	**Hard / Blocky**	**Yes**	**ND**	**ND**	**100**

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate	**65**		**Non-fibrous**						
Cement Binders	**35**		**Non-fibrous**						

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912008**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-5-A**
Sample Description: **Electrical Sheathing**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912009**

Layer 1 **Insulation**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	**Fibrous**	**No**	**75**	**ND**	**100**

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	**75**		**ribbons**				**high**		
Binders	**25**		**Non-fibrous**						

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912009**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-6-A**
Sample Description: **Multi-Colored Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912010**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Multi-colored	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912010**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-6-B**
Sample Description: **Multi-Colored Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912011**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Multi-colored	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912011**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-6-C**
Sample Description: **Multi-Colored Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912012**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Multi-colored	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912012**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
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Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-7-A**
Sample Description: **White Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912013**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912013**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-7-B**
Sample Description: **White Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912014**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912014**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **123-7-C**
Sample Description: **White Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912015**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Vinyl Binders	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Fibrous Backing**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black	Fibrous	Yes	60	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	60		ribbons				high		
Synthetic Fibers	2		Monofilaments						
Tar Binders	38		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912015**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-1-A**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912016**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912016**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-1-B**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912017**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912017**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-1-C**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912018**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912018**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-1-D**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912019**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912019**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-1-E**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912020**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Off White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912020**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-1-A**
Sample Description: **White Drywall**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912021**

Layer 1 **Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Layer 2 **Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	90

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	1		ribbons				high		
Aggregate	4		Non-fibrous						
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912021**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-1-B**
Sample Description: **White Drywall**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912022**

Layer 1 **Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Layer 2 **Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	90

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	1		ribbons				high		
Aggregate	4		Non-fibrous						
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912022**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-1-C**
Sample Description: **White Drywall**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912023**

Layer 1 **Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	ND	ND	100

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	**95**		**Non-fibrous**						
Perlite	**5**		**Glass Foam**				**0**		

Prep/treatment: **mechanical separation**

Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912023**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-2-A**
Sample Description: **Yellow Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912024**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow	Rubbery	Yes	ND	ND	50

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Vinyl	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Backing/Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White/Yellow	Fibrous/Rubbery	No	55	ND	50

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Glass Fibers	2		straight	none			none		
Aggregate/Binders	33		Non-fibrous						
Glue Binders	10		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912024**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-2-B**
Sample Description: **Yellow Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912025**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow	Rubbery	Yes	ND	ND	50

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Vinyl	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Backing/Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White/Yellow	Fibrous/Rubbery	No	55	ND	50

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Glass Fibers	2		straight	none			none		
Aggregate/Binders	33		Non-fibrous						
Glue Binders	10		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912025**

Bulk Asbestos Analysis Sheet

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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-2-C**
Sample Description: **Yellow Sheet Vinyl Flooring**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912026**

Layer 1 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow	Rubbery	Yes	ND	ND	50

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Vinyl	100		Non-fibrous						

Prep/treatment: **heat / melt**
Asbestos Content: **None Detected**

Layer 2 **Backing/Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White/Yellow	Fibrous/Rubbery	No	55	ND	50

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	55		ribbons				high		
Glass Fibers	2		straight	none			none		
Aggregate/Binders	33		Non-fibrous						
Glue Binders	10		Non-fibrous						

Prep/treatment: **mechanical separation**
Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882**
Sample #: **CL912026**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-3-A**
Sample Description: **White Wallboard**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912027**

Layer 1 **White Coating**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Binders / Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Fiberboard**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	Yes	100	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Brown Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912027**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-3-B**
Sample Description: **White Wallboard**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912028**

Layer 1 **White Coating**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Binders / Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Fiberboard**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	Yes	100	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Brown Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912028**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **M-3-C**
Sample Description: **White Wallboard**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912029**

Layer 1 **White Coating**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Binders / Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Fiberboard**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Fibrous	Yes	100	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Brown Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Brown	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912029**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-A**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912030**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912030**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-B**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912031**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912031**

Bulk Asbestos Analysis Sheet

Cates Laboratories
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EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-C**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912032**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912032**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-D**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912033**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912033**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-E**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912034**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Lavender	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912034**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-F**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912035**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912035**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-1-G**
Sample Description: **Plaster w/White Skim Coat**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912036**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Plaster Topcoat**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard / Blocky	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Plaster**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Beige	Hard / Blocky	Yes	<1	ND	85

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Hair Fibers	<1		Medulla						
Aggregate/Binders	100		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912036**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-2-A**
Sample Description: **Green Vinyl Tile**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912037**

Layer 1 **Yellow Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow-Tan	Rubbery	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard/Fibrous	Yes	5	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	35		ribbons				high		
Aggregate/Vinyl Binders	65		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 3 **Backing/Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black/Yellow	Fibrous/Rubbery	No	40	ND	75

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	35		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glue Binders	5		Non-fibrous						
Tar Binders	55		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912037**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-2-B**
Sample Description: **Green Vinyl Tile**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912038**

Layer 1 **Yellow Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow-Tan	Rubbery	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard/Fibrous	Yes	5	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	35		ribbons				high		
Aggregate/Vinyl Binders	65		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 3 **Backing/Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black/Yellow	Fibrous/Rubbery	No	40	ND	75

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	35		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glue Binders	5		Non-fibrous						
Tar Binders	55		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912038**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **P-2-C**
Sample Description: **Green Vinyl Tile**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912039**

Layer 1 **Yellow Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Yellow-Tan	Rubbery	Yes	ND	ND	5

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Glue Binders	100		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Sheet Flooring**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Green	Hard/Fibrous	Yes	5	ND	20

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	35		ribbons				high		
Aggregate/Vinyl Binders	65		Non-fibrous						

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 3 **Backing/Mastic**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Black/Yellow	Fibrous/Rubbery	No	40	ND	75

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	35		ribbons				high		
Synthetic Fibers	5		Monofilaments						
Glue Binders	5		Non-fibrous						
Tar Binders	55		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912039**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-2-A**
Sample Description: **White Drywall**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912040**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100								

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	1		ribbons				high		
Aggregate	4		Non-fibrous						
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912040**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-2-B**
Sample Description: **White Drywall**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912041**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100								

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	1		ribbons				high		
Aggregate	4		Non-fibrous						
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912041**

Bulk Asbestos Analysis Sheet

Cates Laboratories
1339 Motor Circle
Dallas, Texas 75207 (214) 920-5006

EPA Method 600/R-93/116

NVLAP Lab No. 200569-0
TDSHS License No. 30-0287

Client: **A&M Engineering & Environmental Services**
Project (Line 1): **City of Thomas**
Project (Line 2): **Thomas, Oklahoma**
Project #: **2518-0001** **PO Number: 2518-0001**
Field ID #: **BW-2-C**
Sample Description: **White Drywall**

Lab Proj #: **PLM-25882**
Set #: **37985**
Sample #: **CL912042**

Layer 1 **Paint Layer**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Hard	Yes	ND	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Paint	100								

Prep/treatment: **heat / melt** Asbestos Content: **None Detected**

Layer 2 **Paper**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
Tan	Fibrous	Yes	100	ND	10

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	100		ribbons				high		

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Layer 3 **Wallboard Material**

Stereoscopic Examination

Color	Texture	Homogeneous?	% Fibrous	% Asbestos	% of Sample
White	Blocky	Yes	1	ND	80

PLM Examination:

Components	%	+/-	Morphology	Color/ Pleochroism	Parallel Ref. Index	Perpendicular Ref. Index	Biref	Extinction Angle	Sign of Elongation
Cellulose Fibers	1		ribbons				high		
Aggregate	4		Non-fibrous						
Gypsum Binders	95		Non-fibrous						

Prep/treatment: **mechanical separation** Asbestos Content: **None Detected**

Comments:

Analyst: **Curtis Grigg**
Date Analyzed: **4/29/2021**

Lab Job #: **PLM-25882** Sample #: **CL912042**

CATES LABORATORIES

CHAIN OF CUSTODY

CL Project No PLM - 25882
(Lab Only) SET 37985

Company: A & M Engineering and Environmental Services, Inc

Contact/Results to: Jeff Jenkins **Verbal** ☐ **Email** ☐ **Fax** ☐ (check all that apply)

Email(s): jjenkins@aandmengineering.com

Telephone No.: 918-665-6575 **Fax No.:** 918-665-6576

Project Information

Project: City of Thomas **Project No.:** 2518-0001

Address: City of Thomas, Thomas, Oklahoma **P.O. No.:** 2518-0001

Turnaround (check one)

RUSH ASAP ☐ **RUSH 24HR** ☐ **2 DAY (standard)** ☐ **3-4 DAY** ☐ **5 DAY** ☒

Testing Services (check all that apply)

Asbestos

PLM-BULK
EPA 600/R-93/116 ☒
Point Count (400) ☐

PCM-AIR
NIOSH 7400 ☐
OSHA TWA ☐

IAQ - Mold (Non-Viable)

AIR (spore trap) - Standard Profile (count/genus identification) ☐
AIR (spore trap) - Expanded Profile (w/insect parts/pollen/skin) ☐
BULK (tape lift, swab) - Standard Profile (genus identification) ☐

CatesLab No. Range (Lab Only): 911996 - 912042

Sample Date: 4-21-2021

No. of Samples 44 47 **Positive Stop** Yes ☐ No ☒

Sample No.	Sample Description/Location	Volume (air only)
123-1-A	BROWN PLASTER W/ WHITE SKIM COAT	
123-1-B	"	
123-1-C	"	
123-1-D	"	
123-1-E	"	
123-2-A	TAN VINYL FLOORING	
123-2-B	"	
123-2-C	"	
123-3-A	WIRING CLOTH	
123-3-B	"	
123-4-A	GRAY MORTAR	
123-4-B	"	

Relinquished By:	Date/Time:	Received By:	Date/Time:
	4/21/21 16:15	1255	4/22/202

AF72017-09 - *issued 4/3/2017* Walk-In ☐ D-Drop ☐ F-Drop ☐ FedEx ☒ UPS ☐ Lonestar ☐ USPS ☐

CATES LABORATORIES

CHAIN OF CUSTODY

CL Project No PLM-25882
(Lab Only) SET 37985

Additional Sample Page

Project Name City of Thomas Project No 2518-0001

Sample No.	Sample Description/Location	Volume (air only)
123-4-C	GRAY MORTAR	
123-5-A	ELECTRICAL SHEATHING	
123-6-A	MULTICOLORED SHEET VINYL FLOORING	
123-6-B	"	
123-6-C	"	
123-7-A	WHITE SHEET VINYL FLOORING	
123-7-B	"	
123-7-C	"	
BW-1-A	PLASTER WITH WHITE SKIM COAT	
BW-1-B	"	
BW-1-C	"	
BW-1-D	"	
BW-1-E	"	
M-1-A	WHITE DRYWALL	
M-1B	"	
M-1-C	"	
M-2-A	YELLOW SHEET VINYL FLOORING	
M-2-B	"	
M-2-C	"	
M-3-A	WHITE WALLBOARD	
M-3 B	"	
M-3 C	"	
P-1-A	PLASTER W/ WHITE SKIM COAT	
P-1-B	"	

Relinquished By:	Date/Time:	Received By:	Date/Time:
		1255	4/22/2024

1339 Motor Circle. Dallas. TX 75207 * (214) 920-5006. Fax 1-972-767-0167
NVLAP Code 200569-0. TDSHS-Asbestos 30-0287. TDSHS-Mold LAB1034. AZ Lab Cert AZ0948

CATES LABORATORIES

CHAIN OF CUSTODY

CL Project No PLM- 25982
(Lab Only) SET- 37985

Additional Sample Page

Project Name City of Thomas Project No 2518-0001

Sample No.	Sample Description/Location	Volume (air only)
P-1-C	PLASTER W/ WHITE SKIM COAT	
P-1-D	"	
P-1-E	"	
P-1-F	"	
P-1-G	"	
P-2-A	GREEN VINYL TILE	
P-2-B	"	
P-2-C	"	
BW-2-A	White Drywall	
BW-2-B	"	
BW-2-C	"	

Relinquished By:	Date/Time:	Received By:	Date/Time:
		1255	4/22/2021

1339 Motor Circle Dallas TX 75207 * (214) 920-5006. Fax 1-972-767-0167
NVLAP Code 200569-0 TDSHS-Asbestos 30-0287. TDSHS-Mold LAB1034. AZ Lab Cert AZ0948

Appendix B

Photographs - Asbestos

PHOTO 1

City of Thomas Building - Plaster

PHOTO 2

City of Thomas Building – Tan Vinyl Flooring

PHOTO 3

City of Thomas Building – Electrical Sheathing

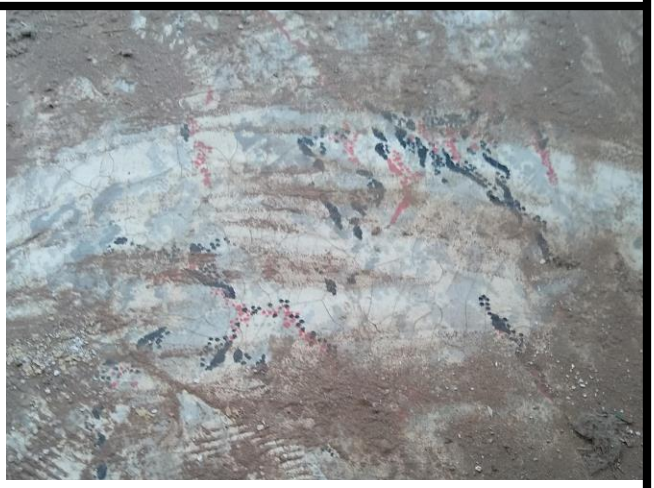
PHOTO 4

City of Thomas Building – Mortar

PHOTO 5

City of Thomas Building – Multicolored Vinyl Flooring

PHOTO 6



City of Thomas Building – Off-White Vinyl Flooring

A & M Engineering and Environmental Services, Inc.
Consulting - Design - Construction - Remediation

