

## **Notice of Intent to Remove Asbestos**

Case #: 24-202

4/1/2024

153697845

Approved

11815 NE 99th Street, Suite 1294

Vancouver, WA 98662 Voice: 360-574-3058 Fax: 360-576-0925

Web: https://www.swcleanair.gov Email: Tina@swcleanair.gov

Reviewed by SWCAA: Brian Fallon

Date Received: 4/1/2024

Amendment: 0

, ,

Date Paid:

Receipt #:

SWCAA Fee: \$294.00

### This notification MUST be present at all times at the asbestos project sit

\*\*\* EMERGENCY NOTICE \*\*\* Quantity to be removed: 150 Square Feet **O** Linear Feet Workshift days: T W Workshift hours: 4:30 p.m. - 1:00 a.m. Project Completion date: 4/3/2024 Project starting date: 4/2/2024 Site Name: SW Peace Health Wound Care Clinic Site address: 8716 F Mill Plain Boulevard Location of Asbestos: 1st floor office and lobby areas City/State/Zip: Vancouver 98664 WA County: CLARK COUNTY ☐ Demolition of Structure (Notification of Demolition required) ✓ Asbestos survey conducted? No survey reason: Certification #: IRO-23-7306B AHERA Inspector: Brian Wehner Material to be Removed: ☐ Fireproofing ☐ Popcorn Ceiling ☐ Sheet Vinyl ■ Boiler Insulation ☐ CAB ☐ Duct Tape ☐ Air Cell CA Pipe ✓ VAT ☐ Duct Paper ☐ Mag Pipe Insulation ☐ Other Mastic **Control Methods:** ✓ N.P Enclosure ☐ Glove Bag ☐ Mini Enclosure ☐ Wrap and Cut ✓ Water ✓ HEPA Vac Other Phone: 360-574-8400 **Asbestos Contractor:** Performance Abatement Services Mailing Address: 13600 NE 10th Ave, Vancouver, WA, 98685 Email: Certification ##: ABCN00001016 Phone: 360-574-8400 Supervisor: Francisco Tejada Phone: 206-510-8038 **Property Owner:** Peace Health Mailing Address: 8716 E Mill Plain Blvd, Vancouver WA 98664 Asbestos Disposal Site: Wasco County Landfill: 2550 Steele Rd, The Dalles, OR, 97058-

# I DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS NOTIFICATION IS, TO THE BEST OF MY KNOWLEDGE, ACCURATE AND COMPLETE.

Submitter Name:	Randy Johnson	Representing:	Performance Abatement Servi
Submitter Title:	Estimator	Date Submitted	4/1/2024



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# **Pre-Renovation Limited Hazardous Building Materials Survey Report**

PeaceHealth Southwest Medical Center Wound Healing Center 8716 E Mill Plain Boulevard Vancouver, Washington 98664

### Prepared for:

### PeaceHealth

General Information	1.1
Inspection Summary	1.2
Survey Drawing	HS1
Hazardous Material Sample Inventories	2.1
Laboratory Data	Not Numbered
AHERA Certificate	Not Numbered

October 2023 PBS Project 23867.078



### **General Information**

### **BUILDING DATA**

Wound Healing Center 8716 E Mill Plain Boulevard Vancouver, Washington 98664

### **CLIENT DATA**

PeaceHealth 1115 SE 164<sup>th</sup> Ave Vancouver, Washington 98683

### **Survey Scope**

PBS Engineering and Environmental Inc. (PBS) has performed a limited pre-renovation hazardous building materials survey of accessible areas within the scope of work at the PeaceHealth Wound Healing Center (Building) and compiled this report with the following information:

- Inspection Summary:
  - Asbestos-containing building materials
  - Lead paint and building material survey
  - Suspect polychlorinated biphenyl (PCB) containing equipment
  - Mercury-containing light fixtures
- Hazardous materials sample inventories including laboratory analytical data of bulk materials sampled
- Floorplan drawings indicating hazardous material sample locations

With regards to asbestos, PBS endeavored to locate all assessable suspect asbestos-containing materials within the Building; however, suspect asbestos-containing materials may be present and concealed inside energized and/or inaccessible equipment and interstitial 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. Lead paint sampling is representative of only major components of the Building.

PBS has conducted a physical inspection of the site; 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.

Brian Wehner Industrial Hygienist/Prime Inspector Accreditation Number: IR-22-7306B		Seireadan Kindrick Industrial Hygienist Accreditation Number	: IN-23-1288C
Signature	Date	Signature	Date
©2023 PBS Engineering a	nd Environmental Inc		



### **INSPECTION SUMMARY**

DATES	SURVEYED BY	ACTIVITY
10/2023	Brian Wehner and Seireadan Kindrick	Begin Inspection
10/2023	Brian Wehner	Complete Report

PBS has investigated accessible areas of the Building to locate suspect asbestos-containing materials (ACMs). Suspect materials may be present in concealed areas (e.g., behind walls, above ceilings, under floors, and other interstitial spaces). This survey is limited in nature due to inaccessible concealed conditions and occupancy of the Building. It should be noted that exterior materials, (including roofing, caulking, etc.) were not included in the scope of this Survey. 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 that were not sampled may contain asbestos. If these materials will be impacted by renovation activities they should be tested to verify asbestos content prior to impact.

(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously tested Positive, (SF) Square Feet, (LF) Linear Feet, (EA) Each.

See sample inventory for specific results.

<u>Results</u>	Material Description	<u>Location</u>	<u>Details</u>
(+) 2%-4%	Residual Black Mastic	Throughout the North End of the Building Under Carpeting and Wood Grain Vinyl Sheet Flooring	1300 SF, Non-friable, Good Condition, Response Action: Removal Required Prior to Impact via Renovation Activities.
(+) 2%	Off-White Vinyl Floor Tile and Black Mastic	North End of the Building Under Carpet	500 SF, Non-friable, Good Condition, Response Action: Removal Required Prior to Impact via Renovation Activities.
(+) 35%	Yellow Patterned Sheet Flooring and Black Mastic	North Area of the Waiting Room Under Carpet	100 SF, Non-friable, Good Condition, Response Action: Removal Required Prior to Impact via Renovation Activities.



### MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on Asbestos School Hazard Abatement Reauthorization Act (ASHARA) sampling minimums and testing by National Voluntary Laboratory Accreditation Program (NVLAP) participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content.

Material	Location
<ul> <li>Vinyl Floor Tile and Mastic:</li> <li>12" Gray with black spots with yellow/orange mastic</li> <li>12" White with yellow/clear mastic</li> </ul>	Offices and exam rooms throughout the building
Gypsum Wallboard/Joint Compound	Throughout the building
Duct Seam Green/Gray Caulking	Throughout the building
2'x4' White Fissured with Pinholes Lay-in Ceiling Tile	Throughout the building
Gray Flakey Sink Undercoating	In exam rooms throughout the building
4" Light Gray Covebase with Cream Mastic	Throughout the building
2'x4' Off-White Large Fissures Lay-in Ceiling Tile	Throughout the building
Yellow Flakey Carpet Mastic	Throughout the building
4" Gray Covebase with Tan Rubbery Mastic	Throughout the building
Tan Pebbled/Sand Pattern Vinyl Sheet Flooring with Yellow Mastic	Patient Restrooms in the suite
6" Black Covebase with Cream Mastic	Chamber room 127
White/Gray Leveling Compound with Yellow Mastic	Throughout the building
Black Sink Undercoating	Staff 116A
Gray Speckled Sheet Flooring with Yellow Mastic	Staff toilet 122
White Firm Perimeter Doorframe Caulk	North entry from waiting room
2'x2' White Pinholes with Small Fissures Lay-in Ceiling Tiles	Throughout the waiting room
Tan Sheet Flooring with Yellow Mastic	Toilet 102 in the waiting room
6" Rose/Gray Covebase with Cream Mastic	Toilet 102 in the waiting room
4" Black Covebase with Cream Mastic	Room 167 Southwest corner



### **BACKGROUND**

On October 5 and 20, 2023, PBS Engineering and Environmental Inc. (PBS) performed a pre-renovation, non-destructive, limited hazardous materials survey at the PeaceHealth Wound Healing Center as part of the Wound Healing Center Remodel Project located at 8716 E Mill Plain Boulevard in Vancouver, Washington. The survey was requested by PeaceHealth as part of the planned renovation of the Building.

The purpose of the survey was to identify regulated hazardous materials for pre-renovation cost analysis and to satisfy the Washington State Department of Labor and Industries' requirement that a "good faith inspection" for asbestos-containing materials (ACMs) be conducted prior to renovation or demolition activities. The survey is also intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements.

