

Pre-Renovation Asbestos and Lead Paint Survey Report

200 Commercial St, Klamath Falls, OR

Prepared for:

Oregon Institute of Technology

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Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered



November 2023

Project No.: 27640.000 Phase No.: 0001

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GENERAL INFORMATION

BUILDING DATA

200 Commercial St Building
200 Commercial St
Klamath Falls, OR

CLIENT DATA

Oregon Institute of Technology

BACKGROUND INFORMATION

One story, 5200 SF slab-on-grade cement block commercial building with wood roof deck and membrane roof. Built in approximately the 1940's and last used as a martial arts studio.

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a general asbestos survey of accessible building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Inspection summary
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the building; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.

PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

James Mastanduno
Project Manager/Prime Inspector
Accreditation #: IMR-22-4993B



Signature

Date

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INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
10/26/2023	James Mastanduno	Survey

PBS has investigated accessible areas inside of the building to locate suspect asbestos-containing building materials (ACBM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.

(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

See sample inventory for specific results.

<u>Results</u>	<u>Material Description</u>	<u>Location</u>	<u>Details</u>
(+) 25%	Cement asbestos board wall, floor, and ceiling panels	Mechanical attic	590 SF Non-friable Good Response Action: Abatement within containment.
(+) 20%	Cement asbestos board overhang panels	North and south covered awning areas	2,500 SF Non-friable Good Response Action: Exterior non-friable abatement
(+) 2%	Black mastic under non-ACM sheet vinyl on concrete	East rooms by main lobby, men's restroom storage rooms, lobby closet	560 SF Non-friable Good Response Action: Non-friable mastic abatement

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

<u>Material (type)</u>	<u>Location</u>
Insulation under siding	Exterior siding
Cement masonry block and mortar	Exterior walls
Duct canvas tape	Select canvas duct tape seams
Glued ceiling tiles with brown mastic	Original ceilings
Gray cement siding	Exterior Siding
Gray decorative stone mortar	Lobby
Gray mortar floor patch and paneling	Lobby entry
Membrane roof and insulation	Roof
Unfinished gypsum wallboard ceiling above ceiling tiles	Original ceilings
Various ceramic floor tiles with grout, mastic, and mortar	Ceramic floors
Various ceramic wall tiles with grout, mastic, and mortar	Ceramic walls
Various covebases and mastics	Floor base areas throughout
Various gypsum wallboard walls with joint compound and texture	Finish walls and hard ceilings
Wall and ceiling plaster	Original wall and ceiling finishes
White lay-in ceiling tiles	Suspended ceilings
White leveling compound	Select floor patch areas
White siding caulk	Exterior siding
Yellow backsplash mastic	Bathroom areas
Yellow carpet mastic	Southwest storage area

INSPECTION SUMMARY

BACKGROUND

On October 26, 2023, PBS performed a pre-renovation asbestos and lead paint survey of the building located at 200 Commercial Street in Klamath Falls, Oregon. The survey was requested by Oregon Institute of Technology in anticipation of building renovation.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable asbestos-containing building materials and lead-based paint for removal prior to renovation.

The survey is also intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as requirements by the Department of Environmental Quality (DEQ) to perform an asbestos inspection prior to renovation or demolition activities under Oregon Administrative Rule (OAR) 340-248-0270.

ASBESTOS SUMMARY

The building was inspected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector to determine the presence, location, and approximate quantity of asbestos-containing materials (ACM). 42 bulk samples of building materials, suspected of containing asbestos, were collected and submitted under chain of custody to Lab/Cor Portland Inc. of Portland, Oregon or NVL Labs of Seattle, Washington, for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

- Exterior cement asbestos board ("transite") panels on the front and rear covered overhangs.
- Interior cement asbestos board ("transite") wall, floor, and ceiling panels in the mechanical loft accessible from the southwest storage area.
- Black mastic on concrete under non-ACM sheet vinyl in the men's bathroom storage areas, lobby closet, and rooms east of the lobby. Black mastic tested positive based on mixed results.

At the time of this survey, cement asbestos board panels in the mechanical attic were damaged. All other asbestos-containing building materials were observed to be in good condition.

Please refer to the asbestos bulk sample inventory for more sample details.

Exclusions

Because of limitations of access and destructive investigation during this phase, the following potential materials and locations were not able to be assessed by PBS.

- Waterproofing or vapor barriers behind exterior siding or facades.
- Waterproofing or vapor barriers on foundation walls below grade.
- Vapor barriers under slab floors between bed gravel and concrete foundation.
- Vapor barriers under asphalt parking areas and driveways.
- Waterproofing or vapor barriers under ceramic floor tiles.
- Cement asbestos pipes buried within slabs and earth.

Asbestos Regulations

DEQ, Environmental Protection Agency (EPA), and OSHA regulations require proper removal and handling of ACM by licensed and trained asbestos abatement contractors prior to building renovations or demolition.

EPA, DEQ, and OSHA all define ACM as any material containing more than 1% asbestos. Although materials equal

INSPECTION SUMMARY

to or less than 1% are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and Oregon OSHA has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any level of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

In 1995, Oregon OSHA adopted 29 Code of Federal Regulations (CFR) Part 1926.1101 governing asbestos under OAR 437-003-1926.1101. The regulation has made significant changes in work procedures and how asbestos materials are managed. OSHA believes that the single biggest risk of asbestos exposure is to workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation.