PHOTO LOG
CITY OF THOMAS – FOUR BUILDINGS
WEST 1250 ROAD
THOMAS, McINTOSH COUNTY, OKLAHOMA

DATE: 04/26/2021

PROJECT NO. 2518-0001

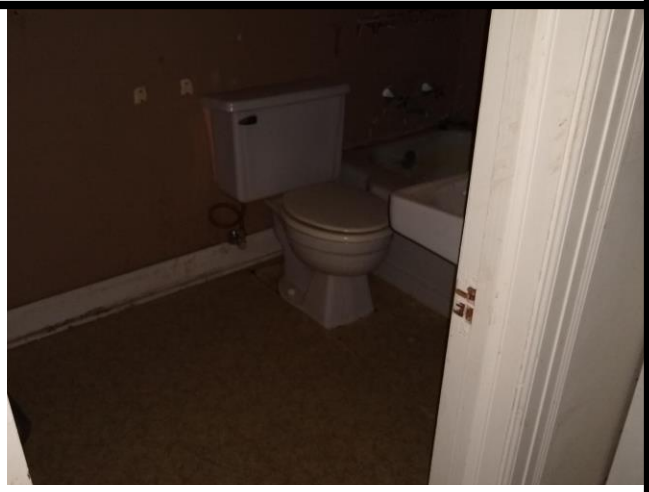
PHOTO 7

Brantwein Building – Plaster

PHOTO 8

Brantwein Building - Drywall

PHOTO 9



Miller Building – Sheet Vinyl Flooring and Drywall

PHOTO 10

Miller Building – White sheet vinyl

PHOTO 11

Christensen Building - Plaster

PHOTO 12

Christensen Building – Green Floor Tile

A & M Engineering and Environmental Services, Inc.
Consulting - Design - Construction - Remediation

PHOTO LOG
CITY OF THOMAS – FOUR BUILDINGS
WEST 1250 ROAD
THOMAS, McINTOSH COUNTY, OKLAHOMA

DATE: 04/26/2021

PROJECT NO. 2518-0001

Appendix C

Asbestos Certifications and Licenses

Oklahoma Department of Labor

Asbestos License

This certifies that **Justin Scott**
has successfully met the certification requirements under the Oklahoma Asbestos Control Act 40 O.S. § 450, et seq. Abatement of Friable Asbestos Materials Rules OAC 380:50 in the following:

Inspector

Leslie Osborn
Labor Commissioner

License # : 159757
Expires : 01/20/2022
Issued : 04/13/2021

Not intended for identification purposes

Oklahoma Department of Labor

Jeffrey Jenkins

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA MANAGEMENT PLANNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in her by law hereby issues to the applicant license
No. OK-MP133987.

Leslie Osborn

Leslie Osborn
Commissioner of Labor

February 26, 2021
Date of Issuance

EXPIRES: January 04, 2022

Oklahoma Department of Labor

Jeffrey Jenkins

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA PROJECT DESIGNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in her by law hereby issues to the applicant license
No. OK-PD143988.

Leslie Osborn

Leslie Osborn

Commissioner of Labor

February 26, 2021

Date of Issuance

EXPIRES: January 04, 2022

Appendix D

Asbestos Sample Locations

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200569-0

Cates Laboratories, Inc.

Dallas, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2021-04-01 through 2022-03-31

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Cates Laboratories, Inc.
1339 Motor Circle
Dallas, TX 75207
Mr. John R. Cates
Phone: 214-920-5006 Fax: 1-972-767-0167
Email: jrcates@cateslab.com
http://www.cateslab.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200569-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Effective 2021-04-01 through 2022-03-31

Appendix E

Lead-Based Paint Field Data

Facility: City of Thomas
Location: Thomas, Oklahoma

A M Engineering and Environmental Project #: 2518-0001

Reading #	Room	Side	Description	Substrate	Color	Lead Conc. (mg/cm²)
10:25 1	SRm 2570					0.00
2	"					0.00
3	"					0.00
4	SRm 1573					1.14
5	↓					1.05
6						1.10
7	↓					1.03
8	123 W Broadway					
9	Main Room	A	Wall	Plaster	WHITE	1.92
10	"	B	"	BRICK	"	>2.23
11	"	C	"	PLASTER	"	.01
12	"	D	"	PLASTER	"	>2.39
13	"	B	WINDOW FRAME	WOOD	"	>3.37
14		B	WINDOW APRON	"	"	3.30
15		-	WALKWAY	WOOD	GRAY	0.37
16		D	DOOR FRAME	"	WHITE	>5.0
17		D	DOOR	"	WHITE	2.54
18		D	QUARTER-ROUND	"	WHITE	0.12
19	BEDROOM	A	WALL	PLASTER	WHITE	>1.46
20		B	"	"	"	>1.30
21		C	"	"	"	>1.25
22		D	"	"	"	>1.12
23		C	DOOR	WOOD	TAN	1.18
24		C	DOOR FRAME	"	"	2.15
25	STORAGE 1	A	WALL	~~PLASTER~~ WOOD	OFF-WHITE	.04
26		B	"	"	"	.06
27		C	"	"	"	.05
28		D	"	PLASTER	"	.05
29		D	FIRE DOOR	STEEL	GRAY	>5.0
30		A	DOOR TRIM	WOOD	OFF-WHITE	.82
31		A	DOOR	"	"	1.11
32	KITCHEN	A	WALL	WOOD	BROWN	.04
33		B	"	"	"	.04
34		C	"	PLASTER	WHITE	0.0
35		D	"	"	"	0.0
36			CEILING	"	BLUE	0.0

Facility: City of Thomas
Location: Thomas, Oklahoma

A M Engineering and Environmental Project #: 2518-0001

Reading #	Room	Side	Description	Substrate	Color	Lead Conc. (ug/cm^2)
37	KITCHEN	D	CABINET PANEL	WOOD	BROWN	.03
38		D	CABINET DOOR	"	"	.02
39		B	DOOR FRAME	"	"	1.88
40		B	DOOR	"	"	.02
41	MAIN ROOM	-	CEILING	TIN	WHITE	0.33
42	BEDROOM	-	CEILING	TIN	WHITE	0.77
43	ENTRY	A	WALL	~~PLASTER~~ DRYWALL	WHITE	0.0
44		B		DRYWALL	"	0.0
45		C		DRYWALL	"	0.0
46		D		PLASTER	"	0.0
47		-	RAILING	WOOD	OFF-WHITE	~~0.82~~ 0.91
48		-	POST	WOOD	"	0.68
49	Brantwein					
50	#1 ~~[illegible]~~	A	Wall	Drywall	white	0.14
51		B	Wall			1.00
52		C	Wall	Plaster		1.80
53		D	Wall	Plaster		2.82
54		C	Window frame	Wood.	Brown	1.81
55		C	Window	Wood	Brown	0.16
56		A	Door frame	Wood	Brown	2.36
57		A	Door	Wood	Brown	1.16
58			Ceiling	Plaster	White	0.05
59	#2.	A	Wall	Drywall ?	White	0.16
60		B		Plaster		3.07
61		C		Plaster		2.53
62		D		Plaster		1.10
63		C	Window Sill	Wood	Brown	0.67
64		A	Window	Wood	Brown	1.29
65		A	Door frame	Wood	Brown	1.13
66		A	Door	Wood	Brown	1.24
67	"		Ceiling	Plaster	white	0.01
68	Storage	A	Wall			inaccessible
69		B		Plaster	Plaster	2.47
70		D		Drywall	Plaster	0.22
71		C		Plaster	Drywall	1.19
72		D	Door frame	Wood	Wood	2.24

Facility: City of Thomas
Location: Thomas, Oklahoma

A M Engineering and Environmental Project #: 2518-0001

Reading #	Room	Side	Description	Substrate	Color	Lead Conc. (mg/cm²)
73	Storage 1	D	Door	Wood	White	2.68
74			Ceiling			inaccessible
75	Laundry	A	Wall			inaccessible
76		B		Plaster	White	0.01
77		C		Plaster	White	0.02
78		D		Wood	W	inaccessible
79		C	Door frame			1.04
80		C	Door			1.56
81		-	CEILING	PLASTER	WHITE	.05
82	STORAGE 2	A	WALL - INACCESSIBLE			INACCESSIBLE
83		B	~~PLAS~~ WALL	PLASTER	WHITE	.18
84		C				0.23
85		D				3.69
86		C	DOOR FRAME	WOOD	WHITE	1.61
87		C	DOOR			1.28
88	COMMON AREA	A	WALL	PLASTER	WHITE	0.57
89		B				1.92
90		C				1.19
91		D				4.0
92		D	DOOR FRAME	WOOD	GREEN	0.38
93		D	DOOR			0.70
94		B	WINDOW FRAME	WOOD	WHITE	0.0
95		B				
96	Miller					
97	L.R	A	Wall	Plaster	Brown	>5
98		B	↓	↓	↓	4.35
99		C				4.19
100		D		Drywall		0.00
101			Ceiling - upper	Drywall	Tannish	
102		A-B	Window frame	Wood		>5.00
103		A-B	Window	Metal		0.00
104		D	Door frame	Wood		0.04
105		D	Door	Wood		0.05
106	Kitchen	A	Kitchen Wall	Drywall	Wallpaper	0.04
107		B				0.05
108		C		Plaster	~~Plaster~~ Green	4.69

Facility: City of Thomas
Location: Thomas, Oklahoma

A M Engineering and Environmental Project #: 2518-0001

Reading #	Room	Side	Description	Substrate	Color	Lead Conc. (ug/cm^2)
109	Master Kitchen	D	Wall	Drywall	Wallpaper	0.01
110		D	Cabinet Frame	Wood	Green	0.24
111		D	Cabinet Drawer	Wood	Green	0.02
112			Cabinet Door	Wood	Green	0.26
113		B	Door Frame	Wood		0.12
114		A	Door	Wood		0.03
115	Bedroom	A	Wall	Plaster	Wallpaper	7.8
116		B	↓	Drywall	↓	0.02
117		C		↓		0.03
118		D	↓		↓	0.03
119		D	Corner Trim	Wood	Green	0.06
120		D	Door Trim	↓	↓	0.02
121		D	Door			0.04
122		C	Baseboard			0.03
123		B	Window Frame			0.43
124	~~Bathroom~~	~~A~~	~~Window~~	~~Drywall~~		1.47
125	Bathroom	A	Wall	Drywall		0.01
126		B				0.02
127		C				0.00
128		D				0.05
129		B	Door Frame	Wood		0.12
130			Door		↓	0.03
131	Christian SE	A	Wall	Plaster	Pink	0.10
132		A	↓		Brown	0.20
133		B			Pink	1.14
134		B			Brown	0.04
135		C			Pink	0.05
136		C			Brown	0.07
137		D			Pink	0.16
138		D	↓		Brown	0.19
139		D-B	Window Frame	Wood	White	0.00
140		D-A	Window	Vinyl	"	←
141		C	Door Frame	Wood	Tan	0.13
142		C	Door	"	"	0.21
143		C	Baseboard			0.11
144						

Facility: City of Thomas
Location: Thomas, Oklahoma

A M Engineering and Environmental Project #: 2518-0001

Reading #	Room	Side	Description	Substrate	Color	Lead Conc. (ug/cm^2)
145	NE Room	A	Wall	Plaster	Pink	7.00
146		A			Brown	7.00
147		B			Pink	0.05
148		B			Brown	0.05
149		C			Pink	0.16
150		C			Brown	0.05
151		D			Pink	0.12
152		D			Brown	0.09
153		D	Window frame	Wood	White	0.00
154		A	Door fram	Wood	Tan	0.34
155		A	Door	Wood	Tan	0.57
156		D	baseboard	Wood	brown	0.12
157	Hallway	A	Wall	Plaster	brown	0.02
158		A			Cream	0.04
159		B			brown	0.01
160		B			Cream	0.01
161		C			brown	0.03
162		C			Cream	0.02
163		D			brown	0.05
164		D			Cream	0.01
165		A	Door fram	Wood	White	0.02
166		A	Door	"	"	0.08
167	1 Away from SE	A	Wall	Plaster	brown	0.15
168		A			Cream	0.00
169		B			brown	0.09
170		B			Cream	0.03
171		C			brown	0.05
172		C			Cream	0.01
173		D			brown	0.12
174		D			Cream	0.03
175		B	baseboard	Wood	brown	0.12
176		B	door fram	"	"	0.00
177	2 Away from SE	A	Wall	Plaster	brown	0.09
178		A			Cream	0.04
179		B			brown	0.12
180		B			Cream	0.03

Facility: City of Thomas
Location: Thomas, Oklahoma

A M Engineering and Environmental Project #: 2518-0001

Reading #	Room	Side	Description	Substrate	Color	Lead Conc. (ug/cm^2)
181	2 Hall from SE	C	Wall	Plaster	Brown	0.13
182		C			Cream	0.01
183		D			Brown	0.21
184		D			Cream	0.03
185		A	Base board	Wood	Brown	0.55
186		B	Door frame			0.35
187		B	Door			0.52
188	2 Hall	A	Wall	Plaster	Cream	0.48
189		B				0.24
190		C				0.31
191		D				0.57
192		C	Base board	Wood	Brown	0.25
193		A	Window frame	Wood	White	0.03
194		D	Door frame		Brown	0.25
195		D	Door		Brown	0.17
196						
197	SRM 2590					0.00
198						0.00
199						0.00
200	SRM 2573					1.04
201						0.99
202						1.08
203						
204						
205						
206						
207						
208						
209						
210						
211						
212						
213						
214						
215						
216						

Appendix F

Lead-Based Paint Certifications and Licenses

Department of Environmental Quality

This is to Certify That

A&M ENGINEERING & ENVIRONMENTAL SERVICES

has met the specifications of the Oklahoma Lead-Based Paint Management Act
and is certified as a Lead-Based Paint

FIRM

Certification #: OKFIRM11301

This certificate is valid from the date of issuance and expires as prescribed by law.