During the survey, samples were collected of all accessible suspect ACM. Asbestos samples were submitted under chain of custody to Eurofins Lab/Cor Inc. in Portland, Oregon, for polarized light microscopy (PLM) asbestos analysis. Paint chip samples were collected from representative building components to quantify lead content. Lead samples were submitted under chain of custody to RJ Lee Group in Monroeville, Pennsylvania, for analysis by flame atomic absorption spectrometry (FLAAS). In addition, representative light fixtures were inspected for PCB-containing ballasts and mercury-containing vapor light tubes.

### **BUILDING DESCRIPTIONS**

The Wound Healing Center is located southwest adjacent of the PeaceHealth Southwest Medical Center Campus in Vancouver, WA. The building currently contains exam rooms and offices. The Wound Healing Center is a single-story slab on grade, metal framed structure. Interior wall finishes consist primarily of gypsum wallboard systems. Floors are finished with vinyl floor tile, carpet, and sheet vinyl flooring. Ceilings are lay-in ceiling tile grids throughout.

### **ASBESTOS SUMMARY**

PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector(s) surveyed the building to determine the presence, location, and approximate quantity of ACM. A total of 47 bulk samples of building materials, suspected of containing asbestos, were collected. Asbestos was detected in the following materials:

- Asbestos-containing black mastic was discovered in various locations throughout the Building. The
  material was observed under carpeting and wood grain vinyl sheet flooring. See survey drawings for
  approximate locations.
- Asbestos-containing off-white vinyl floor tile was observed under carpet in the North end of the building in Corridors 124 and 115. See survey drawings for approximate locations.
- Asbestos-containing yellow patterned vinyl sheet flooring was found under carpet in the North side of the waiting room. See survey drawing for approximate location.

Refer to the attached sample inventory for greater detail of the samples collected and corresponding results.

### **Asbestos Regulations**

PBS recommends that all ACM to be impacted by the project be removed prior to renovation activities. A qualified Washington State licensed asbestos abatement contractor should be employed to remove all such ACM according to applicable local, state, and federal regulations.



The Occupational Safety and Health Administration (OSHA) provides federal regulations governing asbestos (29 CFR Part 1926, 1101). These regulations have made significant changes in work procedures and how ACMs are removed. OSHA believes that the single biggest problem 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. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS); 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and the Southwest Clean Air Agency (SWCAA) regulations.

### **LEAD SUMMARY**

Paint was sampled for lead content for the sake of hazard communication. Three paint chip samples were collected from major representative interior building components. The samples were analyzed by FLAAS. Lead was not detected above the analytical limit of detection in any of the 3 paint chip samples tested.

Refer to the attached lead sample inventory for more information on lead content, components tested, sample description, and location.

### **Lead-Based Paint Regulatory Issues**

There are several applicable definitions of lead-based paint. The Consumer Product Safety Commission limit (for consumer products) is 0.009% or 90 ppm or greater. The Department of Housing and Urban Development (HUD) defines lead-based paint as that which contains 0.5% or 5,000 ppm. Under OSHA, **any amount** of lead triggers requirements in the OSHA Lead in Construction Standard, 29 CFR 1926.62.

Washington Labor and Industries regulations for Lead in Construction (WAC 296-62-155), govern the impact of painted surfaces with detectable concentrations of lead. The WAC 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 and/or renovation of structures where lead-containing paint is present.

### Disposal

Under WAC 173-303 Dangerous Waste Regulations, waste characterization should be performed via Toxicity Characteristic Leaching Procedure (TCLP) in accordance with EPA Method 1311 for waste streams suspected of containing lead prior to disposal.

### POLYCHLORINATED BIPHENYLS (PCBS) SUMMARY

PBS inspected representative light fixture ballasts throughout the building and found newer electronic ballasts. Electronic ballasts do not have potential PCB-containing oil; however, magnetic ballasts do. Magnetic ballasts, regardless of "No PCBs" labeling, should be presumed to contain PCBs and should be properly removed, stored, transported, and disposed of in accordance with applicable regulations. Because of the limited nature of the light fixture ballast investigation, PBS recommends that all light fixture ballasts be inspected prior to demolition activities. If there is visual evidence that a ballast is magnetic/PCB-containing or there is suspicion of a PCB leak or spill, a qualified contractor should handle and dispose of the light ballast and contaminated fixtures.

### **PCB** Regulations

In 1976, Congress banned PCB manufacturing in the United States due to their toxic effects. In July 1979, EPA phased out the processing and use of PCBs, except in totally enclosed equipment. Some sealants installed



before the 1976 ban or after 1979 may contain PCBs. EPA prohibits the use or continued use of bulk products that contain 50 ppm or greater PCBs in accordance with 40 Code of Federal Regulations (CFR), Part 761. In addition, EPA requires disposal of these materials in accordance with 40 CFR, section 761.62 - Disposal of PCB Bulk Product Waste.

PBS recommends that all PCB-containing (>50 ppm) materials and equipment be removed and disposed of in accordance with 40 CFR Part 761 and appropriate EPA Guidance documents. All potential PCB handling and disposal should be performed by trained and experienced hazardous materials remediation professionals using appropriate engineering controls and work practices, in accordance with all applicable local, state, and federal regulations pending an initial exposure assessment. See project specifications and drawings regarding the project requirements for PCB handling and disposal.

### **MERCURY SUMMARY**

Fluorescent and high-intensity discharge (HID) lamps are known to contain mercury. PBS noted approximately 12 4-foot fluorescent lamps. PBS recommends that all fluorescent and HID lamps be handled and recycled in accordance with applicable regulations prior to demolition activities. Breakage of lamps is to be prevented. All lamps should be properly packaged and recycled or disposed of at a facility permitted to accept such material. The Division of Occupational Safety and Health (DOSH) requires specific training, handling, engineering controls, and disposal practices when performing this work. The remaining lighting in the building was comprised of approximately 100 LED strips.

### **Mercury Regulations**

Please refer to the following documents for requirements regarding mercury-containing equipment:

- 1. US Department of Labor, Occupational Safety and Health Administration (OSHA)
- 2. RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273

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



# **Attachments**

Survey Drawing (HS1)
Hazardous Material Sample Inventories
Lab Reports
Inspector Certifications

 THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.

2. ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.