DEQ's OAR 340, Division 248 also covers asbestos abatement requirements, removal notifications, licensing, and certifications for contractors.

For more information regarding the removal of asbestos-containing materials, please refer to the following:

INSPECTION SUMMARY

LEAD-BASED PAINT

LEAD SUMMARY

Paint was sampled for lead content for the sake of hazard identification and communication.

Eight paint chip samples were collected from representative building components from the building and submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA). The concentration of lead in the samples range from less than the limit of detection on wood trim, gypsum walls, and exterior railings to 8,890 parts per million (ppm) on interior plaster walls.

See the lead sample inventory section for representative building components and corresponding results.

Paint testing for this survey was limited in scope. The report information and testing results are not to be construed as an exhaustive investigation of lead-containing paint on all building surfaces. All paint on painted surfaces not identified in this report should be presumed to contain lead.

Lead-Containing Paint Regulations

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009% or 90 parts per million (ppm) or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5% or 5,000 ppm. Under OSHA, any lead concentration in paint that may become airborne during construction operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

In 1993, Oregon OSHA adopted the federal OSHA Lead Standard for the Construction Industry Title 29 CFR 1926.62 under Oregon Administrative Rule 437 Division 3 1926.62. This standard outlines worker exposure limits, personal protection requirements, and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA's lead standard applies to all work where employees may be exposed to lead in construction, alteration, or repair activities. This includes demolition or renovation of structures where lead-containing materials are present.

Disposal

According to DEQ's *Hazardous Waste/Toxics Reduction Policy Clarification*, disposal of building demolition waste coated with lead-based paint generally will not require a hazardous waste determination (i.e., Toxicity Characteristic Leaching Procedures [TCLP] testing) if demolition debris is disposed of at a DEQ-permitted solid waste landfill that meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