Issued on: **4/1/2021** Expires on: **3/31/2022**

Division Director
Air Quality Division

Heather Leach

Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

This is to Certify That

JEFFREY JENKINS

has met the specifications of the Oklahoma Lead-Based Paint Management Act
and is certified as a Lead-Based Paint

INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13417

This certificate is valid from the date of issuance and expires as prescribed by law.

Issued on: **4/1/2021** Expires on: **3/31/2022**

Division Director
Air Quality Division

DEQ OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Heather Hench

Environmental Programs Manager
Air Quality Division

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 2573

Lead Paint Film
For Portable X-Ray Fluorescence Analyzers – Nominal 1.0 mg/cm^2
(Color Code: Red)

This Standard Reference Material (SRM) is intended for checking the calibration of portable, hand-held, x-ray fluorescence analyzers when testing for lead in paint coatings on interior and exterior building surfaces. A unit of SRM 2573 consists of a white polyester sheet, approximately 7.6 cm wide, 10.2 cm long, and 0.2 mm thick, coated with a single, red-colored paint layer, approximately 0.04 mm thick. A blank, SRM 2570, is also provided. The blank is coated with a lead-free, lacquer layer on a white polyester sheet of the same thickness as the lead paint samples. All sheets are over-coated with a clear, thin, plastic laminate to protect the surface from abrasion. SRM 2573 and SRM 2570 are two of a set of six paint films (SRM 2570 to SRM 2575) available as SRM 2579a.

The certified values for lead for this SRM and the blank, SRM 2570, are reported in Table 1 in units of mg/cm^2. These values are based on measurements by isotope dilution inductively-coupled plasma mass spectrometry.

Table 1. Certified Lead Values

Level	Color Code	Lead Concentration, in mg/cm^2
SRM 2570	White (Blank)	<0.001
SRM 2573	Red	1.040 ± 0.064

The uncertainty of each certified value is expressed as an expanded uncertainty, U, at the 95 % level of confidence and is calculated according to the method described in the ISO Guide [1,2]. Because of variability in the paint film between different sheets of each SRM, the uncertainties are 95 % prediction intervals. The expanded uncertainty is calculated as $U = ku_c$, where u_c is intended to represent, at the level of one standard deviation, the combined uncertainty due to material variability and measurement uncertainty. The coverage factor, k, is determined from the Student's t-distribution corresponding to the calculated effective degrees of freedom and 95 % level of confidence.

Expiration of Certification: The certification of SRM 2573 is valid, within the measurement uncertainties specified, until **01 July 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Use"). The certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet) will facilitate notification.

The overall direction and coordination of the analytical measurements leading to certification were performed by G.C. Turk and J.D. Fassett of the NIST Analytical Chemistry Division. Analytical measurements were performed by K.E. Murphy, J.R. Sieber, A.F. Marlow, L.J. Wood, P.R. Seo, and M. Lankosz of the NIST Analytical Chemistry Division. The SRM was fabricated under the direction of J.R. Sieber of the NIST Analytical Chemistry Division.

Stephen A. Wise, Chief
Analytical Chemistry Division

Gaithersburg, MD 20899
Certificate Issue Date: 24 March 2009
See Certificate Revision History on Last Page

Robert L. Watters, Jr., Chief
Measurement Services Division

Statistical consultation for this SRM was provided by E.S. Lagergren and N.F. Zhang of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Measurement Services Division.

NOTICE AND WARNING TO USERS

NOTE: This SRM contains lead, as a lead chromate pigment, which is toxic and a suspected carcinogen to the lung and kidney. The SRM must be handled with care and disposed of according to the U.S. Environmental Protection Agency (EPA) practices and procedures.

INSTRUCTIONS FOR USE

The SRM sheet must first be removed from the plastic sleeve in which it is stored and then positioned so that the side labeled with the NIST logo and SRM number faces the x-ray source. For best results, the size of the x-ray beam from the field unit should irradiate an area of the SRM that is at least 2.5 cm in diameter and is centered on the sheet. Care must be exercised not to compromise the protective plastic laminate which prevents scratching or chipping of the painted surface and the potential release of dust containing lead. Upon completion of the measurement, the SRM must be re-stored in the plastic sleeve provided. It is also recommended that this SRM be stored indoors at ambient room temperature and away from direct sunlight when not in use.

Stability: This SRM is considered to be stable during the period of certification. NIST will monitor the SRM and will report any significant changes in certification to the purchaser. Return of the attached registration card will facilitate notification.

PREPARATION

SRM Preparation: The paint-coated, polyester sheets were prepared by an automated coating process at a commercial facility under contract to NIST. Known concentrations of a lead chromate pigment were dispersed in a commercial paint vehicle to prepare the lead paints. A lead-free, organic tint was added to each paint mixture to give the desired color. A thin, protective overlay of plastic laminate was applied to each paint film. The attenuation of lead L_3-$M_{4,5}$ ($L\alpha_{1,2}$) X-rays due to the protective overlay does not exceed 2 % relative, while that of K-$L_{2,3}$ ($K\alpha_{1,2}$) x-rays commonly used for field measurement is negligible.

REFERENCES

[1] ISO; *Guide to the Expression of Uncertainty in Measurement*; ISBN 92-67-10188-9, 1st ed., International Organization for Standardization: Geneva, Switzerland (1993); see also Taylor, B.N.; Kuyatt, C.E.; *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*; NIST Technical Note 1297, U.S. Government Printing Office: Washington, DC (1994); available at http://physics.nist.gov/Pubs/.

[2] Hahn, G.J.; Meeker, W.Q.; *Statistical Intervals: A Guide for Practitioners*; John Wiley & Sons, Inc., New York, NY (1991).

Certificate Revision History: 24 March 2009 (Extension of certification period); 29 November 1999 (Original certificate date).

Users of this SRM should ensure that the certificate in their possession is current. This can be accomplished by contacting the SRM Program at: telephone (301) 975-2200; fax (301) 926-4751; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

Appendix G

Performance Characteristic Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: **October 12, 2006** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: ***Innov-X Systems, Inc.***
Models: ***LBP4000 with software version 1.4 and higher***
Source: ***X-ray tube (no radioactive isotopes)***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Inspection mode, variable reading time.

XRF CALIBRATION CHECK LIMITS:

1.0 to 1.1 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on 146 test locations, with two separate instruments, in December 2005.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*) / 6 - 1.02 mg/cm^2

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Take one XRF reading on each of the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Calculate the average of the original XRF reading and the retest XRF reading for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the variable-time inspection paint test mode, the instrument continues to read until it has determined whether the result is positive or negative (with respect to the 1.0 mg/cm^2 Federal standard), with 95% confidence. The following table provides testing time information for this testing mode.

Testing Times Using Variable Reading Time Inspection Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood, Drywall	2.1	2.3	5.4	2.2	5.4	2.2
Metal	2.6	3.2	5.3	2.7	5.1	5.1
Brick, Concrete, Plaster	3.1	4.0	5.7	3.2	4.0	5.9

CLASSIFICATION OF RESULTS:

When an inconclusive range is specified on the *Performance Characteristic Sheet*, XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. If the instrument reads "> x mg/cm^2", the value "x" should be used for classification purposes, ignoring the ">". For example, a reading reported as "*>1.0 mg/cm^2" is classified as 1.0 mg/cm^2, or inconclusive. When the inconclusive range reported in this* PCS is used to classify the readings obtained in the EPA/HUD evaluation, the following False Positive, False Negative and Inconclusive rates are obtained:

FALSE POSITIVE RATE: 2.5% (2/80)

FALSE NEGATIVE RATE: 1.9% (4/212)

INCONCLUSIVE RATE: 16.4% (48/212)

Scope of Work

STATEMENT OF WORK
For
Remediation of Lead Contamination at the Thomas Apartment

The Oklahoma Department of Environmental Quality (DEQ) is requesting a work plan and cost estimate for remediation services at the second level apartment located in Thomas, Oklahoma. This statement of work (SOW) describes removal and proper disposal of lead-based paint and lead dust. This work shall be performed to provide for safe re-use of the facility. The inspection report is attached (**Attachment 1**) and the apartment is referenced as City of Thomas Building in the report.

The apartment is located on the second floor at 123A West Broadway, Thomas, Oklahoma 73669. The building was constructed in 1903. The building will have available water and electricity to use during remediation.

SPECIAL PROVISIONS:

- Work Schedule: The contractor shall schedule all work to be completed within 60 calendar days after date of the written "Notice to Proceed." Coordination of work shall be scheduled with DEQ.
    - All on-site work shall be completed by the contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.

- Conditions of Work: The following conditions of work will apply in accomplishment of this contract:
    - All work shall be performed in accordance with all applicable State and Federal regulations.
    - Contractor shall not cause damage to building structures such as property, walls, and fixtures during remediation process. If damage is caused to these items, contractor is responsible for repairing the damage at no cost to DEQ.
    - Coordination of work areas shall be scheduled with DEQ.
    - All work shall be performed in such a manner that it does not put workers' health and safety at risk.
    - Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend pre-construction walk through;
- Follow all appropriate OSHA and ODOL safety requirements;

Submit With Bid:

- Copy of ODOL Asbestos Abatement Contractor License;

Submit After Notice to Proceed:

- A Work Plan with planned activities and schedule to DEQ for approval;

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

See Lead-Based Paint Inspection Report
for details **(Attachment 1)**

Non-Friction and Non-Impact Surfaces

- All items listed below shall be wet scraped, painted with a neutral-colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (**Attachment 2**). Encapsulant shall be a minimum of 20 millimeters thick.
    - Approximately 2,500 ft^2 of plaster walls throughout the building
    - Approximately 5 windows frames and trim
    - Approximately 1 fire door
    - Approximately 20 linear feet of stair railing
- Deteriorated paint removed from building will be properly disposed of.

Friction and Impact Surfaces

- 1 barndoor style fire door and its components are contaminated with lead-based paint.
    - Door and door frame are metal and will be left in place.
        - Remove all paint from original door frame, repaint with a neutral-colored primer, and repaint the frame the proper color.
        - Remove all paint from Impact Surface of Door. Entire door shall be wet scraped, painted with a neutral-colored primer, encapsulated, and re-painted the proper color. If door componets are painted, remove paint, repaint with a neutral-colored primer, and repaint the components the proper color.

Clearance Inspection

- DEQ to perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
- Once lead-based paint abatement is complete and after room floors are cleaned, contact DEQ before having post abatement clearance sampling in those areas performed.
    - If samples do not meet EPA and HUD standards for lead dust (10ug/SF for floors), areas will need to be re-cleaned and re-sampled;

Sampling and Disposal

- DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed of as appropriate.
    - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the contractor's responsibility to characterize this waste under 40 CFR 262.11 and if it is determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
    - A completed and signed waste manifest, Land Disposal Notification Form, Certificate of Disposal, or any other forms demonstrating that the paint chips were properly disposed of must be included in the Final Report.

FINAL REPORT

Write final report and submit to DEQ;

- Final report shall include:
    - A detailed summary of work including any warranties and data;
    - Waste manifests (if any); and
    - Photo documentation of work
        - Photo documentation of work will have color digital photos with captions describing photo;

- Final report will be submitted electronically.

OWNER REPRESENTATIVE

Owner's Representative: Trenton Wilhelm
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson
P.O. Box 1677
Oklahoma City, OK 73101-1677

Phone Numbers:
(405) 702-5108 (Office)
E-Mail: Trenton.Wilhelm@deq.ok.gov

ATTACHMENT 1

Thomas Apartment Lead Inspection Report

Remediation Reports

MARSHALL ENVIRONMENTAL MANAGEMENT, INC.

ESTABLISHED IN 1987

Certified Industrial Hygiene
Asbestos & Lead-Based Paint
Environmental Science
Indoor Air Quality
Occupational Health & Safety
Research & Consultation
Training & Education

June 5, 2024

Oklahoma Department of Environmental Quality (ODEQ)
Attention: Trenton Wilhelm
707 N Robinson Ave.
Oklahoma City, OK 73102

RE: ABATEMENT OVERSIGHT | THOMAS APARTMENTS – 121 WEST BROADWAY AVENUE, OK 73669

Dear Trenton Wilhelm:

During the period of May 6 through May 30, 2024, Marshall Environmental Management, Incorporated (MEM) oversaw the abatement (i.e., removal) and disposal of the Asbestos Containing Materials (ACM) and Lead Based Paint (LBP), conducted by Tec-An, Inc., that was present within the Thomas Apartments located at 121 West Broadway Avenue in Thomas, Oklahoma. The following ACM and LBP and components were removed/disposed of in accordance with safe work practices within the guidelines of the Environmental Protection Agency (EPA), by an Asbestos Abatement Contractor (Tec-An):

- Plaster Walls with LBP: ~ 2,500 ft^2
- Window Frames and Trim with LBP: ~5 Windows
- Fire Door Components with LBP: 1 Door
- Doors and Frames with LBP: ~ 5 Doors
- Stair Railing with LBP: ~ 20 Linear Feet
- Ceiling Panels with LBP: ~ 1,500 ft^2
- Wood and Tile Flooring: ~ 1,200 ft^2
- Assumed ACM Cement Panel: ~ 3 ft^2
- Assumed ACM Heater Backing: ~ 3 ft^2

While abatement activities were in progress, air samples, representative of the abatement workers breathing zone and the immediate work areas (i.e., 2nd floor of the building), were collected for the purpose of ensuring the effectiveness of the administrative and engineering controls being utilized. The samples were submitted and analyzed, for airborne fiber (NIOSH 7400 method) and airborne lead analysis (NIOSH 7303 method), by an American Industrial Hygiene Association (AIHA) proficient laboratory. The analytical data for the exposure assessments is included in the Appendix to this Report.