# LEGEND

ASBESTOS-CONTAINING RESIDUAL BLACK MASTIC UNDER CARPET

ASBESTOS-CONTAINING VINYL FLOOR TILE WITH ASBESTOS-CONTAINING BLACK MASTIC UNDER CARPET

ASBESTOS-CONTAINING VINYL SHEET FLOOR COVERING WITH BLACK MASTIC ON CONCRETE UNDER CARPET

ASBESTOS-CONTAINING BLACK MASTIC UNDER NON-ASBESTOS WOOD GRAINED VINYL SHEET FLOORING

# **ASBESTOS SAMPLE SYMBOLS**

DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES

MATERIAL SYMBOL

OT NEGATIVE POSITIVE

TESTED - +

THERMAL SYSTEM INSULATION
SURFACING MATERIAL

INVENTORY OF ASBESTOS SAMPLES						
DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED			
<b>♦</b> 001	23867.078-0001	(-/-)	VINYL FLOOR TILE/MASTIC (01)			
<b>♦</b> 002	23867.078-0002	(-/-)	LAY-IN CEILING TILE (01)			
<b>♦</b> 003	23867.078-0003	(-/-)	GYPSUM WALLBOARD/			
♥		,	JOINT COMPOUND			
<b>♦</b> 004	23867.078-0004	(-)	CAULK (01)			
<b>1</b> 005	23867.078-0005	(-)	SINK UNDÉRCOATING (01)			
♦ 006	23867.078-0006	(-/-)	COVEBASE/MASTIC (01)			
007	23867.078-0007	(-/-)	LAY-IN CEILING TILE (02)			
800 ♦	23867.078-0008	(-)	MASTIC (01)			
Ď009	23867.078-0009	(-)	SINK UNDERCOATING (01)			
♦010	23867.078-0010	(-/-)	GYPSUM WALLBOARD/			
<b>A</b> 3.13		( ' )	JOINT COMPOUND			
<b>♦</b> 011	23867.078-0011	(-/-/-)	VINYL FLOOR TILE/MASTIC (01)			
<b>♦</b> 012	23867.078-0012	(-/-)	COVEBASE/MASTIC (02)			
013	23867.078-0013	(-)	VINYL FLOOR TILE/MASTIC (02)			
<b>♦</b> 014	23867.078-0014	(-/-)	GYPSUM WALLBOARD/			
<b>V</b> • · ·		( ' )	JOINT COMPOUND			
<b>♦</b> 015	23867.078-0015	(-/-)	SHEET FLOOR COVERING (01)			
016	23867.078-0016	(-)	MASTIC (01)			
● 017	23867.078-0017	(+)	MASTIC (02)			
018	23867.078-0018	(-/-)	COVEBASE/MASTIC (03)			
019	23867.078-0019	(-/+)	SHEET FLOOR COVERING (02)			
020	23867.078-0020	(-/<1%)	LEVELING COMPOUND			
021	23867.078-0021	(-/+/+)	VINYL FLOOR TILE/MASTIC (03)			
022	23867.078-0022	(-/+/+)	VINYL FLOOR TILE/MASTIC (03)			
023	23867.078-0023	(-)	LEVELING COMPOUND			
024	23867.078-0024	(-/-)	VINYL FLOOR TILE/MASTIC (02)			
025 ♦	23867.078-0025	(-/-/-/-)	GYPSUM WALLBOARD/			
<b>A</b>		( , , ,	JOINT COMPOUND			
<b>♦</b> 026	23867.078-0026	(-/-)	LAY-IN CEILING TILE (01)			
<b>1</b> 027	23867.078-0027	(-)	SINK UNDERCOATINĠ (02)			
<b>♦</b> 028	23867.078-0028	(-/-)	GYPSUM WALLBOARD/			
•		` ,	JOINT COMPOUND			
<b>♦</b> 029	23867.078-0029	(-/-)	VINYL FLOOR TILE/MASTIC (01)			
<b>♦</b> 030	23867.078-0030	(-/-)	LAY-IN CEILING TILE (02)			
<b>♦</b> 031	23867.078-0031	(-/-)	GYPSUM WALLBOARD/			
•		` ,	JOINT COMPOUND			
<b>♦</b> 032	23867.078-0032	(-/-/-)	SHEET FLOOR COVERING (03)			
<b>♦</b> 033	23867.078-0033	(-)	CAULK (02)			
<b>♦</b> 034	23867.078-0034	(-/-)	LAY-IN CEILING TILE (03)			
♦ 035	23867.078-0035	(-/-/-/+)	LEVELING COMPOUND (			
♦ 036	23867.078-0036	(-/+/+)	SHEET FLOOR COVERING (04)			
♦ 037	23867.078-0037	(-/+/-)	MASTIC (02)			
<b>♦</b> 038	23867.078-0038	(-/-)	SHEET FLOOR COVERING (05)			
<b>♦</b> 039	23867.078-0039	(-/-/-/-)	COVEBASE/MASTIC (04)			
♦ 040	23867.078-0040	(+/<1%)	MASTIC (2)			
<b>♦</b> 041	23867.078-0041	(-/-)	LEVELING COMPOUND			
♦ 042	23867.078-0042	(+/-)	MASTIC (2)			
<b>♦</b> 043	23867.078-0043	(-/-/-)	COVEBASE/MASTIC (1)			
Åολλ	23867 078 0044	(_) <i>′</i>	LAV-IN CEILING THE (1)			

23867.078-0044 (-)

23867.078-0047 (-/-)

# LEAD SAMPLE SYMBOLS

DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES

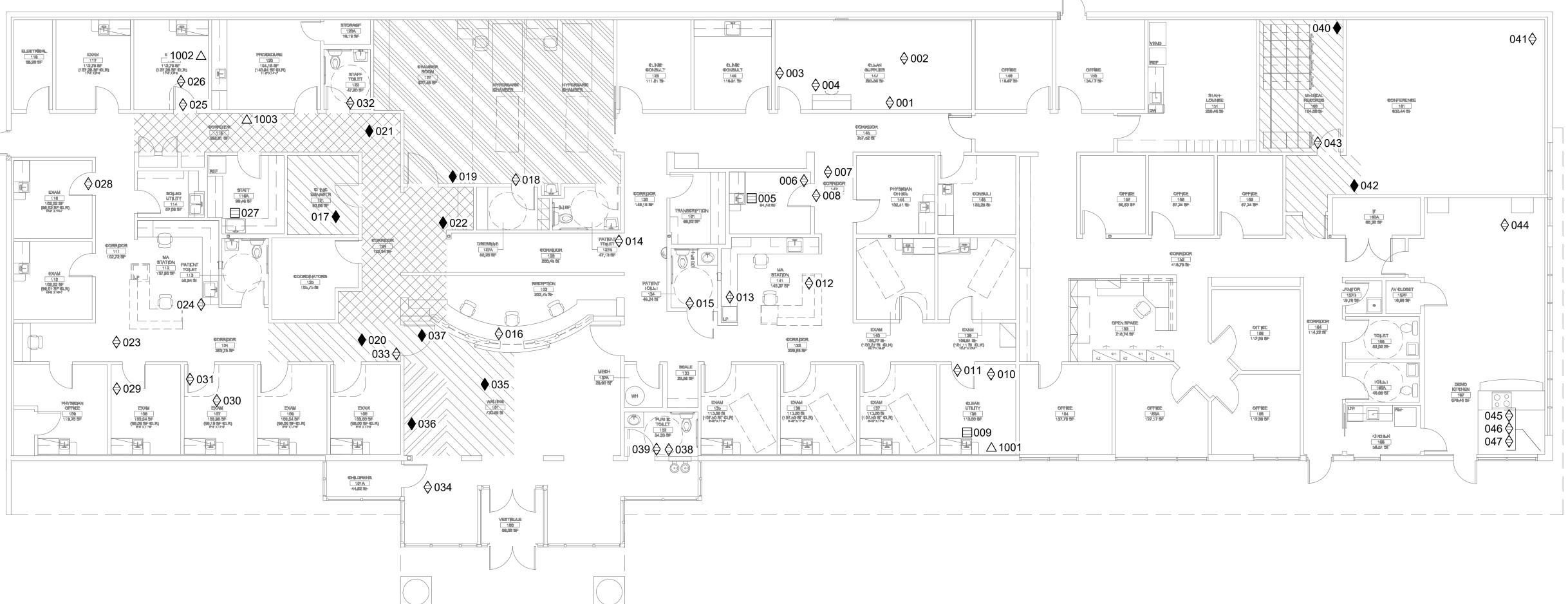
MATERIAL SYMBOL

▲ LEAD DETECTED

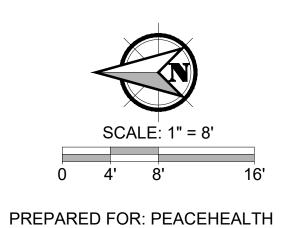
 $\triangle$  BELOW THE LIMIT OF DETECTION

# INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
△1001	23867.078-	<12.1	PAINT ON ROOM 138, WEST WALL, GYSUM, SEAFOAM, INTACT
△1002	23867.078-	<12.7	PAINT ON ROOM 118, SOUTH WALL, GYPSUM, GRAY/GREEN, INTACT
△1003	23867.078-	<12.0	PAINT ON CORRIDOR 115, EAST WALL, GYPSUM, BEIGE, INTACT



FIRST FLOOR



PBS Engineering and Environmental Inc. 1325 Tech Center Drive, Suite 140 Vancouver, WA 98683 360.695.3488 pbsusa.com



NEW WASHINGTON

JOUS MATERIAL SURVEY PLAN
UND HEALING CEI

NO REVISION DATE BY APPD HA HA 871

DRAWN BY
JAB
CHECKED:
BW
DATE:
OCTOBER 2023
PROJECT NUMBER:
23867.078

SHEET DRAWING NO:

HS1

HEET 1 OF 1

LAY-IN CEILING TILE (1)

GYPSUM WALLBOARD/ JOINT COMPOUND

<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
23867.078-0001	Vinyl Floor Tile/M	lastic (01)		Room 147, west side, 12" gray with black and white spots vinyl floor tile with yellow/orange mastic	
		Layer:	Description:	Analysis:	
		Layer 01	vinyl, gray/black	No Asbestos Detected	
		Layer 02	mastic, clear/tan	No Asbestos Detected	
23867.078-0002	Lay-in Ceiling Tile	e (01)	Room 147, 2'x4' white fissured w	rith pinholes lay-in ceiling	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	coating, white	No Asbestos Detected	
		Layer 02	compressed fibers, gray	No Asbestos Detected	
23867.078-0003	Gypsum Wallboa Compound	rd/Joint	Room 147, north wall, white wall compound	board with white	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	fine compact powder, off-white	No Asbestos Detected	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected	
23867.078-0004	Caulk (01)		Room 147, on HVAC duct seams caulking	, gray/green flexible	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	rubbery material, gray	No Asbestos Detected	
23867.078-0005	Sink Undercoatin	g (01)	Room 143, on stainless steel, gra	y flakey sink undercoating	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	loose flaky material, gray	No Asbestos Detected	
23867.078-0006	Covebase/Mastic	(01)	Room 143, south wall, 4" light gr mastic	ay covebase with cream	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	rubbery material, gray	No Asbestos Detected	
		Layer 02	mastic, off-white	No Asbestos Detected	
23867.078-0007	Lay-in Ceiling Tile	e (02)	Outside room 143, hallway, 2'x4' lay-in ceiling tile	off-white, large fissures	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	coating, white	No Asbestos Detected	
		Layer 02	compressed fibers, gray	No Asbestos Detected	