Refer to the DEQ hazardous waste reduction policy and follow all requirements under the DEQ, Management of Building Demolition Waste, 97-002A for proper disposal of lead-based painted demolition waste.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0001	Covebase/Mastic (01)	Southeast entry; 4" red covebase with yellow mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, red/purple	No Asbestos Detected	
	Layer 02	mastic, clear/yellow with fine compact powder, off-white/tan	No Asbestos Detected	
27640.000-0002	Sheet Floor Covering (01)	Southeast entry; marbled sheet flooring with black mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	flexible vinyl, clear/tan	No Asbestos Detected	
	Layer 02	fibrous backing, gray/white	No Asbestos Detected	
	Layer 03	mastic, white	No Asbestos Detected	
	Layer 04	loose particulate, gray/off-white	No Asbestos Detected	
27640.000-0003	Gypsum Wallboard/Joint Compound (01)	Southeast entry; gypsum wallboard and joint compound with thick texture		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, brown with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	
27640.000-0004	Lay-in Ceiling Tile (01)	Southeast entry; 2x4 white lay-in ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	
27640.000-0005	Wall and Ceiling Plaster (01)	Southeast entry; plaster over CMU - rough		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact powder, tan/white	No Asbestos Detected	
27640.000-0006	CMU	Southeast entry; cement masonry block and mortar		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	compact granular powder, red/gray	No Asbestos Detected	
	Layer 02	compact powder, gray/red	No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0007	Wall and Ceiling Plaster (02)	Southeast entry; painted plaster and steel lath		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, tan/blue/green	No Asbestos Detected	
	Layer 02	compact granular powder, gray/off-white	No Asbestos Detected	
27640.000-0008	Glued-on Ceiling Tiles/Mastic (01)	Southeast entry; 12" white ceiling tile with brown mastic		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Tan fibrous material with paint	No Asbestos Detected	
	Layer 2	Brown brittle mastic	No Asbestos Detected	
27640.000-0009	Gypsum Wallboard (01)	Southeast entry; gypsum board over glued ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	
27640.000-0010	Sheet Floor Covering (01)	Northeast viewing area; mottled sheet flooring with black mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	flexible vinyl, clear/tan	No Asbestos Detected	
	Layer 02	fibrous backing, gray/tan/off-white	No Asbestos Detected	
	Layer 03	mastic, black/brown	2% Chrysotile	
27640.000-0011	Ceramic Tile/Grout (01)	East kids area; ceramic floor tile with grout and mortar		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	compact powder, red with ceramic tile, off-white	No Asbestos Detected	
	Layer 02	cementitious material, gray	No Asbestos Detected	
27640.000-0012	Leveling Compound (01)	East kids area; white floor compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose particulate, white/gray	No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0013	Gypsum Wallboard/Joint Compound (02)	East kids area; gypsum wallboard and joint compound with orange peel		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, tan with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	fine compact powder, off-white	No Asbestos Detected	
	Layer 03	compact chalky material with paper, white	No Asbestos Detected	
27640.000-0014	Lay-in Ceiling Tile (01)	East kids area; 2x4 white lay-in ceiling tile		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibers, gray	No Asbestos Detected	
27640.000-0015	Gypsum and Plaster (01)	East kids area; gypsum and plaster above ceiling		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, green with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compact granular powder, gray	No Asbestos Detected	
	Layer 03	compact chalky material with paper, white	No Asbestos Detected	
27640.000-0016	Wall and Ceiling Plaster (01)	East kids area; plaster over CMU - rough		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose particulate, off-white	No Asbestos Detected	
27640.000-0017	Mastic (01)	East kids area; yellow bathroom backsplash mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	mastic, yellow with paint, white	No Asbestos Detected	
	Layer 02	fibrous backing, gray	No Asbestos Detected	
27640.000-0018	Gypsum Wallboard (02)	East kids area; 1/2" gypsum above ceiling		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0019	Gypsum Wallboard/Joint Compound (01)	Central lobby; gypsum wallboard and joint compound with texture		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, off-white with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	fibrous material, white	No Asbestos Detected	
	Layer 03	compact chalky material with paper, white	No Asbestos Detected	
27640.000-0020	Ceramic Tile/Grout (02)	Central lobby; white ceramic tile with brown mastic		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	White ceramic tile	No Asbestos Detected	
	Layer 2	Yellow brittle mastic	No Asbestos Detected	
27640.000-0021	Mortar (01)	Central lobby; gray decorative stone tile mortar		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact granular powder, dark gray	No Asbestos Detected	
27640.000-0022	Gypsum Wallboard/Joint Compound (01)	Central lobby; gypsum wallboard and joint compound with texture ceiling		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, brown with fine compact powder, off-white	No Asbestos Detected	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	
27640.000-0023	Brick (01)	Central lobby; brick and mortar floor with black mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	granular compact powder, tan	No Asbestos Detected	
	Layer 02	granular compact powder, gray/black	No Asbestos Detected	
27640.000-0024	Brick (01)	Central lobby; brick and mortar floor with black mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	granular compact powder, tan	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	
	Layer 03	mastic material, black	No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0025	Mortar (02)	Central lobby; gray mortar floor patch at main entry		Eurofins LabCor PDX
		Layer: Layer 1	Description: granular compact powder, gray, with thin coating, black	Analysis: No Asbestos Detected
27640.000-0026	Panel (01)	Central lobby; gray light floor patch panel at main entry		Eurofins LabCor PDX
		Layer: Layer 1	Description: compressed fibrous material, tan/gray, with thin coating, black	Analysis: No Asbestos Detected
27640.000-0027	Glued-on Ceiling Tiles/Mastic (01)	Central lobby; 12" white ceiling tile with brown mastic		NVL Labs, Inc.
		Layer: Layer 1	Description: Tan fibrous material with paint	Analysis: No Asbestos Detected
		Layer: Layer 2	Description: Brown brittle mastic	Analysis: No Asbestos Detected
27640.000-0028	Mastic (01)	Southwest storage area; yellow carpet mastic		Eurofins LabCor PDX
		Layer: Layer 1	Description: loose particulate, tan/off-white	Analysis: No Asbestos Detected
27640.000-0029	Covebase/Mastic (01)	Southwest storage area; 4" brown covebase with yellow mastic		Eurofins LabCor PDX
		Layer: Layer 01	Description: rubbery material, brown	Analysis: No Asbestos Detected
		Layer: Layer 02	Description: mastic, tan	Analysis: No Asbestos Detected
27640.000-0030	Duct Felt Tape (01)	Southwest storage area attic; thin white duct tape		Eurofins LabCor PDX
		Layer: Layer 1	Description: woven fibrous material with paint, tan/off-white	Analysis: No Asbestos Detected
27640.000-0031	Cement Asbestos Board (01)	Southwest storage area attic; cement asbestos panel board		Eurofins LabCor PDX
		Layer: Layer 1	Description: fibrous cementitious material, gray	Analysis: 25% Chrysotile

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0032	Ceramic Tile/Grout (03)	Mens restroom; ceramic wall tile with brown mastic		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	White ceramic tile with tan brittle coating material	No Asbestos Detected	
	Layer 2	Beige brittle mastic	No Asbestos Detected	
	Layer 3	Trace amount of white crumbly material with debris	No Asbestos Detected	
27640.000-0033	Sheet Floor Covering (01)	Mens restroom; mottled sheet flooring with black mastic		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, off-white/tan	No Asbestos Detected	
	Layer 02	fibrous backing, tan	No Asbestos Detected	
	Layer 03	mastic, black	No Asbestos Detected	
27640.000-0034	Wall and Ceiling Plaster (01)	Mens restroom; plaster on steel lath wall		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	granular compact powder, off-white/gray	No Asbestos Detected	
27640.000-0035	Ceramic Tile/Grout (04)	Womens restroom; ceramic floor tiles and grout		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	hard compact powder, brown	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	
27640.000-0036	Roof (01)	Roof; membrane roof and insulation		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	flexible vinyl, black/gray	No Asbestos Detected	
	Layer 02	compressed fibers, brown/gray/black	No Asbestos Detected	
27640.000-0037	Roof (01)	Roof; membrane roof and insulation		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	flexible vinyl, black/gray	No Asbestos Detected	
	Layer 02	compressed fibers, brown/gray	No Asbestos Detected	