Once the abatement activities were complete, Marshall Environmental Management, Incorporated (MEM) conducted a clearance sampling event that took place on May 29th and 30th, 2024, within the interior of the Thomas Apartments located at 121 West Broadway Avenue in Thomas, Oklahoma. As part of the clearance sampling event, a visual assessment took place. In addition, samples of airborne fibers and surface dust were collected from various interior rooms (i.e., floors in all rooms where abatement activities occurred). Samples were submitted for laboratory analysis to ensure that the relevant areas were not contaminated with airborne fibers and/or lead-laden dust as a result of the abatement activities. It should be noted that at the request of the Client, asbestos clearance and surface dust samples were collected in all rooms potentially impacted by the abatement activities. The analytical data for the ACM and LBP Abatement Activities and Clearance Sampling events are included in the Appendix to this Report.

According to the Environmental Protection Agency (EPA) with regard to *Target Housing and Child-Occupied Facilities*[1], a LBP Hazard[2] is any condition that creates, or has the potential to create, an exposure to lead-contaminated dust, soil, or paint by means of deterioration, friction and/or impact, which could result in adverse human-health effects. EPA's clearance levels are for interior surfaces which include, 10 micrograms (µg) of lead in dust per square foot (ft^2) for floor dust and 100 $µg/ft^2$ for windowsill dust[3]. For reference purposes, settled-dust collected from window troughs and all other exterior surfaces containing lead in concentrations ≥400-micrograms per square foot (≥400-$µg/ft^2$) is defined as a LBP Hazard.

During the visual assessment, there were no visible contaminants in the work area. The interior of the building appeared to be clean and free of debris. As a result, laboratory analysis revealed that with the exception of the floor sample collected in the staircase, all remaining surface lead dust samples collected in the from the floors within the work areas exceeded the respective EPA clearance level of 10-$µg/ft^2$. Alternatively, all clearance airborne fiber concentrations were below the applicable Occupational Exposure Limits (OEL), which includes the OSHA permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (F/cm^3) and the Oklahoma Department of Labor (ODOL) PEL of 0.01 F/cm^3. A summary of the surface sample results can be found in Table I below and airborne fiber clearance results can be found in the Attachment to this report.

TABLE I: SURFACE DUST LABORATORY RESULTS

SAMPLE ID	BUILDING COMPONENT	LOCATION/ ROOM EQUIVALENT	AREA	SUBSTRATE	RESULTS	EPA ACTION LEVEL
LW-1	FLOOR	ROOM 1 – CENTER	1-FT^2	WOOD	**100-$µg/ft^2$**	10-$µg/ft^2$
LW-2	FLOOR	ROOM 2 – CENTER	1-FT^2	FLOOR TILE	**55-$µg/ft^2$**	10-$µg/ft^2$
LW-3	FLOOR	ROOM 3 – CENTER	1-FT^2	WOOD	**78-$µg/ft^2$**	10-$µg/ft^2$
LW-4	FLOOR	ROOM 4 – CENTER	1-FT^2	WOOD	**47-$µg/ft^2$**	10-$µg/ft^2$
LW-5	FLOOR	HALLWAY – CENTER	1-FT^2	WOOD	**29-$µg/ft^2$**	10-$µg/ft^2$
LW-6	FLOOR	ROOM 6 – CENTER	1-FT^2	WOOD	**32-$µg/ft^2$**	10-$µg/ft^2$
LW-7	FLOOR	STAIRCASE – CENTER STAIR	1-FT^2	WOOD	<5.0-$µg/ft^2$	10-$µg/ft^2$
LW-8	FLOOR	BLANK	N/A	N/A	<5.0-$µg/ft^2$	10-$µg/ft^2$

$µg/ft.^2$ MICROGRAMS PER SQUARE FOOT

As a result of this evaluation, general recommendations are as follows.

- Surface clean the floor throughout the entire building utilizing high efficiency particulate air filtration [HEPA] vacuuming and wet wiping methods where feasible, or provide sufficient LBP abatement controls.
- Surface dust clearance activities can be repeated following the cleaning activities to ensure the cleanup activities were adequate.
- General recommendations suggest cleaning measures (e.g., dusting, sweeping, mopping, and/or vacuuming) should take place on a routine basis to prevent dust accumulation. Additionally, all cleaning activities should be conducted in a manner that suppresses the dispersion of dust (e.g., wet wiping and using high efficiency particulate air filtration [HEPA] vacuuming).

In conclusion, these analytical results are limited to the sampling locations and parameters analyzed as part of this ACM and LBP Clearance Sampling event and do not represent an Asbestos or LBP Inspection or Risk Assessment. The abatement activities and

[1] *Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities* (40 Code of Federal Regulations [CFR] Part 745
[2] *40-CFR, Part 745.65 Lead-Based Paint Hazards* http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=ac762921cec2401d59ba7e2e6c419dbc&n=40y32.0.1.1.14&r=PART&ty=HTML#40:32.0.1.1.14.2.1.3
[3] https://www.epa.gov/lead/hazard-standards-and-clearance-levels-lead-paint-dust-and-soil-tsca-sections-402-and-403

the determination of compliance were carried out in accordance with Local and Federal Guidelines, and the Project Scope-of-Work. All services were accomplished by a certified, Air Monitor Technician and Oklahoma Department of Environmental Quality (ODEQ) LBP Inspector and/or Risk Assessor and under the direction of Jamie Marshall, Certified Industrial Hygienist (CIH). Once you have had a chance to review, feel free to call or email with any questions. Thank you for allowing Marshall Environmental Management the opportunity to be of service.

Thank you for allowing MEM the opportunity to be of service.

Sincerely,
Marshall Environmental Management, Incorporated

Jamie Marshall, MS, CIH
President

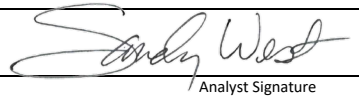
Attachments: Daily Logs & Analytical Data

MARSHALL ENVIRONMENTAL MANAGEMENT, INC.
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117
Phone: 405.616.0401 | Fax: 405.681.6753
mem@marshallenvironmental.com

CERTIFICATE OF ANALYSIS

PROJECT INFORMATION		REPORT TO		INVOICE TO	
Project ID. #	0215-LBP-040124-JK	**Client**		**Client**	
Project Name	Thomas Apartments	**Attention**		**Attention**	
Project Address	121 West Broadway Avenue Thomas, OK 73669	**Address**		**Address**	
Site Contact		**Phone #**		**Phone #**	
Phone #		**Fax #**		**Fax #**	
Cell #		**Cell #**		**Cell #**	
email		**email**		**email**	

Laboratory Identification	Date Sampled	Field Identification	Sampling Location	Pump Number	Start Time	End Time	Total Time	Start Flow Rate	End Flow Rate	Average Flow Rate	Total Volume	Fiber Count	Fields	F/mm^2	F/cc	L.C.L.	U.C.L.	Detection Limit
0050	05/07/24	PCM-01	J. Semmions 403207	25	8:52	13:15	263.00	2.0	2.0	2.0	526.0	30.5	100	38.8535	0.0284	0.0055	0.0514	0.0093
0050	05/07/24	PCM-02	J. Glander 403356	10	8:52	13:15	263.00	2.0	2.0	2.0	526.0	32	100	40.7643	0.0298	0.0058	0.0539	0.0093
0050	05/07/24	PCM-03	Inside Area	9	8:53	13:15	262.00	2.0	2.0	2.0	524.0	27.5	100	35.0318	0.0257	0.0050	0.0465	0.0094
0050	05/07/24	PCM-04	Outside Area	15	8:51	13:19	268.00	2.0	2.0	2.0	536.0	13	100	16.5605	0.0119	0.0023	0.0215	0.0092
0050	05/07/24	PCM-05	Outside Clean Room	28	8:50	13:20	270.00	2.0	2.0	2.0	540.0	4	100	5.0955	B.D.L.	0.0007	0.0066	0.0091
0050	05/07/24	PCM-06	Negative Air	11	8:50	13:20	270.00	2.0	2.0	2.0	540.0	3	100	3.8217	B.D.L.	0.0005	0.0049	0.0091
0050	05/07/24	PCM-07	Field Blank									0	100					
0050	05/07/24	PCM-08	Lab Blank									0	100					

Sandy West		May 8, 2024
Analyst Name (Print)	Analyst Signature	Date Analyzed

Jonathan Chavez
Samples Collected By (Print)

Analytical Method:	NIOSH 7400
Lab Accreditation:	AIHA PAT ID# 102334
Microscope:	Olympus BH-2
Filter Area:	385
Field Area:	0.01

B.D.L.	Below Detection Limit
L.C.L.	Lower Confidence Limit
U.C.L.	Upper Confidence Limit
F/cc	Fibers per Cubic Centimeter
F/mm^2	Fibers per Millimeter Squared

Present Activity:
LBP Abate Oversight
AB O & M

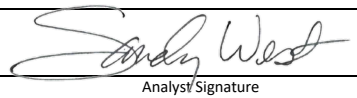
Personal Protective Equipment
Respirator
Gloves
Boots

MARSHALL ENVIRONMENTAL MANAGEMENT, INC.
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117
Phone: 405.616.0401 | Fax: 405.681.6753
mem@marshallenvironmental.com

CERTIFICATE OF ANALYSIS

PROJECT INFORMATION		REPORT TO		INVOICE TO	
Project ID. #	0215-LBP-040124-JK	**Client**		**Client**	
Project Name	Thomas Apartments	**Attention**		**Attention**	
Project Address	121 West Broadway Avenue Thomas, OK 73669	**Address**		**Address**	
Site Contact		**Phone #**		**Phone #**	
Phone #		**Fax #**		**Fax #**	
Cell #		**Cell #**		**Cell #**	
email		**email**		**email**	

Laboratory Identification	Date Sampled	Field Identification	Sampling Location	Pump Number	Start Time	End Time	Total Time	Start Flow Rate	End Flow Rate	Average Flow Rate	Total Volume	Fiber Count	Fields	F/mm^2	F/cc	L.C.L.	U.C.L.	Detection Limit
0050	05/29/24	PCM-09	Clearance - North	HV 1	9:05	11:05	120.00	10.0	10.0	10.0	1200.0	1	100	1.2739	B.D.L.	0.0001	0.0007	0.0041
0050	05/29/24	PCM-10	Clearance - South	HV 2	9:06	11:06	120.00	10.0	10.0	10.0	1200.0	0	100	0.0000	B.D.L.	0.0000	0.0000	0.0041
0050	05/29/24	PCM-11	Clearance - East	HV 3	9:07	11:07	120.00	10.0	10.0	10.0	1200.0	1	100	1.2739	B.D.L.	0.0001	0.0007	0.0041
0050	05/29/24	PCM-12	Clearance - West	HV 4	9:08	11:08	120.00	10.0	10.0	10.0	1200.0	1	100	1.2739	B.D.L.	0.0001	0.0007	0.0041
0050	05/29/24	PCM-13	Clearance - Center	HV 5	9:09	11:09	120.00	10.0	10.0	10.0	1200.0	1.5	100	1.9108	B.D.L.	0.0001	0.0011	0.0041
0050	05/29/24	PCM-14	Field Blank									0	100					
0050	05/29/24	PCM-15	Lab Blank									0	100					

Sandy West		May 31, 2024
Analyst Name (Print)	Analyst Signature	Date Analyzed

Jacob King
Samples Collected By (Print)

Analytical Method:	NIOSH 7400
Lab Accreditation:	AIHA PAT ID# 102334
Microscope:	Olympus BH-2
Filter Area:	385
Field Area:	0.01

B.D.L.	Below Detection Limit
L.C.L.	Lower Confidence Limit
U.C.L.	Upper Confidence Limit
F/cc	Fibers per Cubic Centimeter
F/mm^2	Fibers per Millimeter Squared

Present Activity:
CLEARANCES

Personal Protective Equipment

SGS GALSON

Mr. Jamie Marshall
Marshall Environmental Management
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117

May 20, 2024

Account# 27140

Login# L625963

Dear Jamie Marshall:

Enclosed are the analytical results for the samples received by our laboratory on May 13, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Marshall Environmental Managem
Site : NS
Project No. : 0215-LBP-040124-JK
Date Sampled : 06-MAY-24 - 09-MAY-24
Date Received : 13-MAY-24

Account No.: 27140
Login No. : L625963
Date Analyzed : 16-MAY-24 - 17-MAY-24
Report ID : 1424633

Lead

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
24-0093141	L625963-1	450	<0.38	<0.00083
24-0093159	L625963-2	454	0.85	0.0019
24-0093130	L625963-3	826	1.4	0.0017
24-0093139	L625963-4	824	1.3	0.0016
24-0093123	L625963-5	921	4.8	0.0052
24-0093082	L625963-6	910	3.5	0.0039
24-0093156	L625963-7	938	<0.38	<0.00040
24-0093073	L625963-8	821	1.1	0.0014
24-0093094	L625963-9	859	<0.38	<0.00044
24-0093137	L625963-10	301	1.0	0.0034
24-0093071	L625963-11	NA	<0.38	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.38 ug
Analytical Method : mod NIOSH 7303; ICP/ICPMS
Collection Media : MCE MW 37mm

Submitted by: CAW/LER
Date : 20-MAY-24
Supervisor : JJL

Approved by: JJL

GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client Name : Marshall Environmental Management
Site :
Project No. : 0215-LBP-040124-JK

Date Sampled : 06-MAY-24 - 09-MAY-24 Account No.: 27140
Date Received: 13-MAY-24 Login No. : L625963
Date Analyzed: 16-MAY-24 - 17-MAY-24

L625963 (Report ID: 1424633):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-29(15), MT-SOP-28(16), MT-SOP-27(21)

L625963-1-3,5,7-11 (Report ID: 1424633):
One out of eight blank spikes recovered below control limits (85.9 to 115%) at 84.6% for Lead .