<b>Code</b> 23867.078-0008	Material Mastic (01)		Location Outside room 143, under carpet	Results on concrete, vellow,	<u>Lab</u> Eurofins LabCor
	,		flakey carpet mastic	· · · · · · · · · · · · · · · · · · ·	PDX
		Layer:	Description:	Analysis:	
		Layer 1	loose mastic, white/tan	No Asbestos Detected	
23867.078-0009	Sink Undercoatin	g (01)	Room 138, on stainless steel, gra	y flakey sink undercoating	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	loose flaky material, gray	No Asbestos Detected	
23867.078-0010	Gypsum Wallboa Compound	rd/Joint	Room 138, east wall, white wallb	oard with white	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	fine compact powder, off-white	No Asbestos Detected	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected	
23867.078-0011	23867.078-0011 Vinyl Floor Tile/Mastic (01)		Room 138, east side, 12" gray with black and white spots vinyl floor tile with yellow/orange mastic		Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	mastic, tan	No Asbestos Detected	
		Layer 02	hard vinyl, gray/black/white	No Asbestos Detected	
		Layer 03	mastic, tan	No Asbestos Detected	
23867.078-0012	Covebase/Mastic	(02)	Station 141, on casework, 4" gray rubbery mastic	covebase with tan	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	rubbery material, gray	No Asbestos Detected	
		Layer 02	mastic, tan	No Asbestos Detected	
23867.078-0013	Vinyl Floor Tile/M	lastic (02)	Station 141, on concrete, 12" wh yellow/clear mastic	ite vinyl floor tile with	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	hard vinyl, off-white	No Asbestos Detected	
23867.078-0014	Gypsum Wallboa Compound	rd/Joint	Corridor 128, south end, east wa white compound	ll, white wallboard with	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	fine compact powder, off-white	No Asbestos Detected	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected	

<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
23867.078-0015	Sheet Floor Cove	ring (01)	•	Patient toilet 134, tan pebbled/sand pattern vinyl sheet flooring with yellow mastic, on concrete	
		Layer:	Description:	escription: Analysis:	
		Layer 01	flexible vinyl, speckled pattern, off-white/gray	No Asbestos Detected	
		Layer 02	mastic, clear	No Asbestos Detected	
23867.078-0016	Mastic (01)		Reception, under carpet on con-	crete, yellow flakey carpet	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	mastic, tan	No Asbestos Detected	
23867.078-0017	Mastic (02)		Room 121, under carpet squares	s on concrete, residual	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	mastic, black/tan	4% Chrysotile	
23867.078-0018	Covebase/Mastic	(03)	Chamber room 127, west wall, 6 cream mastic	" black covebase with	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	rubbery material, gray	No Asbestos Detected	
		Layer 02	mastic, white	No Asbestos Detected	
23867.078-0019	Sheet Floor Cove	ring (02)	Chamber room 127, on concrete flooring with gray mastic and bla		Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	compact woven material, tan/gray	No Asbestos Detected	
		Layer 02	mastic, black/tan	2% Chrysotile	
23867.078-0020	20 Leveling Compound Corridor 104, south end, under carpet squares on concrete, gray leveling compound with yellow carpet mastic and residual black mastic		nd with yellow carpet	Eurofins LabCor PDX	
		Layer:	Description:	Analysis:	
		Layer 01	hard compact powder, gray	No Asbestos Detected	
		Layer 02	mastic, tan/black	<1% Chrysotile	
23867.078-0021	Vinyl Floor Tile/M	lastic (03)	Corridor 115, south end under c white vinyl floor tile with black n	•	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	mastic, tan	No Asbestos Detected	
		Layer 02	hard vinyl, off-white	2% Chrysotile	
		Layer 03	mastic, black	2% Chrysotile	

<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
23867.078-0022	Vinyl Floor Tile/M	lastic (03)	Corridor 124, under carpet on co floor tile with black mastic	ncrete, off-white vinyl	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	mastic, tan	No Asbestos Detected	
		Layer 02	hard vinyl, off-white	2% Chrysotile	
		Layer 03	mastic, black	3% Chrysotile	
23867.078-0023	Leveling Compou	ind	Corridor 104 north end, under ca gray leveling compound with yel		Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	mastic, tan with fine powder, gray	No Asbestos Detected	
23867.078-0024	Vinyl Floor Tile/M	lastic (02)	MA station 112, on concrete, 12" yellow mastic	white vinyl floor tile with	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	hard vinyl, off-white	No Asbestos Detected	
		Layer 02	thin mastic, tan	No Asbestos Detected	
23867.078-0025	Gypsum Wallboai Compound	rd/Joint	Room 118, west wall, white wallboard with white compound		Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	paint, white with fine compact powder, off-white	No Asbestos Detected	
		Layer 02	fine compact powder, off- white with paper backing, white	No Asbestos Detected	
		Layer 03	compact chalky material with paper, white	No Asbestos Detected	
		Layer 04	hard compact powder, white	No Asbestos Detected	
23867.078-0026	Lay-in Ceiling Tile	e (01)	Room 118, 2'x4' white fissured w	ith pinholes lay-in ceiling	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	coating, white	No Asbestos Detected	
		Layer 02	compressed fibers, gray	No Asbestos Detected	
23867.078-0027	Sink Undercoating	g (02)	Staff 116A, on stainless steel, bla	ck sink undercoating	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	loose mastic, black	No Asbestos Detected	

<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
23867.078-0028	Gypsum Wallboa Compound	rd/Joint	Room 116 south wall, white wall compound	board with white	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	fine compact powder, off-white	No Asbestos Detected	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected	
23867.078-0029	Vinyl Floor Tile/M	lastic (01)	Room 108 on concrete, 12" gray spots vinyl floor tile with yellow i		Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	hard vinyl, gray/white	No Asbestos Detected	
		Layer 02	mastic, tan	No Asbestos Detected	
23867.078-0030	Lay-in Ceiling Tile	e (02)	Room 107, 2'x4' off-white large f	fissures 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	
23867.078-0031	Gypsum Wallboard/Joint Compound		Room 107, north wall, white wall compound	board with white	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	fine compact powder, off-white	No Asbestos Detected	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected	
23867.078-0032	Sheet Floor Cove	ring (03)	Staff toilet 122, on concrete, gray with yellow mastic	Eurofins LabCor PDX	
		Layer:	Description:	Analysis:	
		Layer 01	flexible vinyl, white/gray	No Asbestos Detected	
		Layer 02	mastic, orange	No Asbestos Detected	
		Layer 03	fine compact powder, gray	No Asbestos Detected	
23867.078-0033	Caulk (02)		North entry from waiting room, a doorframe, white firm caulking	around perimeter	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 1	rubbery material, white	No Asbestos Detected	
23867.078-0034	Lay-in Ceiling Tile	e (03)	Waiting room, northwest area, 2 small fissures lay-in ceiling tiles	'x2' white pinholes with	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	coating, white	No Asbestos Detected	
		Layer 02	compressed fibers, gray	No Asbestos Detected	



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
23867.078-0035	Leveling Compou	nd	Waiting room, north area under concrete, yellow carpet mastic, g compound with black mastic		Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	mastic, tan	No Asbestos Detected	
		Layer 02	hard compact powder, gray	No Asbestos Detected	
		Layer 03	hard compact powder, white	No Asbestos Detected	
		Layer 04	mastic, black	4% Chrysotile	
23867.078-0036	Sheet Floor Cover	ring (04)	Waiting room, north area under yellow patterned sheet flooring	•	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	flexible vinyl, brown/black	No Asbestos Detected	
		Layer 02	fibrous backing, gray	35% Chrysotile	
		Layer 03	mastic, black	2% Chrysotile	
23867.078-0037 Mastic (02)			Waiting room, north area east si concrete, black mastic with (pos	•	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	woven material with coating, white/orange	No Asbestos Detected	
		Layer 02	mastic, black	3% Chrysotile	
		Layer 03	granular compact powder, gray	No Asbestos Detected	
23867.078-0038	Sheet Floor Cover	ring (05)	Toilet 102, on concrete, tan shee	et flooring with yellow	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	flexible vinyl, off-white	No Asbestos Detected	
		Layer 02	fibrous backing, brown	No Asbestos Detected	
23867.078-0039	Covebase/Mastic	(04)	Toilet 102, 6" rose/gray covebase	e with cream mastic	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	rubbery material, gray	No Asbestos Detected	
		Layer 02	mastic, white	No Asbestos Detected	
		Layer 03	mastic, tan	No Asbestos Detected	
		Layer 04	fine compact powder, off-white	No Asbestos Detected	
23867.078-0040	Mastic (2)		Room 160, Under Carpet on Cor Mastic	ncrete, Residual Black	Eurofins LabCor PDX
		Layer:	Description:	Analysis:	
		Layer 01	loose particulate, black	2% Chrysotile	
		Layer 02	loose particulate, yellow	<1% Chrysotile	