BULK SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27640.000-0038	Roof (01)	Roof; membrane roof and insulation		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 01	flexible vinyl, white/gray	No Asbestos Detected
		Layer 02	fibrous material, gray	No Asbestos Detected
		Layer 03	compact chalky material, white	No Asbestos Detected
27640.000-0039	Siding (01)	Exterior south; gray cement siding		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 1	compact powdery material, off-white/gray	No Asbestos Detected
27640.000-0040	Insulation (01)	Exterior south; insulation under siding		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 01	foam, yellow/off-white	No Asbestos Detected
		Layer 02	thin fibrous material, off-white/black	No Asbestos Detected
27640.000-0041	Cement Asbestos Board (02)	Exterior south; cement board awning panels		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 1	fibrous cementitious material with paint, white/tan	20% Chrysotile
27640.000-0042	Caulk (01)	Exterior south; white siding caulk		Eurofins LabCor PDX
		Layer:	Description:	Analysis:
		Layer 1	soft rubbery material, tan/off-white	No Asbestos Detected

PLM - Visual Estimate Extended Final Report

Job Number: 232924

Client: PBS Engineering and Environmental

**Address: 4412 S Corbett Avenue
Portland, OR 97239**

Project Name:

Project No.: 27640.000 Phase 0001

PO Number:

Sub Project:

Reference No.:

Report Number: 232924R01

Report Date: 11/3/2023

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Eurofins Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
232924 - S1	27640.000-0001 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S2	27640.000-0002 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S3	27640.000-0003 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S4	27640.000-0004 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S5	27640.000-0005 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S6	27640.000-0006 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S7	27640.000-0007 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S8	27640.000-0009 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S9	27640.000-0010 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S10	27640.000-0011 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S11	27640.000-0012 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S12	27640.000-0013 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S13	27640.000-0014 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S14	27640.000-0015 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S15	27640.000-0016 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S16	27640.000-0017 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S17	27640.000-0018 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S18	27640.000-0019 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S19	27640.000-0021 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S20	27640.000-0022 -	PLM - Visual Estimate Extended		10/30/2023
232924 - S21	27640.000-0023 -	PLM - Visual Estimate Extended		10/30/2023

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Job Number: 232924

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Project Name:

232924 - S22	27640.000-0024 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S23	27640.000-0025 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S24	27640.000-0026 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S25	27640.000-0028 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S26	27640.000-0029 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S27	27640.000-0030 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S28	27640.000-0031 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S29	27640.000-0033 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S30	27640.000-0034 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S31	27640.000-0035 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S32	27640.000-0036 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S33	27640.000-0037 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S34	27640.000-0038 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S35	27640.000-0039 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S36	27640.000-0040 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S37	27640.000-0041 -	PLM - Visual Estimate Extended	10/30/2023
232924 - S38	27640.000-0042 -	PLM - Visual Estimate Extended	10/30/2023

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Job Number: 232924

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Report Number: 232924R01

Report Date: 11/3/2023

PLM - Visual Estimate Extended The submitted sample(s) were analyzed according to the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA - 40CFR App. E to Subpart E of Part 763. The sample(s) were analyzed with a digital microscope in order to determine homogeneity, the presence of fibers, and make a preliminary estimate of any asbestos fibers present in the sample. The sample(s), and any observed layers, were then homogenized through techniques appropriate to that material and prepared for analysis by polarized light microscopy (PLM).

Three slide mount preparations were made from random subsamples of the homogenized material. This material was then mounted in the suitable refractive index liquid needed to perform a full optical characterization of the observed fibers. When necessary, dilute HCl, instead of RI liquids, were used to remove cementitious binders to facilitate analysis. The entirety of the slide mount preparations were then analyzed by PLM. Any observed fibers were reported and their optical characteristics recorded according to the EPA 600-R-93-116 method.

Disclaimer This report, and the data contained therein, cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. The results found in this report are based only on the submitted sample(s). LabCor has no control over sampling procedures. This report is only valid when signed by an analyst.

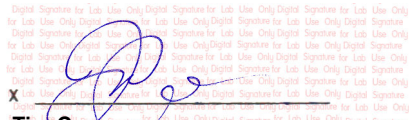
NAD is No Asbestos Detected. Asbestos consists of the six following minerals: chrysotile, amosite, crocidolite, anthophyllite, actinolite, and tremolite.

Additional gravimetric, point-count or TEM analysis may be recommended for samples testing at < or = 1% asbestos, or those with material binders that prevent the detection of small diameter fibers.

The following estimate of error for this method by visual estimation of asbestos percent are as follows:

1% asbestos: >0-3% error,
5% asbestos: 1-9% error,
10% asbestos: 5-15% error,
20% asbestos: 10-30% error.