L625963-4,6 (Report ID: 1424633):
Particulate present on the back-up pad. Back-up pad was included in the digestion and analysis.
Reported results greater than LOQ may be biased high due to possible background from back-up pad.
Statistical accuracy statements do not apply to samples that include back-up pad media.

L625963 (Report ID: 1424633):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Lead	+/-9.6%	100%
Lead (L625963-4,6)	+/-10.1%	103%

L6259163

134

SGS GALSON LABORATORIES

77633166802
Date: 05/13/24
Shipper: FEDEX
Initials: MMM
Prep: UNKNOWN

☐ New Client?

Client Account No.*: 27140

Report To*: Jamie Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.*: 405-616-0401
Cell No.:
Email Results to: Jamie Marshall
Email address: mem@marshallenvironmental.com

Invoice To*: Sarah Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.: 405-616-0401
Email: mem@marshallenvironmental.com
P.O. No.:
Credit Card: ☑ Card on File ☐ Call for Credit Card Info.

☐ Samples Submitted using the FreePumpkman™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(Surcharge)
☑ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name: Project: 0215-LBP-040124-JK Sampled by: Jon Chavez

Comments: Lead Analysis Only

List description of Industry or Process/Interferences present in sampling area:

State samples were collected in (e.g., NY): OK

Please indicate which OEL this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume / Sample Time / Sample Area*	Sample Units*: L, ml(min,in2,cm2,ft2)	Analysis Requested*	Method Reference*	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)*
24-0093141	5/6/24	MW MCE	450±	L	Lead.	NIOSH 7303	P1
24-0093159	5/6/24	↓	454±	↓	↓	↓	P2
24-0093130	5/7/24		826				P1
24-0093139	5/7/24		824				P2
24-0093123	5/8/24		921				P1
24-0093082	5/9/24		910				P2
24-0093156	5/8/24		938				P3
24-0093073	5/9/24		821				P1
24-0093094	5/9/24		859				P3
24-0093137	5/9/24		301				P2
24-0093071		↓	NA	N/A	↓	↓	FB

*Galson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: If requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	Jonathan Chavez	5/10/24	13:30	Received by:	Megan M. McGrath	5/13/24	1432
Relinquished by:				Received by:			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 1

SGS GALSON

Mr. Jamie Marshall
Marshall Environmental Management
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117

May 27, 2024

Account# 27140

Login# L626606

Dear Jamie Marshall:

Enclosed are the analytical results for the samples received by our laboratory on May 20, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Marshall Environmental Managem
Site : NS
Project No. : 0215-LBP-040124-JK
Date Sampled : 13-MAY-24 - 16-MAY-24
Date Received : 20-MAY-24

Account No.: 27140
Login No. : L626606

Date Analyzed : 23-MAY-24 - 24-MAY-24
Report ID : 1425938

Lead

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
24-0093077	L626606-1	808	1.9	0.0023
24-0093080	L626606-2	840	3.3	0.0039
24-0093078	L626606-3	745	<0.38	<0.00050
24-0093072	L626606-4	1015	1.1	0.0010
24-0093087	L626606-5	1064	1.3	0.0012
24-0093099	L626606-6	837	<0.38	<0.00045
24-0093147	L626606-7	959	3.5	0.0036
24-0093086	L626606-8	1006	5.4	0.0053
24-0093088	L626606-9	694	<0.38	<0.00054
24-0093126	L626606-10	1071	5.9	0.0055
24-0093136	L626606-11	1071	<0.38	<0.00035
24-0093146	L626606-12	973	0.83	0.00085
24-0093113	L626606-13	NA	<0.38	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.38 ug
Analytical Method : mod NIOSH 7303; ICP/ICPMS
Collection Media : MCE MW 37mm

Submitted by: DPB/CAW/MSC
Date : 27-MAY-24
Supervisor : JJL

Approved by: JJL

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Marshall Environmental Management
Site :
Project No. : 0215-LBP-040124-JK

Date Sampled : 13-MAY-24 - 16-MAY-24 Account No.: 27140
Date Received: 20-MAY-24 Login No. : L626606
Date Analyzed: 23-MAY-24 - 24-MAY-24

L626606 (Report ID: 1425938):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-29(15), MT-SOP-28(16), MT-SOP-27(21)

L626606-10 (Report ID: 1425938):
Particulate present on bottom filter and o-ring. Bottom filter and o-ring were included in the digestion and analysis.

L626606-5 (Report ID: 1425938):
Particulate present on the back-up pad, bottom filter, and o-ring.
Back-up pad, bottom filter, and o-ring were included in the digestion and analysis.
Reported results greater than LOQ may be biased high due to possible background from back-up pad.
Statistical accuracy statements do not apply to samples that include back-up pad media.

L626606 (Report ID: 1425938):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Lead	+/-10.1%	103%
Lead (L626606-5)	+/-9.6%	100%

L6626086

54

SGS GALSON LABORATORIES

☐ New Client?

Report To*: Jamie Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Client Account No.*: 27140

Phone No.*: 405-616-0401
Cell No.:
Email Results to: Jamie Marshall
Email address: mem@marshallenvironmental.com

Invoice To*: Sarah Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.: 405-616-0401
Email: mem@marshallenvironmental.com
P.O. No.:
Credit Card: ☑ Card on File ☐ Call for Credit Card Info.

776433004528
Date:05/20/24
Shipper:FEDEX
Initials:MMM
Prep:UNKNOWN

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
☑ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Project: 0215-LBP-040124-JK Sampled by: JACOB KING

Site Name:

Comments: LEAD ANALYSIS ONLY

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY)

Please indicate which OEL this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
24-0093077	05/13/24	MW MCE	808	L	LEAD	NIOSH 7303	P1
24-0093080	05/13/24		840	L			P2
24-0093078	05/13/24		745	L			LOAD OUT
24-0093072	05/14/24		1015	L			P1
24-0093087	05/14/24		1064	L			P2
24-0093099	05/14/24		837	L			LOAD OUT
24-0093147	05/15/24		959	L			P1
24-0093086	05/15/24		1006	L			P2
24-0093088	05/15/24		694	L			LOADOUT
24-0093126	05/16/24		1071	L			P1
24-0093136	05/16/24	↓	1071	L	↓	↓	P2

☐ Use method(s) listed on COC

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked:

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Chain of Custody							
Relinquished by:	JACOB KING Jacob King	05/17/24	11:00	Received by:	Megan M. McGrath Megan M. McGrath	5/20/24	12:37
Relinquished by:				Received by:			

Samples received after 3pm will be considered as next day's business

* Required fields; failure to complete these fields may result in a delay in your samples being processed.

SGS GALSON LABORATORIES

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ New Client?

Client Account No.*: 27140

Report To*: Jamie Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.*: 405-616-0401
Cell No.:
Email Results to: Jamie Marshall
Email address: mem@marshallenvironmental.com

Invoice To*: Sarah Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.: 405-616-0401
Email: mem@marshallenvironmental.com
P.O. No.:
Credit Card: ☑ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
☑ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name: Project: 02/5-LBP--04/24-JK Sampled by: JACOB KING

Comments: LEAD ANALYSIS ONLY

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY)

Please indicate which OEL this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
24-009314G	05/16/24	MW MCE	973	L	LEAD	NIOSH 7303	LOAD OUT
24-009313	05/16/24	MW MCE	N/A	N/A	LEAD	NIOSH 7303	BLANK

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	JACOB KING	05/17/24	11:00	Received by:	Megan M. McGrath	5/20/24	12:37
Relinquished by:				Received by:			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

SGS GALSON

Mr. Jamie Marshall
Marshall Environmental Management
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117

June 02, 2024

Account# 27140

Login# L627286

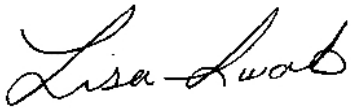
Dear Jamie Marshall:

Enclosed are the analytical results for the samples received by our laboratory on May 28, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

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- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Marshall Environmental Managem
Site : NS
Project No. : 0215-LBP-040124-JK
Date Sampled : 21-MAY-24 - 23-MAY-24
Date Received : 28-MAY-24

Account No.: 27140
Login No. : L627286
Date Analyzed : 30-MAY-24 - 31-MAY-24
Report ID : 1427078

Lead

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
24-0138073	L627286-1	1208	1.0	0.00083
24-0138063	L627286-2	1208	1.2	0.00097
24-0138059	L627286-3	978	<0.38	<0.00038
24-0138077	L627286-4	1346	2.0	0.0015
24-0138079	L627286-5	1405	3.6	0.0026
24-0138083	L627286-6	1099	1.8	0.0016
24-0138081	L627286-7	1424	1.2	0.00081
24-0138078	L627286-8	1424	<0.38	<0.00026
24-0138084	L627286-9	1149	<0.38	<0.00033
24-0138080	L627286-10	NA	<0.38	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.38 ug
Analytical Method : mod. NIOSH 7303; ICP
Collection Media : MCE UW 37mm

Submitted by: LER/CAW/MSC
Date : 02-JUN-24
Supervisor : JJL

Approved by: JJL

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Marshall Environmental Management
Site :
Project No. : 0215-LBP-040124-JK

Date Sampled : 21-MAY-24 - 23-MAY-24 Account No.: 27140
Date Received: 28-MAY-24 Login No. : L627286
Date Analyzed: 30-MAY-24 - 31-MAY-24

L627286 (Report ID: 1427078):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-29(15), MT-SOP-27(21)

L627286-5,7 (Report ID: 1427078):
Particulate present on the back-up pad. Back-up pad was included in the digestion and analysis.
Reported results greater than LOQ may be biased high due to possible background from back-up pad.
Statistical accuracy statements do not apply to samples that include back-up pad media.

L627286 (Report ID: 1427078):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Lead	+/-10.1%	103%

L0272820

SGS GALSON

776540489441
Date:05/28/24
Shipper:FEDEX
Initials:OTS
Prep:UNKNOWN

☐ New Client?

Client Account No.*: 27140

(45)

Report To*: Jamie Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.*: 405-616-0401
Cell No.:
Email Results to: Jamie Marshall
Email address: mem@marshallenvironmental.com

Invoice To*: Sarah Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.: 405-616-0401
Email: mem@marshallenvironmental.com
P.O. No.:
Credit Card: ☑ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

amd

Need Results By:	(surcharge)
☑ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name:

Project: 0215-LBP-040124-JK

Sampled by: JACOB KING

Comments: LEAD ANALYSIS ONLY

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): OK

Please indicate which OEL this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
24-0138073	05/21/24	UWMCE	1208	L	LEAD	NIOSH 7303	P1
24-0138063	05/21/24		1208	L			P2
24-0138059	05/21/24		978	L			LOAD OUT
24-0138077	05/22/24		1346	L			P1
24-0138079	05/22/24		1405	L			P2
24-0138083	05/22/24		1099	L			LOAD OUT
24-0138081	05/23/24		1424	L			P1
24-0138078	05/23/24		1424	L			P2
24-0138084	05/23/24		1149	L			LOAD OUT
24-0138080	05/23/24	↓	N/A	N/A	↓	↓	BLANK

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	JACOB KING / Jacob King	05/24/24	11:00	Received by:	Olivia T. Silver Olivia T. Silver	5/28/24	1445
Relinquished by:				Received by:			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page ___ of ___

SGS GALSON

Mr. Jamie Marshall
Marshall Environmental Management
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117

June 03, 2024

Account# 27140

Login# L627290

Dear Jamie Marshall:

Enclosed are the analytical results for the samples received by our laboratory on May 28, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Marshall Environmental Managem
Site : NS
Project No. : 0215-LBP-040124-JK
Date Sampled : 20-MAY-24
Date Received : 28-MAY-24

Account No.: 27140
Login No. : L627290
Date Analyzed : 01-JUN-24
Report ID : 1427260

Lead

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
24-0093074	L627290-1	679	0.42	0.00062
24-0093122	L627290-2	712	1.1	0.0016

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.38 ug
Analytical Method : mod NIOSH 7303; ICP/MS
Collection Media : MCE MW 37mm

Submitted by: CAW
Date : 03-JUN-24
Supervisor : JJL

Approved by: JJL

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Marshall Environmental Management
Site :
Project No. : 0215-LBP-040124-JK

Date Sampled : 20-MAY-24 Account No.: 27140
Date Received: 28-MAY-24 Login No. : L627290
Date Analyzed: 01-JUN-24

L627290 (Report ID: 1427260):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-29(15), MT-SOP-28(16)

L627290 (Report ID: 1427260):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Lead	+/-9.6%	100%

L627290

SGS GALSON

776540489441
Date:05/28/24
Shipper:FEDEX
Initials:OTS
Prep:UNKNOWN

☐ New Client?