Code	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>	
23867.078-0041	Leveling Compou	ınd	Conference Room 161, Under Conference Room 161,	Eurofins LabCor PDX		
		Layer:	Description:	Analysis:		
		Layer 01	compact powder, white	No Asbestos Detected		
		Layer 02	mastic, tan	No Asbestos Detected		
23867.078-0042	Mastic (2)		Conference Room 161, Under Conference Rosidual Black Mastic	arpet on Concrete,	Eurofins LabCor PDX	
		Layer:	Description:	Analysis:		
		Layer 01	loose particulate, black	2% Chrysotile		
		Layer 02	loose particulate, yellow	No Asbestos Detected		
23867.078-0043	7.078-0043 Covebase/Mastic (1)		Room 160, West Wall, 4" Light G Mastic	Room 160, West Wall, 4" Light Gray Covebase with Cream Mastic		
		Layer:	Description:	Analysis:		
		Layer 01	rubbery material, gray	No Asbestos Detected		
		Layer 02	mastic, tan	No Asbestos Detected		
		Layer 03	powdery material, white	No Asbestos Detected		
23867.078-0044	Lay-in Ceiling Tile	e (1)	Room 167, East Area, 2'x4' Off-V Ceiling Tile	Eurofins LabCor PDX		
		Layer:	Description:	Analysis:		
		Layer 1	compressed fibers, gray	No Asbestos Detected		
23867.078-0045	Sheet Floor Cove	ring (6)	Room 167, Southwest Corner, W Flooring with Gray Backing	Eurofins LabCor PDX		
		Layer:	Description:	Analysis:		
		Layer 01	vinyl, orange	No Asbestos Detected		
		Layer 02	woven fibers, white	No Asbestos Detected		
		Layer 03	rubbery material, off-white	No Asbestos Detected		
		Layer 04	loose particulate, gray	No Asbestos Detected		
		Layer 05	loose particulate, white	No Asbestos Detected		
23867.078-0046	7.078-0046 Covebase/Mastic (5)		Room 167, Southwest Corner, 4' Cream Mastic	' Black Covebase with	Eurofins LabCor PDX	
		Layer:	Description:	Analysis:		
		Layer 01	rubbery material, black	No Asbestos Detected		
		Layer 02	mastic, white	No Asbestos Detected		



<u>Code</u>	<u>Material</u>		<u>Location</u>	<u>Results</u>	<u>Lab</u>
23867.078-0047	Gypsum Wallboard/Joint Compound		Room 167, Southwest Corner, W with White Joint Compound	Eurofins LabCor PDX	
		Layer:	Description:	Analysis:	
		Layer 01	paint, off-white with fine compact powder, off-white	No Asbestos Detected	
		Layer 02	compact chalky material with paper, white	No Asbestos Detected	

October 2023

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB23867.078-1001	Paint	<12.1 ppm	Room 138, West wall, gysum, seafoam, intact	R.J. Lee Group
LB23867.078-1002	Paint	<12.7 ppm	Room 118, South wall, gypsum, gray/green, intact	R.J. Lee Group
LB23867.078-1003	Paint	<12.0 ppm	Corridor 115, East wall, gypsum, beige, intact	R.J. Lee Group



October 2023



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# **PLM - Visual Estimate Extended Final Report**

Job Number: 232730

Client: PBS Engineering and Environmental

Address: 4412 S Corbett Avenue

Portland, OR 97239

**Project Name:** 

Project No.: 23867.078 Phase 0001

PO Number: Sub Project: Reference No.:

Report Number: 232730R01 Report Date: 10/12/2023

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

Eurofins Sample #	Client Sample # and Description	Analysis Notes	Date Received
232730 - S1	23867.078-0001 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S2	23867.078-0002 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S3	23867.078-0003 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S4	23867.078-0004 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S5	23867.078-0005 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S6	23867.078-0006 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S7	23867.078-0007 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S8	23867.078-0008 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S9	23867.078-0009 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S10	23867.078-0010 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S11	23867.078-0011 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S12	23867.078-0012 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S13	23867.078-0013 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S14	23867.078-0014 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S15	23867.078-0015 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S16	23867.078-0016 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S17	23867.078-0017 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S18	23867.078-0018 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S19	23867.078-0019 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S20	23867.078-0020 -	PLM - Visual Estimate Extended	10/9/2023
232730 - S21	23867.078-0021 -	PLM - Visual Estimate Extended	10/9/2023





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# **PLM - Visual Estimate Extended Final Report**

Job Number: 232730

Client: PBS Engineering and Environmental

Report Number: 232730R01

Report Date: 10/12/2023

oject Name:	o Engineering and Environmen	Teal	Report Date: 10/12/202		
232730 - S22	23867.078-0022 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S23	23867.078-0023 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S24	23867.078-0024 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S25	23867.078-0025 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S26	23867.078-0026 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S27	23867.078-0027 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S28	23867.078-0028 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S29	23867.078-0029 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S30	23867.078-0030 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S31	23867.078-0031 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S32	23867.078-0032 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S33	23867.078-0033 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S34	23867.078-0034 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S35	23867.078-0035 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S36	23867.078-0036 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S37	23867.078-0037 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S38	23867.078-0038 -	PLM - Visual Estimate Extended	10/9/2023		
232730 - S39	23867.078-0039 -	PLM - Visual Estimate Extended	10/9/2023		





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### PLM - Visual Estimate Extended Final Report

Job Number: 232730 Report Number: 232730R01 Client: PBS Engineering and Environmental Report Date: 10/12/2023

**Project Name:** 

PLM - Visual The submitted sample(s) were analyzed according to the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Estimate Extended 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 HCI, 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,

Ryan Talaski-Brown

**Eurofins - LabCor Portland** 





4321 South Corbett Ave., Ste A Portland, OR 97239

Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

### **BULK SAMPLE ASBESTOS ANALYSIS**

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

Project Notes:								
Client Sample ID:	23867.078	-0001		Sample ID:	S1		Date Analyzed:	10/11/2023
Client Sample Desc	cription:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral F		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01			•					
vinyl, gray/black		95%	-	-	-			NAD
Layer 02								
mastic, clear/tan		5 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulos	Mineral e Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Client Sample ID:	23867.078	-0002		Sample ID:	S2		Date Analyzed:	10/11/2023
Client Sample Desc	cription:			·			Analyst:	Ryan Talaski-Brown
Asbestos Mineral F		Layer						Percent
	F	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01		<b>5</b> 0/						
coating, white		5 %	-	-	-			NAD
Layer 02	ro arov	95%						NAD
compressed fibe	rs, gray Fibrous		- Mineral	-	-			NAD
Other Fibers	Glass	Cellulos		Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	35 %	35 %	-	-		-	-	30 %
Client Sample ID:	23867.078	-0003		Sample ID:	S3		Date Analyzed:	10/11/2023
Client Sample Desc	cription:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral F		Layer						Percent
	F	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
fine compact pov white	wder, off-	6 %	-	-	-			NAD
Layer 02								
compact chalky with paper, white		94 %	-	-	-			NAD
Other Fibers	Fibrous		Mineral			O415		
	Glass	Cellulos		Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %





**Built Environment Testing** Labcor

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

PBS Engineering and Environmental Client:

> 4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

23867.078 Phase 0001 Project Number:

**Project Notes:** 

Homogeneous

23867.078-0004 Client Sample ID: Sample ID: S4 Date Analyzed: 10/11/2023 **Client Sample Description:** Analyst:

Ryan Talaski-Brown

**Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Crocidolite Amosite Asbestos:

Homogeneous

rubbery material, gray 100% NAD

**Other Fibers Fibrous** Mineral

Other Glass Cellulose Wool Synthetic Matrix 100 %

Client Sample ID: 23867.078-0005 Sample ID: S5 Date Analyzed: 10/11/2023

**Client Sample Description:** Analyst: Ryan Talaski-Brown

Asbestos Mineral Fibers Layer Percent

Percent: Chrysotile Crocidolite Amosite Asbestos:

loose flaky material, gray 100%

NAD

**Other Fibers Fibrous** Mineral

Other Glass Cellulose Wool Synthetic Matrix

10 % 90 %

Client Sample ID: 23867.078-0006 Sample ID: S6 Date Analyzed: 10/11/2023

**Client Sample Description:** Analyst: Ryan Talaski-Brown

**Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile **Amosite** Crocidolite Asbestos:

Layer 01

rubbery material, gray 93% NAD

Layer 02

mastic, off-white 7% NAD

Other

**Other Fibers Fibrous** Mineral Glass Cellulose Wool Synthetic

Matrix 100 % Layer 01 100 % Layer 02

Client Sample ID: 23867.078-0007 10/11/2023 Sample ID: S7 Date Analyzed:

**Client Sample Description:** Analyst: Ryan Talaski-Brown

**Asbestos Mineral Fibers** Layer Percent

Percent: Chrysotile Amosite Crocidolite Asbestos:

Layer 01

Layer 02

coating, white 5% NAD

Layer 02

compressed fibers, gray 95% NAD

**Fibrous Other Fibers** Mineral

35 %

35 %

Glass Wool Other Cellulose Synthetic Matrix 100 % Layer 01

Page 5 of 17

30 %



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Report Number: 232730R01

Report Date: 10/12/2023

P.O. No: n/a

PBS Engineering and Environmental Client:

Labcor

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

**Project Notes:** 

Client Sample ID: 23867.078-0008 Sample ID: S8 Date Analyzed: 10/11/2023 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous loose mastic, white/tan 100% NAD

**Other Fibers Fibrous** Mineral Glass Cellulose Wool

Synthetic Matrix 100 %

Client Sample ID: 23867.078-0009 10/11/2023 Sample ID: S9 Date Analyzed: Analyst: Ryan Talaski-Brown

**Client Sample Description:** 

**Asbestos Mineral Fibers** Layer Percent

Percent: Chrysotile Amosite Crocidolite Asbestos:

Homogeneous

loose flaky material, gray 100% NAD

**Other Fibers Fibrous** Mineral

Other Glass Cellulose Wool Synthetic Matrix

10 % 90 %

Other

Other

Client Sample ID: 23867.078-0010 Sample ID: S10 Date Analyzed: 10/11/2023 **Client Sample Description:** Analyst: Ryan Talaski-Brown

**Asbestos Mineral Fibers** Percent Layer

Percent: Chrysotile Amosite Crocidolite Asbestos:

Layer 01

fine compact powder, off-15% NAD

white

Layer 02 85%

compact chalky material

with paper, white

**Other Fibers Fibrous** Mineral Glass Cellulose Wool Synthetic

Layer 01 100 % 100 % Layer 02



NAD

Matrix



**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

Client Sample ID:	23867.07	8-0011		Sample ID:	S11		Date Analyzed:	10/11/2023
Client Sample Desc							Analyst:	Ryan Talaski-Brown
Asbestos Mineral F		Layer					•	Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
mastic, tan		8 %	-	-	-			NAD
Layer 02								
hard vinyl, gray/black/white		84 %	-	-	-			NAD
Layer 03								
mastic, tan		8 %	-	-	-			NAD
Other Fibers	Fibrou	s	Mineral					
	Glass	Cellulos	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Layer 03	-	-	-	-		-	-	100 %
Client Sample ID:	23867.07	8-0012		Sample ID:	S12		Date Analyzed:	10/11/2023
Client Sample Desc	ription:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral F	ibers	Layer						Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
rubbery material,	gray	35 %	-	-	-			NAD
Layer 02								
mastic, tan		65 %	-	-	-			NAD
Other Fibers	Fibrou	s	Mineral					
	Glass	Cellulos	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Client Sample ID:	23867.07	8-0013		Sample ID:	S13		Date Analyzed:	10/11/2023
Client Sample Desc	ription:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral F		Layer					•	Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Homogeneous								
hard vinyl, off-wh	iite	100%	-	-	-			NAD
Other Fibers	Fibrou	_	Mineral					
	Glass -	Cellulos -	se Wool -	Synthetic -		Other -	-	Matrix 100 %





**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

**Project Notes:** 

Olient Comple ID: 00	0007 070 0044	•	Cample ID:	C11		Data Analysis di	40/44/0000
	867.078-0014	•	Sample ID:	514		Date Analyzed:	10/11/2023
Client Sample Descrip						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe	<u>e<b>rs</b></u> Laye Perce		Amosite	Crocidolite			Percent Asbestos:
Layer 01		,	,	0.00.400			7.0200.00.
fine compact powde white	er, off- 15 %	% -	-	-			NAD
Layer 02							
compact chalky mat with paper, white	terial 85 9	-	-	-			NAD
Other Fibers	Fibrous	Mineral					
	Glass Cell	lulose Wool	Synthetic		Other		Matrix
Layer 01	-		-		-	-	100 %
Layer 02	-		-		-	-	100 %
Client Sample ID: 23	867.078-0015	<del></del> 5	Sample ID:	S15		Date Analyzed:	10/11/2023
Client Sample Descrip	tion:		•			Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		r				-	Percent
	Perce	nt: Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01							
flexible vinyl, speckle pattern, off-white/gra		% -	-	-			NAD
Layer 02							
mastic, clear	8 9	% -	-	-			NAD
Other Fibers	Fibrous	Mineral					
	Glass Cell	lulose Wool	Synthetic		Other		Matrix
Layer 01	-		-		-	-	100 %
Layer 02	-		-		-	-	100 %
Client Sample ID: 23	867.078-0016	 }	Sample ID:	S16		Date Analyzed:	10/11/2023
Client Sample Descrip	tion:		•			Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe			Amosite	Crocidolite		•	Percent Asbestos:
Homogeneous							
mastic, tan	100 9	% -	-	-			NAD
Other Fibers	C:b	Minanal					
Other Fibers	Fibrous	Mineral					



100 %



**Built Environment Testing Labcor** 

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Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**Client:** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

**Project Number:** 23867.078 Phase 0001

**Project Notes:** 

Client Sample ID: 23867.078-0017 Sample ID: S17 Date Analyzed: 10/11/2023 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Amosite Crocidolite Asbestos: Homogeneous mastic, black/tan 100% 4 % 4 % **Other Fibers Fibrous** Mineral Other Glass Cellulose Wool Synthetic Matrix 96 % Client Sample ID: 23867.078-0018 Sample ID: S18 Date Analyzed: 10/11/2023 **Client Sample Description:** Ryan Talaski-Brown Analyst: **Asbestos Mineral Fibers** Percent Layer Percent: Chrysotile Amosite Crocidolite Asbestos: Layer 01 rubbery material, gray 90% NAD

Layer 02								
mastic, white		10 %	-	-	-			N.
Other Fibers	Fibrous Glass	Cellulos	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Client Sample ID:	23867.078	-0019		Sample ID:	S19		Date Analyzed:	10/11/2023
Client Sample Desc	cription:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral F		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percen Asbesto
Layer 01								
compact woven		35 %	_	_	_			NA

material, tan/gray								
Layer 02								
mastic, black/tan		65 %	2 %	-	-			
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	10 %		-	-	90 %
Layer 02	-	-	-	-		-	-	98 %

2 %



**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

Client Sample ID: 23	8867.078	-0020		Sample ID:	S20		Date Analyzed:	10/11/2023
Client Sample Descrip	tion:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer						Percent
	F	Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
hard compact powd	er,	95 %	-	-	-			NAD
gray								
Layer 02		E 0/	T					- 4.0/
mastic, tan/black	<b>-</b> :	5%	Trace	-	-			< 1 %
Other Fibers	Fibrous Glass	Cellulos	Mineral se Wool	Synthetic		Other		N. d. madarian
Layer 01	-	Cellulos	-	- Oynthetic		-	_	Matrix 100 %
Layer 02	_	_	_	_		_	_	100 %
	8867.078	-0021		Sample ID:	S21		Date Analyzed:	10/11/2023
Client Sample Descrip							Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01		5.00111.	2111,5001110	Amosite	Crocidonie			Asbestos.
mastic, tan		20%	_	_	_			NAD
Layer 02		20 /0	•	_	-			ואח
hard vinyl, off-white		70%	2 %	_	_			2 %
Layer 03		70 70	2 70					- %
mastic, black		10%	2 %	-	_			2 %
Other Fibers	Fibrous	i	Mineral					
	Glass	Cellulos	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	98 %
Layer 03	-	-	-	-		-	-	98 %
Client Sample ID: 23	8867.078	-0022		Sample ID:	S22		Date Analyzed:	10/11/2023
Client Sample Descrip		77-2					Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer						Percent
			Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
mastic, tan		6 %	-	-	-			NAD
Layer 02								
hard vinyl, off-white		84 %	2 %	-	-			2 %
Layer 03								
mastic, black		10 %	3 %	-	-			3 %
Other Fibers	Fibrous Glass	Cellulos	Mineral se Wool	Synthetic		Other		Matrix
Layer 01	-	-	_	-		_	_	100 %
Layer 02	_	-	-	-		_	- -	98 %
Layer 03	_	_	_	_		_	_	97 %
_3,0. 00								<b>31</b> 70