Sincerely,


X
Tim Cammann
Eurofins - LabCor Portland

BULK SAMPLE ASBESTOS ANALYSIS

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01

Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0001		Sample ID: S1			Date Analyzed: 11/03/2023	
Client Sample Description:		Analyst: Conner Waring				
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, red/purple	90 %	-	-	-	NAD	
Layer 02						
mastic, clear/yellow with fine compact powder, off-white/tan	10 %	-	-	-	NAD	
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	-	-	100 %
Layer 02	-	2 %	-	-	-	98 %

Client Sample ID:	27640.000-0002				Sample ID:	S2		Date Analyzed:	11/03/2023	
Client Sample Description:								Analyst:	Conner Waring	
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite						Percent Asbestos:
Layer 01										
flexible vinyl, clear/tan	20 %	-	-	-						NAD
Layer 02										
fibrous backing, gray/white	55 %	-	-	-						NAD
Layer 03										
mastic, white	10 %	-	-	-						NAD
Layer 04										
loose particulate, gray/off-white	15 %	-	-	-						NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other					Matrix
Layer 01	-	3 %	-	-	-	-	97 %			
Layer 02	3 %	15 %	-	-	-	-	82 %			
Layer 03	Trace	3 %	-	-	-	-	97 %			
Layer 04	-	4 %	-	-	-	-	96 %			

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0003		Sample ID: S3			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, brown with fine compact powder, off-white	20 %	-	-	-		NAD
Layer 02						
compact chalky material with paper, white	80 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	4 %	-	-	-	96 %
Layer 02	Trace	3 %	-	-	-	97 %

Client Sample ID: 27640.000-0004		Sample ID: S4			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
coating, white	3 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	97 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	2 %	3 %	-	-	-	95 %
Layer 02	3 %	80 %	-	-	-	17 %

Client Sample ID: 27640.000-0005		Sample ID: S5			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compact powder, tan/white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	Trace	3 %	-	-	-	97 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0006		Sample ID: S6			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
compact granular powder, red/gray	50 %	-	-	-	NAD	
Layer 02						
compact powder, gray/red	50 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	2 %	6 %	-	-	-	92 %
Layer 02	-	4 %	-	-	-	96 %

Client Sample ID: 27640.000-0007		Sample ID: S7			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
paint, tan/blue/green	7 %	-	-	-	NAD	
Layer 02						
compact granular powder, gray/off-white	93 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	-	3 %	-	-	-	97 %

Client Sample ID: 27640.000-0009		Sample ID: S8			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	15 %	-	-	-	85 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0010		Sample ID: S9			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
flexible vinyl, clear/tan	45 %	-	-	-		NAD
Layer 02						
fibrous backing, gray/tan/off-white	50 %	-	-	-		NAD
Layer 03						
mastic, black/brown	5 %	2 %	-	-		2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	3 %	-	-	-	97 %
Layer 02	-	65 %	-	-	-	35 %
Layer 03	-	2 %	-	-	-	96 %

Client Sample ID: 27640.000-0011		Sample ID: S10			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
compact powder, red with ceramic tile, off- white	80 %	-	-	-		NAD
Layer 02						
cementitious material, gray	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	4 %	-	-	-	96 %
Layer 02	-	2 %	-	-	-	98 %

Client Sample ID: 27640.000-0012		Sample ID: S11			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose particulate, white/gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	3 %	-	-	-	97 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0013		Sample ID: S12			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, tan with fine compact powder, off- white	20 %	-	-	-		NAD
Layer 02						
fine compact powder, off- white	20 %	-	-	-		NAD
Layer 03						
compact chalky material with paper, white	60 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	Trace	2 %	-	Trace	-	98 %
Layer 02	Trace	3 %	-	-	-	97 %
Layer 03	Trace	2 %	-	-	-	98 %

Client Sample ID: 27640.000-0014		Sample ID: S13			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
coating, white	5 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	95 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	Trace	4 %	-	-	-	96 %
Layer 02	Trace	66 %	-	-	-	34 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0015		Sample ID: S14			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, green with fine compact powder, off-white	20 %	-	-	-		NAD
Layer 02						
compact granular powder, gray	35 %	-	-	-		NAD
Layer 03						
compact chalky material with paper, white	45 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	3 %	-	-	-	97 %
Layer 02	Trace	2 %	-	-	-	98 %
Layer 03	-	2 %	-	-	-	98 %

Client Sample ID: 27640.000-0016		Sample ID: S15			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose particulate, off-white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	3 %	-	-	-	97 %

Client Sample ID: 27640.000-0017		Sample ID: S16			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, yellow with paint, white	40 %	-	-	-		NAD
Layer 02						
fibrous backing, gray	60 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	-	45 %	-	-	-	55 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0018	Sample ID: S17	Date Analyzed: 11/03/2023	
Client Sample Description:		Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compact chalky material with paper, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 3 % - - -		97 %

Client Sample ID: 27640.000-0019	Sample ID: S18	Date Analyzed: 11/03/2023	
Client Sample Description:		Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
paint, off-white with fine compact powder, off-white	23 % - - -		NAD
Layer 02			
fibrous material, white	12 % - - -		NAD
Layer 03			
compact chalky material with paper, white	65 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- 3 % - - -	-	97 %
Layer 02	- 40 % - - -	-	60 %
Layer 03	Trace 2 % - - -	-	98 %

Client Sample ID: 27640.000-0021	Sample ID: S19	Date Analyzed: 11/03/2023	
Client Sample Description:		Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
compact granular powder, dark gray	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 2 % - - -	-	98 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01

Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0022		Sample ID: S20			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Conner Waring	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, brown with fine compact powder, off- white	15 %	-	-	-		NAD
Layer 02						
compact chalky material with paper, white	85 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	3 %	-	-	-	97 %
Layer 02	Trace	2 %	-	-	-	98 %