Client Account No.*: 27140

67

Report To*: Jamie Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.*: 405-616-0401
Cell No.:
Email Results to: Jamie Marshall
Email address: mem@marshallenvironmental.com

Invoice To*: Sarah Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Phone No.: 405-616-0401
Email: mem@marshallenvironmental.com
P.O. No.:
Credit Card: ☑ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
☑ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

and

Site Name:

Project: 0215-LBP-040124-JK

Sampled by: JACOB KING

Comments: LEAD ANALYSIS ONLY
① 2pc OS 5/28/24

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): OK

Please indicate which OEL this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
24-0093074	05/20/24	MWMCE①	679	L	LEAD	NIOSH 7303	P1
24-0093122	↓	↓	712	L	↓	↓	P2

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	JACOB KING / Jacob King	05/24/24	11:00	Received by:	Olivia T. Silver Olivia T. Silver	5/28/24	1445
Relinquished by:				Received by:			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page ___ of ___

SGS GALSON

Mr. Jamie Marshall
Marshall Environmental Management
1301 N Martin Luther King Avenue
Oklahoma City, OK 73117

June 07, 2024

Account# 27140

Login# L627675

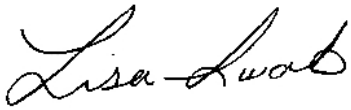
Dear Jamie Marshall:

Enclosed are the analytical results for the samples received by our laboratory on May 31, 2024. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY ANALYSIS REPORT

Client : Marshall Environmental Managem
Site : NS
Project No. : 0215-LBP-040124-JK
Date Sampled : 28-MAY-24 - 30-MAY-24
Date Received : 31-MAY-24

Account No.: 27140
Login No. : L627675
Date Analyzed : 04-JUN-24 - 06-JUN-24
Report ID : 1427975

Lead

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
24-0138062	L627675-1	932	0.89	0.00095
24-0138082	L627675-2	932	0.98	0.0010
24-0138071	L627675-3	879	<0.38	<0.00043
24-0138051	L627675-4	1096	0.48	0.00043
24-0138066	L627675-5	1096	0.59	0.00054
24-0138055	L627675-6	1045	<0.38	<0.00036
24-0138061	L627675-7	777	0.38	0.00048
24-0138074	L627675-8	761	0.38	0.00050
24-0138047	L627675-9	NA	<0.38	NA

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of Quantitation: 0.38 ug
Analytical Method : mod. NIOSH 7303; ICP
Collection Media : MCE UW 37mm

Submitted by: LER/CAW/MSC
Date : 07-JUN-24
Supervisor : JJL

Approved by: JJL

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

LABORATORY FOOTNOTE REPORT

Client Name : Marshall Environmental Management
Site :
Project No. : 0215-LBP-040124-JK

Date Sampled : 28-MAY-24 - 30-MAY-24 Account No.: 27140
Date Received: 31-MAY-24 Login No. : L627675
Date Analyzed: 04-JUN-24 - 06-JUN-24

L627675 (Report ID: 1427975):
For applicable NYS sampling events, laboratory accreditation through NYSDOH applies only to Lead results.
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-29(15), MT-SOP-27(21)

L627675-2 (Report ID: 1427975):
Particulate present on the back-up pad. Back-up pad was included in the digestion and analysis.
Reported results greater than LOQ may be biased high due to possible background from back-up pad.
Statistical accuracy statements do not apply to samples that include back-up pad media.

L627675 (Report ID: 1427975):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Lead	+/-10.1%	103%

L627675

124

SGS GALSON LABORATORIES

☐ New Client?

Client Account No.*: 27140

Report To*: Jamie Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

Invoice To*: Sarah Marshall
1301 N Martin Luther King Ave.
Oklahoma City, OK 73117

776629584360
Date: 05/31/24
Shipper: FEDEX
Initials: MMM
Prep: UNKNOWN

Phone No.*: 405-616-0401
Cell No.:
Email Results to: Jamie Marshall
Email address: mem@marshallenvironmental.com

Phone No.: 405-616-0401
Email: mem@marshallenvironmental.com
P.O. No.:
Credit Card: ☑ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

☑	Standard	0%
☐	4 Business Days	35%
☐	3 Business Days	50%
☐	2 Business Days	75%
☐	Next Day by 6pm	100%
☐	Next Day by Noon	150%
☐	Same Day	200%

Site Name:

Project: 0215-LBP-040124-JK

Sampled by: JACOB KING

Comments: LEAD ANALYSIS ONLY

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): OK

Please indicate which OEL this data will be used for:
☒ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
24-0138062	05/28/24	UWMCE	932	L	LEAD	NIOSH 7303	P1
24-0138082	05/28/24	↓	932	L	↓	↓	P2
24-0138071	05/28/24	↓	879	L	↓	↓	LOAD OUT
24-0138051	05/29/24	↓	1096	L	↓	↓	P1
24-0138066	05/29/24	↓	1096	L	↓	↓	P2
24-0138055	05/29/24	↓	1045	L	↓	↓	LOAD OUT
24-0138061	05/30/24	↓	777	L	↓	↓	P1
24-0138074	05/30/24	↓	761	L	↓	↓	P2
24-0138047	05/30/24	↓	N/A	N/A	↓	↓	BLANK

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	JACOB KING / Jacob King	05/30/24	16:30	Received by:	Megan M. McGrath Megan M. McGrath	5/31/24	12:30p
Relinquished by:				Received by:			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 1

2033 Heritage Park Dr, Oklahoma City, OK 73120 | 1.800.822.1650

Environmental Chemistry Analysis Report

QuanTEM Set ID: 369455
Date Received: 05/31/24
Received By: Courtney Holman
Date Sampled:
Time Sampled:
Analyst:
Date of Report: 06/04/24

AIHA LAP, LLC: 101352

Client: Marshall Environmental Management, Inc.
1301 N. MLK Ave
Oklahoma City, OK 73117

Acct. No.: A331

Project: 0215-LBP-040124-JK
Location: N/A
Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	LW-1	Wipe	Lead	100	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
002	LW-2	Wipe	Lead	55	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
003	LW-3	Wipe	Lead	78	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
004	LW-4	Wipe	Lead	47	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
005	LW-5	Wipe	Lead	29	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
006	LW-6	Wipe	Lead	32	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
007	LW-7	Wipe	Lead	<5.0	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082
008	LW-8	Wipe	Lead	<5.0	5	ug/sq. Ft.	06/04/24 14:10	NIOSH 7082

Authorized Signature:_____

Eric Caves, Chemistry Technical Manager

Note: Sample results have not been corrected for blank values.

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations. Customer provided data such as volumes, areas, etc., cannot be verified by QuanTEM Laboratories, LLC.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report
QAQC Results

QA ID: 21148 **Date:** 6/4/2024 **Lab Number:** 369455
Test: Lead **Matrix:** Wipe **Approved By:** Eric Caves
Date Approved: 6/4/2024

Notes:

Blank Data:

Type of Blank	Blank Value
ICB	0
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
FCV	2.2	2.44	2.8
RLVS	0.05	0.14	0.15
ICV	0.9	0.98	1.1

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W	0.000	2.428	2.220	91.4	2.330	96.0	4.8

Authorized Signature: _____

Eric Caves, Chemistry Technical Manager

LEAD CHAIN OF CUSTODY

QuanTEM LABORATORIES
www.QuanTEM.com
2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
Lab No. 369455
(Accept) Reject

Contact Information			
Company: Marshall Environmental Management		Phone: (405) 616-0401	
Contact: Jamie Marshall		Cell Phone: (405) 361-8138	
Account #:		E-mail:	
SAMPLED BY:	Name: Jacob King	Date: 05/30/2024	

Project Information	
Project Name: 0215-LBP-040124-JK	
Project Location:	
Project ID:	
P.O. Number:	

Report Results (☑ one box)	
(•)	QuanTEM Website
( )	Email _____
( )	Other _____

RELINQUISHED BY	DATE & TIME	VIA	RECEIVED BY	DATE & TIME
Jacob King Jacob P King	05/31/24 08:52	Drop Off	UBN	5 31 24 852 PM

REQUESTED SERVICES (Please ☑ the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume or Area	Flame Atomic Absorption EPA 7000B: Paint Chips ( ) wt% ( ) ppm ( ) mg/cm²	Bulk (mg/kg)	Soil (mg/kg)	NIOSH 7082: Wipes (ug/ft²)	Air (µg /m³)	Other Analysis: TCLP - Pb	TCLP - RCRA 8	RCRA 8	Other
1	LW-1	Room 1 Floor Center	1sqft				✔					
2	LW-2	Room 2 Floor Center	1sqft				✔					
3	LW-3	Room 3 Floor Center	1sqft				✔					
4	LW-4	Room 4 Floor Center	1sqft				✔					
5	LW-5	Hallway Floor Center	1sqft				✔					
6	LW-6	Room 6 Floor Center	1sqft				✔					
7	LW-7	Staircase Center Stair	1sqft				✔					
8	LW-8	Blank	N/A									
9												
10												
11												

TURNAROUND TIME	
( )	Same Day
( )	24 - Hour
( )	3 - Day
(•)	5 - Day

SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"
Please Note - UPS and USPS are NOT available for Saturday Delivery

Photo 1: Thomas Apartments LBP Abatement Progress Room 1 North Side

Photo 2: Thomas Apartments Abatement Progress, LBP Debris Room 1 North Wall Demo

Photo 3: Thomas Apartments LBP Abatement Progress Room 1 West Wall

Photo 4: Thomas Apartments LBP Abatement Progress Room 1 West Wall

Photo 5: Thomas Apartments LBP Abatement Progress Room 1 Southeast Wall

Photo 6: Thomas Apartments LBP Abatement Progress Room 1 East Wall

MEM
MARSHALL ENVIRONMENTAL MANAGEMENT
1301 N Martin Luther King Ave
Oklahoma City, OK 73117
405.616.0401
mem@marshallenvironmental.com

Photo Album

THOMAS APARTMENTS
121 WEST BROADWAY AVENUE
THOMAS, OK 73669

PREPARED BY: JACOB KING

DATE: 06/24/2024

JOB NO: 00215-LBP-040124-JK

Photo 7: Thomas Apartments LBP Abatement Progress Hallway West Wall

Photo 8: Thomas Apartments LBP Abatement Progress Hallway South Wall

Photo 9: Thomas Apartments LBP Abatement Progress Hallway South Wall

Photo 10: Thomas Apartments LBP Abatement Progress Hallway North Wall

Photo 11: Thomas Apartments LBP Abatement Progress Room 4 West Wall & Fire Doo

Photo 12: Thomas Apartments LBP Abatement Progress Room 6

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THOMAS APARTMENTS
121 WEST BROADWAY AVENUE
THOMAS, OK 73669

PREPARED BY: JACOB KING

DATE: 06/24/2024

JOB NO: 00215-LBP-040124-JK

Photo 13: Thomas Apartments LBP Abatement Progress Stairwell

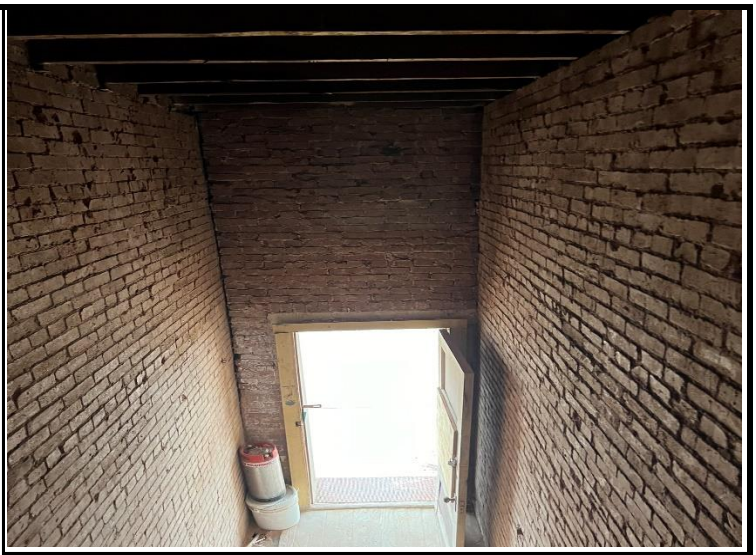

Photo 14: Thomas Apartments LBP Abatement Progress Stairwell

Photo 15: Thomas Apartments LBP Abatement Progress Room 1 West Windows and Frames

Photo 16: Thomas Apartments LBP Abatement Progress Room 1 West Windows and Frames

Photo 17: Thomas Apartments LBP Abatement Progress Stair Bannester After Remova

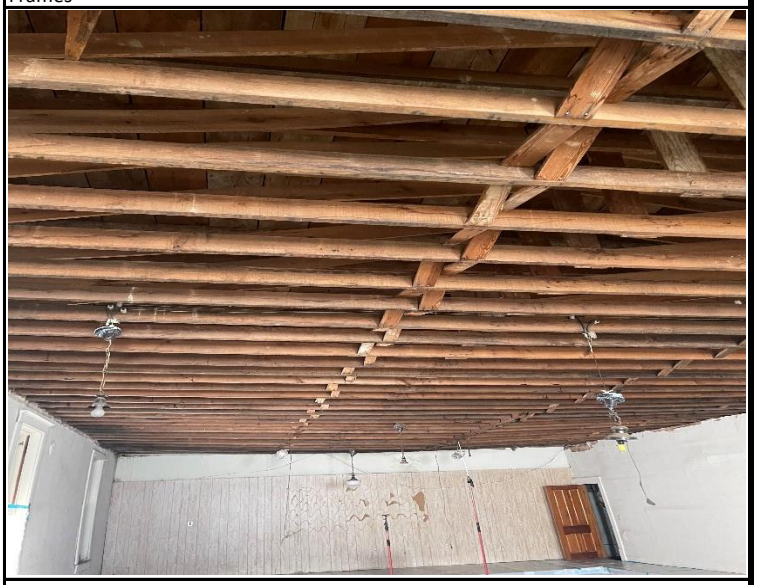

Photo 18: Thomas Apartments LBP Abatement Progress Room 1 Ceiling After Remaov

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mem@marshallenvironmental.com

Photo Album

THOMAS APARTMENTS
121 WEST BROADWAY AVENUE
THOMAS, OK 73669

PREPARED BY: JACOB KING

DATE: 06/24/2024

JOB NO: 00215-LBP-040124-JK

Photo 19: Thomas Apartments LBP Abatement Progress Fier Door After Door Component Scrape

Photo 20: Thomas Apartments LBP Abatement Progress Fier Door After Door Component Scrape

Photo 21: Thomas Apartments LBP Abatement Progress Fier Door After Door Component Scrape