Client Sample ID: 27640.000-0023		Sample ID: S21			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
granular compact powder, tan	60 %	-	-	-		NAD
Layer 02						
granular compact powder, gray/black	40 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0024		Sample ID: S22			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
granular compact powder, tan	75 %	-	-	-		NAD
Layer 02						
granular compact powder, gray	20 %	-	-	-		NAD
Layer 03						
mastic material, black	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	3 %	-	-	-	97 %

Client Sample ID: 27640.000-0025		Sample ID: S23			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular compact powder, gray, with thin coating, black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 27640.000-0026		Sample ID: S24			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compressed fibrous material, tan/gray, with thin coating, black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	45 %	45 %	-	-	10 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0028		Sample ID: S25		Date Analyzed: 11/03/2023	
Client Sample Description:				Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose particulate, tan/off-white	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	4 %	-	-	-
					Matrix 96 %
Client Sample ID: 27640.000-0029		Sample ID: S26		Date Analyzed: 11/03/2023	
Client Sample Description:				Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, brown	80 %	-	-	-	NAD
Layer 02					
mastic, tan	20 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	-	-	-	-	-
					Matrix 100 % 100 %
Client Sample ID: 27640.000-0030		Sample ID: S27		Date Analyzed: 11/03/2023	
Client Sample Description:				Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
woven fibrous material with paint, tan/off-white	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	90 %	-	-	-
					Matrix 10 %
Client Sample ID: 27640.000-0031		Sample ID: S28		Date Analyzed: 11/03/2023	
Client Sample Description:				Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous cementitious material, gray	100 %	25 %	-	-	25 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	Trace	-	-	-
					Matrix 75 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0033		Sample ID: S29			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
vinyl, off-white/tan	40 %	-	-	-		NAD
Layer 02						
fibrous backing, tan	50 %	-	-	-		NAD
Layer 03						
mastic, black	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	70 %	-	-	-	30 %
Layer 03	-	2 %	-	-	-	98 %

Client Sample ID: 27640.000-0034		Sample ID: S30			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular compact powder, off-white/gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 27640.000-0035		Sample ID: S31			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
hard compact powder, brown	80 %	-	-	-		NAD
Layer 02						
granular compact powder, gray	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0036		Sample ID: S32			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
flexible vinyl, black/gray	50 %	-	-	-	NAD	
Layer 02						
compressed fibers, brown/gray/black	50 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	5 %	-	-	-	95 %
Layer 02	-	95 %	-	-	-	5 %
Client Sample ID: 27640.000-0037		Sample ID: S33			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
flexible vinyl, black/gray	40 %	-	-	-	NAD	
Layer 02						
compressed fibers, brown/gray	60 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	5 %	-	-	-	-	95 %
Layer 02	-	90 %	-	-	-	10 %
Client Sample ID: 27640.000-0038		Sample ID: S34			Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
flexible vinyl, white/gray	40 %	-	-	-	NAD	
Layer 02						
fibrous material, gray	10 %	-	-	-	NAD	
Layer 03						
compact chalky material, white	50 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	5 %	-	-	-	-	95 %
Layer 02	50 %	-	-	-	-	50 %
Layer 03	3 %	-	-	-	-	97 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01
Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

Project Number: 27640.000 Phase 0001

Project Notes:

Client Sample ID: 27640.000-0039	Sample ID: S35				Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compact powdery material, off-white/gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %
Client Sample ID: 27640.000-0040	Sample ID: S36				Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
foam, yellow/off-white	50 %	-	-	-		NAD
Layer 02						
thin fibrous material, off- white/black	50 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	50 %	-	50 %
Client Sample ID: 27640.000-0041	Sample ID: S37				Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fibrous cementitious material with paint, white/tan	100 %	20 %	-	-		20 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	80 %
Client Sample ID: 27640.000-0042	Sample ID: S38				Date Analyzed: 11/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
soft rubbery material, tan/off-white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 232924R01

Report Date: 11/03/2023

Job Number: 232924

P.O. No: n/a

Project Name:

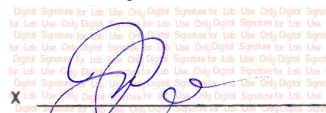
Project Number: 27640.000 Phase 0001

Project Notes:

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA - 40CFR App. E to Subpart E of Part 763, PLM. This report and the data contained therein cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

- "NAD" is No Asbestos Detected.
- Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
- Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
- Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
- The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: >0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
- This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:


X
Tim Cammann
Eurofins - LabCor Portland

Reviewed by: _____
Results Released on: _____
Invoice Released on: _____
Verbal Email Physical



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 27640.000 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: October 30, 2023

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

John York
Name
[Signature]
Authorized Signature
10/30/23 9:35
Date Time

RECEIVER

Date Received: 10/30/23

Company: Eurofins LabCor PDX
Address: 4321 S Corbett Avenue
Portland, OR 97239
(503) 224-5055

Mark Donahue
Name
[Signature]
Authorized Signature
10/30/23 9:40
Date Time

Sender's ID No.	Brief Description	Receiver's ID No.
27640.000-0001	_____	_____
27640.000-0002	_____	_____
27640.000-0003	_____	_____
27640.000-0004	_____	_____
27640.000-0005	_____	_____
27640.000-0006	_____	_____
27640.000-0007	_____	_____
27640.000-0009	_____	_____
27640.000-0010	_____	_____
27640.000-0011	_____	_____
27640.000-0012	_____	_____
27640.000-0013	_____	_____
27640.000-0014	_____	_____
27640.000-0015	_____	_____



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27640.000-0016		
27640.000-0017		
27640.000-0018		
27640.000-0019		
-*		
27640.000-0021		
27640.000-0022		
27640.000-0023		
27640.000-0024		
27640.000-0025		
27640.000-0026		
-*		
27640.000-0028		
27640.000-0029		
27640.000-0030		
27640.000-0031		
-*		
27640.000-0033		
27640.000-0034		
27640.000-0035		
27640.000-0036		
27640.000-0037		
27640.000-0038		
27640.000-0039		
27640.000-0040		
27640.000-0041		
27640.000-0042		



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 38 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **5 Day**

SPECIAL INSTRUCTIONS:

Please include results in electronic (csv) format.

22

November 1, 2023



John Yuly
PBS Environmental - Portland
4412 S Corbett Ave.
Portland, OR 97239

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2317257.00

Client Project: 27640.000 Phase 0001
Location: N-A

Dear Mr. Yuly,

Enclosed please find test results for the 4 sample(s) submitted to our laboratory for analysis on 10/31/2023.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nick Ly'.

Nick Ly, Technical Director

The logo for NVLAP (National Voluntary Laboratory Accreditation Program). It features the letters 'NVLAP' in a large, stylized, outlined font. The 'P' is slightly larger and more prominent than the other letters.

Testing

Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Portland
Address: 4412 S Corbett Ave.
Portland, OR 97239

Batch #: 2317257.00

Client Project #: 27640.000 Phase 0001

Date Received: 10/31/2023

Samples Received: 4

Samples Analyzed: 4

Method: EPA/600/R-93/116

Attention: Mr. John Yuly

Project Location: N-A

Lab ID: 23104399 **Client Sample #: 27640.000-0008**

Location: N-A

Layer 1 of 2	Description: Tan fibrous material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: % None Detected ND
		Binder/Filler, Wood flakes, Paint	Wood fibers 97%	
Layer 2 of 2	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: % None Detected ND
		Mastic/Binder, Fine particles	Cellulose 2%	

Lab ID: 23104400 **Client Sample #: 27640.000-0020**

Location: N-A

Layer 1 of 2	Description: White ceramic tile	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: % None Detected ND
		Ceramic/Binder, Fine particles	None Detected ND	
Layer 2 of 2	Description: Yellow brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: % None Detected ND
		Mastic/Binder, Fine particles	None Detected ND	

Lab ID: 23104401 **Client Sample #: 27640.000-0027**

Location: N-A

Layer 1 of 2	Description: Tan fibrous material with paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: % None Detected ND
		Binder/Filler, Wood flakes, Paint	Cellulose 96%	
Layer 2 of 2	Description: Brown brittle mastic	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: % None Detected ND
		Mastic/Binder, Fine particles	None Detected ND	

Sampled by: Client

Analyzed by: Akane Yoshikawa

Reviewed by: Nick Ly

Date: 11/01/2023

Date: 11/01/2023

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Portland

Address: 4412 S Corbett Ave.
Portland, OR 97239

Batch #: 2317257.00

Client Project #: 27640.000 Phase 0001

Date Received: 10/31/2023

Samples Received: 4

Samples Analyzed: 4

Method: EPA/600/R-93/116

Attention: Mr. John Yuly

Project Location: N-A

Lab ID: 23104402

Client Sample #: 27640.000-0032

Location: N-A

Layer 1 of 3

Description: White ceramic tile with tan brittle coating material

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Ceramic/Binder, Fine particles

None Detected ND

None Detected ND

Layer 2 of 3

Description: Beige brittle mastic

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Mastic/Binder, Fine particles

None Detected ND

None Detected ND

Layer 3 of 3

Description: Trace amount of white crumbly material with debris

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Binder/Filler, Fine particles, Debris

Synthetic fibers 6%

None Detected ND

Cellulose 2%

Sampled by: Client

Analyzed by: Akane Yoshikawa

Reviewed by: Nick Ly

Date: 11/01/2023

Date: 11/01/2023

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES



Company PBS Environmental - Portland
Address 4412 S Corbett Ave.
 Portland, OR 97239
Project Manager Mr. John Yuly
Phone (503) 248-1939
NVL Batch Number 2317257.00
TAT 5 Days **AH** No
Rush TAT
Due Date 11/7/2023 **Time** 9:30 AM
Email john.yuly@pbsusa.com
Fax (503) 248-0223

Project Name/Number: 27640.000 Phase 0001
Project Location: N-A

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 4 **Rush Samples**

	Lab ID	Sample ID	Description	A/R
1	23104399	27640.000-0008		A
2	23104400	27640.000-0020		A
3	23104401	27640.000-0027		A
4	23104402	27640.000-0032		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	UPS				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	10/31/23	930
Analyzed by	Akane Yoshikawa		NVL	11/1/23	
Results Called by					
☐ Faxed ☐ Emailed					

Special Instructions:

Date: 10/31/2023
 Time: 12:50 PM
 Entered By: Kelly AuVu



2317257

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 27640.000 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: October 30, 2023

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Name

Authorized Signature

Date

Time

RECEIVER

Date Received:

Company: NVL Labs, Inc.