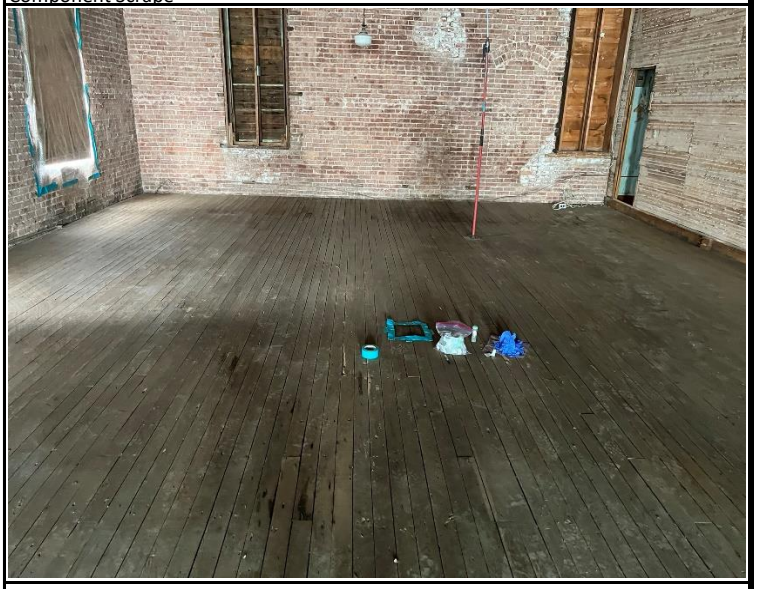

Photo 22: Thomas Apartments LBP Abatement Clearance Sampling Room 1

Photo 23: Thomas Apartments LBP Abatement Clearance Sampling Room 2

Photo 24: Thomas Apartments LBP Abatement Clearance Sampling Room 3

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Photo Album

THOMAS APARTMENTS
121 WEST BROADWAY AVENUE
THOMAS, OK 73669

PREPARED BY: JACOB KING

DATE: 06/24/2024

JOB NO: 00215-LBP-040124-JK

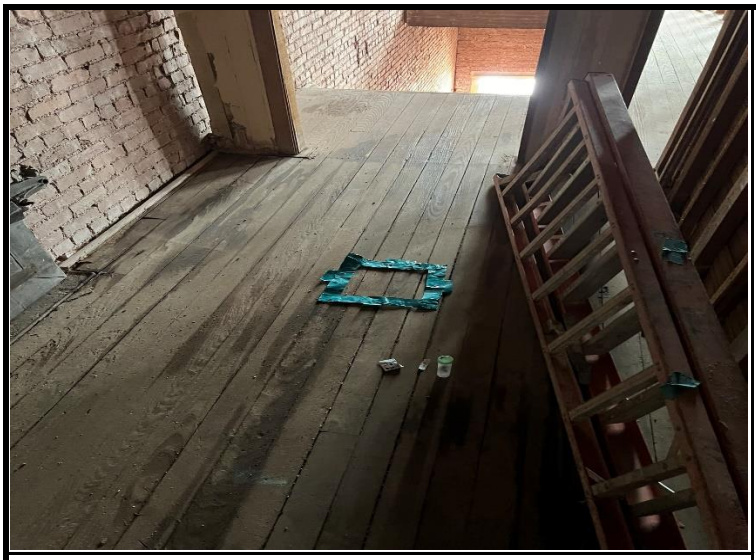

Photo 25: Thomas Apartments LBP Abatement Clearance Sampling Room 4

Photo 26: Thomas Apartments LBP Abatement Clearance Sampling Hallway

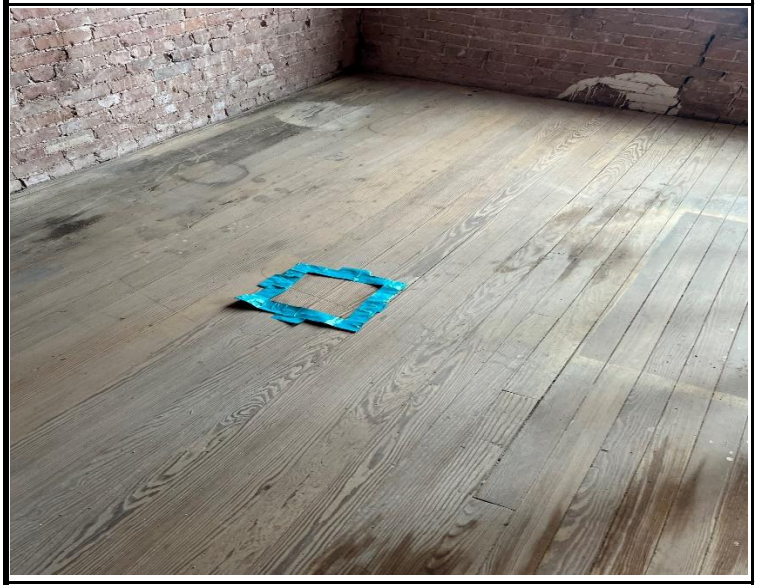

Photo 27: Thomas Apartments LBP Abatement Clearance Sampling Room 6

Photo 28: Thomas Apartments LBP Abatement Clearance Sampling Staircase

Photo 29:

Photo 30:

1301 N Martin Luther King Ave
Oklahoma City, OK 73117
405.616.0401
mem@marshallenvironmental.com

Photo Album

THOMAS APARTMENTS
121 WEST BROADWAY AVENUE
THOMAS, OK 73669

PREPARED BY: JACOB KING

DATE: 06/24/2024

JOB NO: 00215-LBP-040124-JK

Tec-An, Inc.
Technical Environmental Consulting & Analysis

Daily Logs

Tec-An, Inc. 2517 South Purdue Ave, Oklahoma City, OK 73128
Office: (405) 681-7076
Website: www.Tec-An.com or Facebook: www.facebook.com/TecAnInc/

2402-07

TEC-AM, INC.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-6-2024 Start Time: 0800 AM Stop Time: 6:30PM

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APARTMENT Project Number: 2402-07

Project Supervisor: NUBIANE Number of Workers: 6

DOL Inspection: Yes ☐ No ☒ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0800 - SHOP - LOAD EQUIPMENT AND SUPPLIES

1000AM - THOMAS OK - APTS - WORKERS UNLOAD EQUIP AND SUPPLIES

WORKER DON PPE AND START PUTTING UP CURTAINS AND POLYING FLOOR

LUNCH 115 - 215

WORKERS DON PPE AND CONTINUE PREP. BAG WASTE AND STAGE FOR LOAD OUT LATER

6:30pm STOP WORK FOR THE DAY

*Problems Encountered

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 80' (circle one) Sunny/Cloudy/Rain

Other: OVERCAST

Signature: Kenneth C Nubiane

Tec-An, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-7-2024 Start Time: 0730 AM Stop Time: 600PM

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APTS LBP Project Number: 2402-07

Project Supervisor: NUBZUK Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730- WORKERS DON PPE AND START CEILING REMOVAL (METAL) WORKER PUT 6 MIL POLY ON WASTE AND LOAD OUT TO ENCLOSED TRAILER.

12-1 LUNCH

WORKERS DON PPE AND CONTINUE TO REMOVE CEILING
WORKER ALSO REMOVE ACM FROM GAS STOVES ALONG WALL THEN REMOVE THE LUNT LOAD OUT WASTE TO DUMPSTER.

6. STOP WORK FOR THE DAY.

***Problems Encountered**

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 90° (circle one) Sunny/Cloudy/Rain

Other:

Signature: [signature]

Tec-Am, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-8-2024 Start Time: 0730 Stop Time: 6:00pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT. LBP Project Number: 24102-07

Project Supervisor: DUBOSE Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730 - WORKER DON PPE RESUME REMOVAL OF METAL ROOF AS THEY GOT MORE TO THE NE CORNER OF WORK AREA MOUNDS OF OF BIRD WASTE CAME DOWN. BAG WASTE AND STAGE FOR LOAD OUT

LUNCH 1:30 - 2:30

WORKER DON PPE AND RESUME CLEARING AND BIRD WASTE REMOVAL DOUBLE WASTE / LOAD OUT

5:45 CLEAN UP WORK AREA

6:00 STOP WORK.

*Problems Encountered BIRD WASTE

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 80 (circle one) Sunny/Cloudy/Rain

Other:

Signature: Kenneth Dubose

TecAn, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-9-2024 Start Time: 0730 AM Stop Time: 5:30 pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT. LBP Project Number: 2402-07

Project Supervisor: NUBWE Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730 - WORKERS DON PPE AND CONTINUE DEMO OF MECH ROOF AND CLEAN BIRD POOP OUT OF RAFTERS DOUBLE BAG WASTE AND LOAD OUT TO DUMPSTER.

LUNCH 12 - 1pm

WORKERS DON PPE AND RESUME DEMO OF WORK AREA CLEAN BIRD POOP AND SCRAPING TO REMOVE PLASTER FROM THE WALLS.
BAG WASTE AND LOAD OUT
CLEAN WORK AREA LOAD OUT

STOP WORK FOR THE WEEK

*Problems Encountered BIRD POOP

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 70 (circle one) Sunny/Cloudy/Rain

Other:

Signature: Kenneth Nubwe

TEC-AN, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-13-2024 Start Time: 0800 Stop Time: 6:00pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT. LBP Project Number: 2402-07

Project Supervisor: NUBENE Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0800 - STOP - LOAD EQUIPMENT & SUPPLIES

THOMAS APT. - WORKERS DON PPE AND START REMOVAL OF PLASTER ON THE WALLS USING CHISEL BAG WASTE STAGE FOR LOAD OUT LATER

LUNCH 1:30pm - 2:30pm

WORKERS DON PPE AND CONTINUE REMOVAL PLASTER FROM THE WALLS BAG WASTE AND STAGE FOR LOAD OUT

6:00pm STOP WORK

***Problems Encountered**

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 70 (circle one) Sunny/Cloudy/Rain

Other:

Signature: Kenneth Nubene

Tec-An, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-14-2024 Start Time: 0730 Stop Time: 6:00pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT LBP Project Number: 2402-07

Project Supervisor: DUSTIN Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730 - APT. - WORKERS DON PPE
RESUME DEMO - PLASTER REMOVAL
USING WET METHOD
DOUBLE BAG WASTE AND LOAD OUT

12-1 LUNCH

PPE - 6 WORKER
PLASTER WALLS REMOVAL
BAG WASTE - STAGE FOR LOAD OUT. CLEAN

6:00 STOP WORK

*Problems Encountered

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 90 (circle one) Sunny/Cloudy/Rain

Other:

Signature: [signature]

Tec-An, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-16-2024 Start Time: 0930 Stop Time: 6:30 pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT LBP Project Number: 2407-01

Project Supervisor: NUBINE Number of Workers: 6

DOL Inspection: Yes ☐ No ☐ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0930 START WORK DON PPE AND SUITS
CONTINUE REMOVAL OF THE PLASTER WALLS
BAG WASTE IN DECK BAGS
STAGE FOR LOAD OUT LATER

Lunch 1230 - 130pm

WORKER RESUME REMOVAL OF PLASTER ON WALLS

STAGE BAGS OF WASTE FOR LOAD OUT LATER
6:30pm STOP WORK

***Problems Encountered**

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 80 (circle one) Sunny/Cloudy/Rain

Other:

Signature: [signature]

TEC-AM, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-16-2024 Start Time: 0730 Stop Time: 5:30pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT. LBP Project Number: 2402-07

Project Supervisor: DUBOIS Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730 WORKERS DON PPE AND START LOADING OUR WASTE FROM PREVIOUS DAY
BIG DUMPSTER
BREAK FOR LUNCH
1:15 - 2:15pm LUNCH
WORKERS DON PPE AND START THROWING POLY FLOOR UP TO GET TO WOODEN FLOOR DEMO.
VACUUM WINDOW SEALS
STOP WORK

*Problems Encountered THE SMELL ABOUT GONE

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 90 (circle one) Sunny/Cloudy/Rain

Other:

Signature: Kenneth Dubois

Tec-An, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-20-2024 Start Time: 0800 Stop Time: 6:00pm

Day of the week: (circle one) (M) Tu W Th F Sa Su

Project Name: THOMAS APT LBP Project Number: 2402-07

Project Supervisor: NUBINE Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0800 SHOP- LOAD PLYWOOD AND 2X6s FOR GREY REST OF WALLS AND CEILING IN THE STAIR WELL AT THOMAS RUEN, UNLOAD EQUIPMENT AND SUPPLIES WORKER DON PPE AND START REMOVAL OF FLOORING SLATS - TIE UP IN BUNDLE AND STAGE FOR LOADING OUT.

LUNCH 2-3.

3pm - RESUME FLOORING REMOVAL AND PREP ROOM OFF STAIRS FOR PLASTER REMOVAL AND THEN REMOVE IT.

STAGE WASTE FOR LOAD OUT

6pm STOP WORK

Problems Encountered

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 80° (circle one) Sunny/Cloudy/Rain

Other:

Signature: [signature]

TEC-AM, Inc.
Technical Environmental Consulting & Analysis

2402-07

Daily Supervisor Log Sheet

Date: 5-21-2024 Start Time: 0730 Stop Time: 630 pm
Day of the week: (circle one) M Tu W Th F Sa Su
Project Name: THOMAS APT LBP Project Number: 2402-07
Project Supervisor: PUBSAW Number of Workers: 6
DOL Inspection: Yes ☐ No ☒ (circle one) Passed/Failed
Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730 - WORKER DON PPE AND START LOAD OUT OF WOOD FROM FLOOR. RESUME FLOOR REMOVAL AND START LBP REMOVAL FROM HINGES AND LOCK BAR ON VAULT LIKE DOOR TO APT.

LUNCH 1230 - 130pm

WORKER DON PPE AND RESUME FLOOR REMOVAL AND LBP ON DOOR BAG WASTE AND STAGE WOOD STAGE FOR LOAD OUT.

*Problems Encountered NAILS ALL OVER THE FLOOR HAD TO KNOCK THEM DOWN

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 90° (circle one) Sunny/Cloudy/Rain
Other:

Signature: Kenneth A Pubsaw

Tec-An, Inc.
Technical Environmental Consulting & Analysis

2402-07

Daily Supervisor Log Sheet

Date: 5-22-2024 Start Time: Ø730 Stop Time: 630pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS AM LBP Project Number: 2402-07

Project Supervisor: NUBINE Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

Ø73Ø WORKER DON PPE
FINAL CLEANING OF MAIN FLOOR
AND LOAD OUT.