Address: 4708 Aurora Ave. North
Seattle, WA 98103
(206)547-0100

Name

Authorized Signature

Date

Time

Sender's ID No.

Brief Description

Receiver's ID No.

27640.000-0008

27640.000-0020

27640.000-0027

27640.000-0032

Please analyze the enclosed 4 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 5 Day

SPECIAL INSTRUCTIONS:

Please include results in electronic (csv) format.

22

LEAD SAMPLE INVENTORY

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB27640.000-1001	Paint	<12.7 ppm	Southeast entry; wall, gypsum, tan, good	R.J. Lee Group
LB27640.000-1002	Paint	334 ppm	Southeast entry; wall, plaster, yellow, poor	R.J. Lee Group
LB27640.000-1003	Paint	<13.9 ppm	Northeast viewing area; trim, wood, brown, good	R.J. Lee Group
LB27640.000-1004	Paint	8,890 ppm	East kids area; ceiling, plaster, green, poor	R.J. Lee Group
LB27640.000-1005	Paint	<11.8 ppm	Southwest storage; wall, gypsum, gray, good	R.J. Lee Group
LB27640.000-1006	Paint	4,620 ppm	Womens bathroom; wall, plaster, brown, good	R.J. Lee Group
LB27640.000-1007	Paint	670 ppm	Exterior south; siding, cement, tan, good	R.J. Lee Group
LB27640.000-1008	Paint	<13.3 ppm	Exterior south; railing, metal, red, poor	R.J. Lee Group

LABORATORY REPORT

PBS Engineering & Environmental
4412 South Corbett Ave
Portland, OR 97239

Attn: John Yuly
Phone: 503-248-1939

Email: john.yuly@pbsusa.com

RJ Lee Group Job No.: PA311020230004
Samples Received: October 31, 2023
Report Date: November 7, 2023
Client Project: 27640.000 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/ Analysis: EPA 3050B / EPA 6010C-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB27640.000-1001	PA311020230004-001	NP	Lead	< 0.00127	< 12.7	0.00127	12.7	11/7/2023	A
LB27640.000-1002	PA311020230004-002	NP	Lead	0.0334	334	0.00121	12.1	11/7/2023	A
LB27640.000-1003	PA311020230004-003	NP	Lead	< 0.00139	< 13.9	0.00139	13.9	11/7/2023	A
LB27640.000-1004	PA311020230004-004	NP	Lead	0.889	8890	0.0124	124	11/7/2023	A
LB27640.000-1005	PA311020230004-005	NP	Lead	< 0.00118	< 11.8	0.00118	11.8	11/7/2023	A
LB27640.000-1006	PA311020230004-006	NP	Lead	0.462	4620	0.0214	214	11/7/2023	A
LB27640.000-1007	PA311020230004-007	NP	Lead	0.0670	670	0.00204	20.4	11/7/2023	A
LB27640.000-1008	PA311020230004-008	NP	Lead	< 0.00133	< 13.3	0.00133	13.3	11/7/2023	A

Comments:

Report Qualifiers (Q):

P : PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)
N : NY ELAP Accredited (NY ELAP Lab Code 10884)

A : AIHA LAP, LLC Accredited (Lab ID 100364)

— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accreditations

E = Value above highest calibration standard

J = Value below lowest calibration standard but above MDL (Method Detection Limit)

L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits

H = Holding times for preparation or analysis exceeded

B = Analyte detected in the associated Method Blank

S = Spike Recovery outside accepted limits

R = RPD (relative percent difference) outside accepted limits

D = RL (reporting limit verification) outside accepted limits

NP = Not Provided

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

This laboratory operates in accord with ISO 17025:2017 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to <http://www.rjlg.com/about-us/accreditations/> for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropriate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.



Erin Repine
Scientist



PA311020230004

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 27640.000 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: October 30, 2023

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Name

Authorized Signature

Date

RECEIVER

Date Received: 10/31/23 11:00am

Company: R.J. Lee Group
Address: 350 Hochberg Road
Monroeville, PA 15146
724-325-1776

Erica Schumacher

Name

Erica Schumacher 10/31/23 11:00am

Authorized Signature

Date

Sender's ID No.

LB27640.000-1001
LB27640.000-1002
LB27640.000-1003
LB27640.000-1004
LB27640.000-1005
LB27640.000-1006
LB27640.000-1007
LB27640.000-1008

Brief Description

Receiver's ID No.

ANALYSIS REQUESTED:

- LEAD: ☒ Paint
☐ Wipe
☐ Soil/Misc.
☐ Air
☐ TCLP

Please analyze the enclosed 8 sample(s) for LEAD content using Atomic Absorption Method.
PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

5 Day

SPECIAL INSTRUCTIONS:

THIS IS TO CERTIFY THAT

JAMES MASTANDUNO

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR / MANAGEMENT

PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 01/05/2023

Course Location: Online

Certificate: IMR-23-4993B



CCB #SRA0615 4-Hr Training

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 01/05/2024

For verification of the authenticity of this certificate contact:
PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939

A handwritten signature in black ink, appearing to read "Andy Fridley", is written over a horizontal line.

Andy Fridley, Instructor