Build PLATFORM FOR STAIRS TO
GET TO CEILING AND PLASTER HIGH ON
WALL.
Lunch 12-1pm

RESUME WORK Building PLATFORM AND
THEN TAKING OUT LBP WINDOW FRAMES
AND CLEANING THEN REPLACE WIT
PLY WOOD.

STOP WORK 630pm

Problems Encountered NAIL STILL ALOT

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 90° (circle one) Sunny/Cloudy/Rain

Other:

Signature: [signature]

2402-07

Tec-Air, Inc.
Technical Environmental Consulting & Analysis

Daily Supervisor Log Sheet

Date: 5-23-2024 Start Time: 0630 Stop Time: 5:45pm

Day of the week: (circle one) M Tu W Th F Sa Su

Project Name: THOMAS APT 1ST Project Number: 2402-07

Project Supervisor: DUBOSE Number of Workers: 6

DOL Inspection: Yes ☐ No ☑ (circle one) Passed/Failed

Type of Inspection(circle one): Prep In-Progress Clearance Re-occupancy

Work Day Activity

0730 WORKER DON PPE AND START REMOVING THE CEILING AND PLASTER WALLS IN THE STAIRWAY.
BAG WASTE AND STAGE FOR LOAD OUT

Lunch 12-1pm

WORKERS DON PPE AND RESUME PLASTER REMOVAL IN STAIR WELL
FINAL CLEAN AREA
BAG WASTE AND LOAD OUT

5:45pm STOP WORK

*Problems Encountered

General Notes/Supplies Needed/Meetings/Visitors

Weather Conditions: Temperature: 80 (circle one) Sunny/Cloudy/Rain

Other:

Signature: Kenneth Dubose

Tec-An, Inc.
Technical Environmental Consulting & Analysis

TCLP Results

Tec-An, Inc. 2517 South Purdue Ave, Oklahoma City, OK 73128
Office: (405) 681-7076
Website: www.Tec-An.com or Facebook: www.facebook.com/TecAnInc/

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

13 May 2024

Mr. Grayson Cook

Tec-An Inc.
2517 S. Purdue Ave.
Oklahoma City, OK 73128

WO: E4E0163
RE: 123 A St. Thomas, OK

Enclosed are the results of analyses for samples received by the laboratory on 5/9/2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
CEO

Original (P)
E4E0163

ENVIRONMENTAL TESTING, INC.

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

Tec-An Inc.	Project: 123 A St. Thomas, OK	
2517 S. Purdue Ave.	Project Number: Thomas	**Reported:**
Oklahoma City OK, 73128	Project Manager: Mr. Grayson Cook	05/13/24 15:57

01

E4E0163-01 (Solid) - Sampled: 05/07/24 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
TCLP Extraction by EPA 1311									
TCLP Extraction	Completed		N/A	1	EME0227	FJM	05/09/24 16:30	EPA 1311 1992	
TCLP Metals by 6000/7000 Series Methods									
Lead	**0.396**	0.100	mg/L	1	EME0259	LSB	05/13/24 11:38	EPA 6010D 2018	
Metals Digestion	Completed		N/A	1	EME0259	LSB	05/12/24 16:20	EPA 3010A 1992	

Environmental Testing, Inc.

Russell Britten, CEO

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.

E4E0163

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
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Tec-An Inc.	Project: 123 A St. Thomas, OK	
2517 S. Purdue Ave.	Project Number: Thomas	**Reported:**
Oklahoma City OK, 73128	Project Manager: Mr. Grayson Cook	05/13/24 15:57

QUALITY CONTROL

TCLP Extraction by EPA 1311
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EME0227 - EPA 1311										
Blank (EME0227-BLK1)				**Prepared & Analyzed: 05/09/24**						
TCLP Extraction	Completed		N/A							

Environmental Testing, Inc.

Russell Britten, CEO

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E4E0163
Original
ETI_OKC_RPT MRL_rev46 0.rpt

E 4 E 0 1 6 3

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Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Tec-An Inc.	Project: 123 A St. Thomas, OK	
2517 S. Purdue Ave.	Project Number: Thomas	**Reported:**
Oklahoma City OK, 73128	Project Manager: Mr. Grayson Cook	05/13/24 15:57

QUALITY CONTROL

TCLP Metals by 6000/7000 Series Methods
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch EME0259 - EPA 3005 TCLP										
Blank (EME0259-BLK1)				**Prepared: 05/12/24 Analyzed: 05/13/24**						
Lead	<0.100	0.100	mg/L							
Metals Digestion	Completed		N/A							
LCS (EME0259-BS1)				**Prepared: 05/12/24 Analyzed: 05/13/24**						
Lead	5.13	0.100	mg/L	5.000		103	80-120			
Metals Digestion	Completed		N/A							
Matrix Spike (EME0259-MS1)		**Source: E4E0163-01**		**Prepared: 05/12/24 Analyzed: 05/13/24**						
Lead	5.27	0.100	mg/L	5.000	0.396	98	75-125			
Metals Digestion	Completed		N/A		Completed					
Matrix Spike Dup (EME0259-MSD1)		**Source: E4E0163-01**		**Prepared: 05/12/24 Analyzed: 05/13/24**						
Lead	5.42	0.100	mg/L	5.000	0.396	100	75-125	3	20	
Metals Digestion	Completed		N/A		Completed					

Environmental Testing, Inc.

Russell Britten, CEO

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Tec-An Inc.	Project: 123 A St. Thomas, OK	
2517 S. Purdue Ave.	Project Number: Thomas	**Reported:**
Oklahoma City OK, 73128	Project Manager: Mr. Grayson Cook	05/13/24 15:57

Certifications

Code	Description	Number	Expires
NELAP/OK	NELAP Accredited (ODEQ)	2023-028	08/31/2024
TCEQ	Texas Accedited (TCEQ)	TX-C24-00089	03/31/2025

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
COM	Completed

Environmental Testing, Inc.

Russell Britten, CEO

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E4E0163
Original
ETI_OKC_RPT MRL_rev46.0.rpt

E 4 E 0 1 6 3

ENVIRONMENTAL TESTING, INC.

Sample Receipt Form: E4E0163

Environmental Testing, Inc.

E4E0163

Printed: 5/9/2024 11:04:02AM

Client:	**Tec-An Inc.**	**Project Manager:**	**Mr. Grayson Cook**
Project:	**123 A St. Thomas, OK**	**Project Number:**	**Thomas**

Report To:
Tec-An Inc.
Mr. Grayson Cook
2517 S. Purdue Ave.
Oklahoma City, OK 73128

Phone: (405) 681-2076

Invoice To:
Tec-An Inc.
Ms. Leslie Ingle
2517 S. Purdue Ave.
Oklahoma City, OK 73128

Phone: (405) 681-2076

Date Due:	05/13/24 17:00 (2 day TAT)		
Received By:	Jordan Anderson	Date Received:	05/09/24 11:00
Logged In By:	Andra Hoot	Date Logged In:	05/09/24 11:03

Samples Received at:		23.5°C			
Custody seals	No	Received on ice	No	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_rev12.0.rpt

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL TESTING, INC.

4619 NORTH SANTA FE AVE.
OKLAHOMA CITY, OK 73118
(405) 488-2400
FAX: (405) 488-2404

Oilab

PAGE: 1 OF 1
SAMPLE SERIES 4AU0162
SHADED AREAS FOR LABORATORY USE ONLY

COMPANY: Tec-An Inc.
ADDRESS: 2517 S Purdue
OKC, OK
PHONE #: 405-681-7076
EMAIL: grayson@tec-an.com
P.O. #: Thomas
CLIENT CONTACT: Grayson Cook
PROJECT #: Thomas /MANAGER:
SITE LOCATION: 123 A St. Thomas, OK

SAMPLE TYPE: 1. WATER 2. SOIL 3. SLUDGE 4. OIL 5. OTHER

CONTAINER TYPE: P-PLASTIC G-GLASS V-VOA O-OTHER T-TEFLON

ANALYSIS: TCLP - Lead

ETI SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER SIZE	CONTAINER TYPE	CONTAINER #	SAMPLING DATE	SAMPLING TIME	PRESERVATIVES	TCLP - Lead	LAB COMMENTS
1.	01	5	Bag	P	1	05-07-24	12:00	None	✓	

RECEIVED ON ICE: ☐ Y ☒ N @ 23.5 °C
EQUIPMENT #: ET000117
22.6+0.9 = 23.5°C

SAMPLER: Grayson Cook

FIELD PH:
TEMP:
TIME:
COND:
CALIB: ☐ 4 ☐ 7 ☐ 10

REQUESTED TURNAROUND TIME: ☐ REGULAR (5 DAYS)

RUSH REQUIRED: (ADDITIONAL FEES MAY APPLY) ☐ 3 DAYS ☑ 2 DAYS ☐ 1 DAY

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
[signature]	DATE: 5-9-24 TIME: 11:09	[signature]	DATE: 5/9/24 TIME: 11:00
RELINQUISHED BY:	DATE: TIME:	RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:	DATE: TIME:	RECEIVED BY:	DATE: TIME:

COMMENTS:

LOG IN REVIEW: ______

SIGNATURE CONSTITUTES AGREEMENT TO TERMS & CONDITIONS.

OKLAHOMA [illegible] LANDFILL/WCI

7600 SW 15TH STREET
OKLAHOMA CITY, OK 73128

Weighed: Sheila

240402
& Thomas

BILL TO: 7583
TEC AN INC
2517 S. PURDUE
OKLAHOMA CITY OK 73128
HAULER: WCIRDS

Vehicle ID:
Reference: 23-2
Grid: NEW
Source:: TEC-AN VARIOUS LOCATION

Location:: OKLAHOMA, OK

Manifest#: 1030782,1030781

: 23-2

DATE IN: 06/19/2024 TIME IN: 08:31:54
DATE OUT: 06/19/2024 TIME OUT: 08:31:54

INBOUND TICKET Number: 02-02313024

SCALE 2 GROSS WT.	10420	LB
MANUAL TARE WT.	7000	LB
NET WEIGHT	3420	LB

Qty	Description	Amount
7.000	Special Waste(YD)	

X_____

Tec-An, Inc.
Technical Environmental Consulting & Analysis

Waste Manifest

Tec-An, Inc. 2517 South Purdue Ave, Oklahoma City, OK 73128
Office: (405) 681-7076
Website: www.Tec-An.com or Facebook: www.facebook.com/TecAnInc/

2402-07

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

WASTE CONNECTIONS INC. *Connect with the Future*

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

Tare, Wt. _____ No. 1030782

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: ODEQ
b. Generating Location: THOMAS APT.
c. Address: 707 N ROBINSON AVE OKLAHOMA CITY, OK 73102
d. Address: 103 S MISSOURI ST. THOMAS OK. 23669
e. Phone No.: 405 702 0100
f. Phone No.: 580-661-4444

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: CITY OF THOMAS OK
h. Purchase Order No.: _____

i. WC WASTE CODE: OK - 23 - 2

j. Description of Waste: _____

k. Quantity: 01 | Units: Y³ | Containers No.: 01 | TYPE: BA

TYPE
DM - METAL DRUM
DP - PLASTIC DRUM
B - BAG
BA - 6 MIL. PLASTIC BAG or WRAP
T - TRUCK
O - OTHER

UNITS
P - POUNDS
Y - YARDS
M³ - CUBIC METERS
Y³ - CUBIC YARDS
O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

KENNETH NUBINE — Generator Authorized Agent Name
Kenneth C Nubine — Signature
05 23 24 — Shipment Date

Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I

a. Name: TEC-AN INC.
b. Address: 2517 PURDUE OKLAHOMA CITY, OK 73128
c. Driver Name/Title: K. NUBINE SUPERVISOR
d. Phone No.: 405 681 2076 e. Truck No.: BOX
f. Vehicle License No./State: OK
Acknowledgment of Receipt of Materials:
g. Kenneth C Nubine — Driver Signature — 05 23 24 — Shipment Date

TRANSPORTER II

h. Name: _____
i. Address: _____
j. Driver Name/Title: _____
k. Phone No.: _____ l. Truck No.: _____
m. Vehicle License No./State: _____
Acknowledgment of Receipt of Materials:
n. _____ — Driver Signature — _____ — Shipment Date

Section III DESTINATION (Generator completes a-d; destination site completes e-f.

a. Site Name: **WASTE CONNECTIONS**
c. Phone No.: **(405) 745-3091**
b. Physical Address: **Oklahoma City Landfill**
d. Fax No.: **(405) 745-3611**
7600 S.W. 15th • Oklahoma City, OK 73128

e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. _____ — Name of Authorized Agent — Signature
06 19 24 — Receipt Date
02/ 2313024

Section IV ASBESTOS (Generator completes a-d; f, g. Shipper* completes e.

a. Shipper's* Name: TEC-AN INC.
b. Shipper's* Phone No.: _____
c. Shipper's* Address: 2517 PURDUE OKLAHOMA CITY, OK 73128
d. Shipper's* Special Handling Instructions and additional information: ½ FACE RESP. + COVERALLS

CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

e. Shipper's* Name & Title: KENNETH NUBINE SUP
b. Shipper's* Phone No.: 405 681-2076
05 23 24 — Date

f. Name and Address of Responsible Agency: THOMAS APT. 103 S. MYSSOURI ST. THOMAS, OK 23669

g. ☒ Friable; ☐ Non-friable; ☐ Both _____% friable _____% nonfriable

*Shipper refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.

WC1000 (Rev. 11/17)

White - Destination Retain — Green - Return to Generator — Canary - Return to Operator — Pink - Transporter Retain — Goldenrod - Generator Retain