Built Environment Testing
Labcor

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Asbestos:

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**Client:** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

**Project Notes:** 

Amosite

Percent: Chrysotile

Client Sample Description: Analyst: Ryan Talaski-Brown

<u>Asbestos Mineral Fibers</u> Layer Percent

Homogeneous

mastic, tan with fine 100% - - - NAD

Crocidolite

powder, gray

 Other Fibers
 Fibrous
 Mineral

 Glass Cellulose
 Wool
 Synthetic
 Other

Glass Cellulose Wool Synthetic Other Matrix

Client Sample ID: 23867.078-0024 Sample ID: S24 Date Analyzed: 10/11/2023 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Layer Percent Percent: Chrysotile Crocidolite Asbestos: Amosite Layer 01 hard vinyl, off-white 98% NAD

Layer 02
thin mastic, tan 2% - - - NAD

 Other Fibers
 Fibrous
 Mineral

 Glass
 Cellulose
 Wool
 Synthetic
 Other
 Matrix

 Layer 01
 100 %

Layer 02 - - - - - 100 %



**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

Client Sample ID: 2	23867.078	-0025		Sample ID:	S25		Date Analyzed:	10/11/2023	
Client Sample Descri	ption:						Analyst:	Ryan Talaski-Brown	
Asbestos Mineral Fib		Layer Percent: (	Chrysotile	Amosite	Crocidolite			Pero Asbe	
Layer 01									
paint, white with fir compact powder, c white		12%	-	-	-				NAD
Layer 02									
fine compact powd white with paper backing, white	ler, off-	12%	-	-	-				NAD
Layer 03									
compact chalky ma with paper, white	aterial	60 %	-	-	-				NAD
Layer 04									
hard compact pow white	der,	16 %	-	-	-				NAD
Other Fibers	Fibrous	;	Mineral						
	Glass	Cellulose	e Wool	Synthetic		Other		Matrix	
Layer 01	-	-	-	-		-	-	100 %	
Layer 02	-	-	-	-		-	-	100 %	
Layer 03	-	-	-	-		-	-	100 %	
Layer 04	-	-	-	-		-	-	100 %	
Client Sample ID: 2	23867.078	-0026		Sample ID:	S26		Date Analyzed:	10/11/2023	
Client Sample Descri	ption:						Analyst:	Ryan Talaski-Brown	
Asbestos Mineral Fil							, j • •.	,	
ASSESTED WITHCHAIT IN		Layer					7 <b>, 5</b> .	Perc	
		Layer Percent: (	Chrysotile	Amosite	Crocidolite		, <b>, .</b>	•	
Layer 01		Percent: (	Chrysotile	Amosite	Crocidolite		, <b>, c.</b> .	Perc	
			Chrysotile -	Amosite -	Crocidolite		, <b>, .</b>	Perc	
Layer 01		Percent: (	Chrysotile -	Amosite -	Crocidolite		, <b>, .</b>	Perc	stos:
Layer 01 coating, white	I	Percent: (	Chrysotile - -	Amosite	Crocidolite		, <b>, .</b>	Perc	stos:
Layer 01 coating, white Layer 02	, gray Fibrous	92 %	- - Mineral	-	Crocidolite		, <b>, .</b>	Perc	stos:
Layer 01 coating, white Layer 02 compressed fibers	, gray	8 % 92 %	- - Mineral	Amosite Synthetic	Crocidolite	Other	, <b>, .</b>	Perc	stos:
Layer 01 coating, white Layer 02 compressed fibers Other Fibers Layer 01	, gray Fibrous Glass -	8 % 92 % Cellulose	- - Mineral	-	Crocidolite	Other -		Perc Asbe Matrix 100 %	stos:
Layer 01 coating, white Layer 02 compressed fibers Other Fibers	, gray Fibrous Glass	92 %	- - Mineral e Wool	-	Crocidolite - -	Other - -	·	Perc Asbe Matrix	stos:
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02	, gray Fibrous Glass -	Percent: 6 8 % 92 % Cellulose - 30 %	- Mineral e Wool -	- - Synthetic -	-	-	·	Perc Asbe Matrix 100 %	stos:
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02  Client Sample ID: 2	, gray Fibrous Glass - 30 %	Percent: 6 8 % 92 % Cellulose - 30 %	- Mineral e Wool -	- Synthetic - -	-	-	- -	Perc Asber Matrix 100 % 40 %	stos:
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02	, gray Fibrous Glass - 30 % 23867.078 ption:	92 % Cellulose 30 % 3-0027	- Mineral e Wool - -	Synthetic Sample ID:	- - S27	-	- - - Date Analyzed:	Matrix 100 % 40 %  10/11/2023  Ryan Talaski-Brown	NAD NAD
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descri	, gray Fibrous Glass - 30 % 23867.078 ption:	92 % Cellulose 30 %	- Mineral e Wool - -	- Synthetic - -	-	-	- - - Date Analyzed:	Matrix 100 % 40 %  10/11/2023 Ryan Talaski-Brown	NAD NAD
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descrite Asbestos Mineral Fibers	, gray Fibrous Glass - 30 % 23867.078 ption:	Percent: 6  8 %  92 %  Cellulose  30 %  3-0027  Layer Percent: 6	- Mineral e Wool - -	Synthetic Sample ID:	- - S27	-	- - - Date Analyzed:	Matrix 100 % 40 %  10/11/2023  Ryan Talaski-Brown	NAD NAD eent stos:
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descrite Asbestos Mineral Fibers  Homogeneous loose mastic, black	, gray Fibrous Glass - 30 % 23867.078 ption:	Percent: 6  8 %  92 %  Cellulose 30 %  3-0027  Layer Percent: 6	- Mineral e Wool - - Chrysotile	Synthetic Sample ID:	- - S27	-	- - - Date Analyzed:	Matrix 100 % 40 %  10/11/2023  Ryan Talaski-Brown	NAD NAD
Layer 01 coating, white Layer 02 compressed fibers Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descrition Asbestos Mineral Fibers	, gray Fibrous Glass - 30 % 23867.078 ption:	Percent: 6  8 %  92 %  Cellulose 30 %  3-0027  Layer Percent: 6	- Mineral - Chrysotile	Synthetic Sample ID:	- - S27	-	- - - Date Analyzed:	Matrix 100 % 40 %  10/11/2023  Ryan Talaski-Brown	NAD NAD eent stos:





**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

	23867.07	8-0028		Sample ID:	S28		Date Analyzed:	10/11/2023	
Client Sample Descr	iption:						Analyst:	Ryan Talaski-Brown	
Asbestos Mineral Fil		Layer	Chmaatila	A ! t .	0			Perce	
1 04		Percent:	Chrysotile	Amosite	Crocidolite			Asbest	os:
Layer 01	ee	F 0/						<b>.</b>	140
fine compact powe white	der, oπ-	5 %	-	-	-			N	NAD
Layer 02									
compact chalky m with paper, white	aterial	95 %	-	-	-			N	NAD
Other Fibers	Fibrous		Mineral						
	Glass	Cellulo	se Wool	Synthetic		Other		Matrix	
Layer 01	-	-	-	-		-	-	100 %	
Layer 02	-	-	-	-		-	-	100 %	
Client Sample ID:	23867.07	8-0029		Sample ID:	S29		Date Analyzed:	10/11/2023	
Client Sample Descr	iption:						Analyst:	Ryan Talaski-Brown	
Asbestos Mineral Fil		Layer						Perce	nt
		Percent:	Chrysotile	Amosite	Crocidolite			Asbest	os:
Layer 01									
hard vinyl, gray/wh	nite	95 %	-	-	-			N	NAD
hard vinyl, gray/wh Layer 02	nite	95 %	-	-	-			N	NAD
, , ,	nite	95 % 5 %	-	-	-				NAD NAD
Layer 02	Fibrous	5 %	- Mineral	-	-				
Layer 02 mastic, tan		5 %		- Synthetic	-	Other		<b>N</b> Matrix	
Layer 02 mastic, tan Other Fibers Layer 01	Fibrous	5 %		- Synthetic -	-	Other -	-	<b>N</b> Matrix 100 %	
Layer 02 mastic, tan Other Fibers	Fibrous	5 %	se Wool	- Synthetic - -	-	Other - -	- -	<b>N</b> Matrix	
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02	Fibrous	5 % s Cellulo - -	se Wool	Synthetic Sample ID:	- - S30	Other - -	- - Date Analyzed:	<b>N</b> Matrix 100 %	
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02	Fibrous Glass - - 23867.078	5 % s Cellulo - -	se Wool	- -	- - S30	Other - -	- - Date Analyzed: Analyst:	Matrix 100 % 100 %	
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID:	Fibrous Glass - - 23867.078 iption: bers	5 % S Cellulo B-0030 Layer	se Wool - -	Sample ID:		Other - -		Matrix 100 % 100 %	NAD
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: 22  Client Sample Description	Fibrous Glass - - 23867.078 iption: bers	5 % S Cellulo B-0030 Layer	se Wool	- -	S30 Crocidolite	Other - -		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown	NAD nt
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: Client Sample Description Asbestos Mineral File  Layer 01	Fibrous Glass - - 23867.078 iption: bers	5 % Cellulo 8-0030 Layer Percent:	se Wool - -	Sample ID:		Other - -		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown Percei Asbeste	nt os:
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: 22 Client Sample Descr	Fibrous Glass - - 23867.078 iption: bers	5 % S Cellulo B-0030 Layer	se Wool - -	Sample ID:		Other - -		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown Percei Asbeste	NAD nt
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descr Asbestos Mineral Fill Layer 01 coating, white Layer 02	Fibrous Glass - - 23867.078 iption: bers	5 %  Cellulo  B-0030  Layer Percent:	se Wool - -	Sample ID:		Other - -		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown Percei Asbeste	nt os:
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: Client Sample Descr Asbestos Mineral Fil Layer 01 coating, white	Fibrous Glass - - 23867.078 iption: bers	5 % Cellulo 8-0030 Layer Percent:	se Wool - -	Sample ID:		Other - -		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown Percei Asbesto	nt os:
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descr Asbestos Mineral Fill Layer 01 coating, white Layer 02	Fibrous Glass 23867.076 iption: bers s, gray Fibrous	5 %  Cellulo  B-0030  Layer Percent: 2 % 98 %	se Wool Chrysotile Mineral	Sample ID:  Amosite  -		-		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown Percei Asbesto	nt os:
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descr Asbestos Mineral Fill Layer 01 coating, white Layer 02 compressed fibers	Fibrous Glass - - 23867.076 iption: bers	5 % S Cellulo B-0030 Layer Percent: 2 % 98 %	se Wool Chrysotile Mineral	Sample ID:		Other Other		Matrix 100 % 100 %  10/11/2023 Ryan Talaski-Brown Percer Asbeste	nt os:
Layer 02 mastic, tan Other Fibers  Layer 01 Layer 02  Client Sample ID: 2 Client Sample Descr Asbestos Mineral Fill Layer 01 coating, white Layer 02 compressed fibers	Fibrous Glass 23867.076 iption: bers s, gray Fibrous	5 %  Cellulo  B-0030  Layer Percent: 2 % 98 %	se Wool Chrysotile Mineral	Sample ID:  Amosite  -		-		Matrix 100 % 100 % 10/11/2023 Ryan Talaski-Brown Percer Asbeste	nt os:





**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01 Report Date: 10/12/2023

**P.O. No:** n/a

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

				<u> </u>				404404000
	3867.078	8-0031		Sample ID:	S31		Date Analyzed:	10/12/2023
Client Sample Descrip		1					Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01		i Groom.	Omyoomo	Amosito	Orocidonic			Asbestos.
fine compact powde	er off-	12 %	_	_	_			NAD
white	, OII-	12 /0	-	-	_			NAD
Layer 02								
compact chalky ma with paper, white	terial	88%	-	-	-			NAD
Other Fibers	Fibrous	S	Mineral					
	Glass	Cellulo	se Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Client Sample ID: 23	3867.078	8-0032		Sample ID:	S32		Date Analyzed:	10/12/2023
Client Sample Descrip							Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer					. ,	Percent
		Percent:	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
flexible vinyl, white/g	gray	80 %	-	-	-			NAD
Layer 02								
mastic, orange		10 %	-	-	-			NAD
Layer 03								
fine compact powde	er,	10 %	-	-	-			NAD
gray								
Other Fibers	Fibrous		Mineral			O41		
	Glass	Cellulo		Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Layer 03	-	-	-	-		-	-	100 %
Client Sample ID: 23	3867.078	8-0033		Sample ID:	S33		Date Analyzed:	10/12/2023
Client Sample Descrip	tion:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous								
rubbery material, wh	nite	100 %	-	-	-			NAD
Other Fibers	Fibrous	S	Mineral					
	Glass	Cellulo	se Wool	Synthetic		Other		Matrix
	-	-	-	-		-	-	100 %





**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

Client Sample ID:	23867.078	8-0034		Sample ID:	S34		Date Analyzed:	10/12/2023
Client Sample Des	cription:			•			Analyst:	Ryan Talaski-Brown
Asbestos Mineral I	Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		-	Percent Asbestos:
Layer 01								
coating, white		5 %	-	-	-			NAD
Layer 02								
compressed fibe	ers, gray	95 %	-	-	-			NAD
Other Fibers	Fibrous Glass	_	Mineral e Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	35 %	35 %	-	-		-	-	30 %
Client Sample ID:	23867.07	8-0035		Sample ID:	S35		Date Analyzed:	10/12/2023
Client Sample Des	cription:						Analyst:	Ryan Talaski-Brown
Asbestos Mineral I		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01								
mastic, tan		20 %	-	-	-			NAD
Layer 02								
hard compact po gray	owder,	35 %	-	-	-			NAD
Layer 03								
hard compact po white	owder,	35 %	-	-	-			NAD
Layer 04								
mastic, black		10 %	4 %	-	-			4 %
Other Fibers	Fibrous Glass		Mineral e Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Layer 03	-	-	-	-		-	-	100 %
Layer 04	-	-	-	-		-	-	96 %





**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

	867.078	-0036		Sample ID:	S36		Date Analyzed:	10/12/2023
Client Sample Descrip		L					Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer Percent: (	Chrvsotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01	·		,	7 111100110	Orocidonio			75505103.
flexible vinyl, brown/	black	45%	_	_	_			NAD
Layer 02	DIGGR	10 70						NAS
fibrous backing, gray	v	45%	35 %	_	_			35 %
Layer 03	,	10 70	00 70					33 70
mastic, black		10 %	2 %	_	_			2 %
Other Fibers	Fibrous		Mineral					2 70
Other Fibers	Glass	Cellulose		Synthetic		Other		Matrix
Layer 01	_	-	_	-		_	_	100 %
Layer 02	-	35 %	-	_		_	_	30 %
Layer 03	-	-	-	_		_	_	98 %
	067.070	0027		Commis ID:	C27		Data Analysis	10/12/2023
	867.078	-0037		Sample ID:	537		Date Analyzed:	
Client Sample Descrip		Lavor					Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer Percent: (	Chrvsotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01			- ,	,	0.00.000			, , , , , , , , , , , , , , , , , , , ,
woven material with		70 %	_	_	_			NAD
coating, white/orang								
Layer 02								
mastic, black		15 %	3 %	-	-			3 %
Layer 03								
granular compact powder, gray		15%	-	-	-			NAD
Other Fibers	Fibrous		Mineral					
	Glass	Cellulose	Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	75 %		-	-	25 %
Layer 02	-	-	-	-		-	-	97 %
Layer 03	-	-	-	-		-	-	100 %
Client Sample ID: 23	867.078	-0038		Sample ID:	S38		Date Analyzed:	10/12/2023
Client Sample Descrip				•			Analyst:	Ryan Talaski-Brown
Asbestos Mineral Fibe		Layer					•	Percent
		Percent: (	Chrysotile	Amosite	Crocidolite			Asbestos:
Layer 01								
flexible vinyl, off-whi	te	50 %	-	-	-			NAD
Layer 02								
fibrous backing, brow	wn	50 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	_	-		-	-	100 %
Layer 02	10 %	20 %	-	-		-	-	70 %





4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055

www.labcorpdx.com

Report Number: 232730R01

P.O. No: n/a

Report Date: 10/12/2023

PBS Engineering and Environmental Client:

Labcor

**Built Environment Testing** 

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232730

**Project Name:** 

Project Number: 23867.078 Phase 0001

**Project Notes:** 

Client Sample ID: 23867.078-0039 Sample ID: S39 Date Analyzed: 10/12/2023 **Client Sample Description:** Analyst: Ryan Talaski-Brown **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Crocidolite Amosite Asbestos: Layer 01 rubbery material, gray 25% NAD Layer 02 25% NAD mastic, white Layer 03 25% NAD mastic, tan Layer 04 fine compact powder, off-25% NAD **Fibrous Other Fibers** Mineral Other Glass Wool Cellulose Synthetic Matrix 100 % Layer 01 100 % Layer 02 Layer 03 100 % Layer 04 100 %

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:

Ryan Talaski-Brown

**Eurofins - LabCor Portland** 



4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

## **PLM - Visual Estimate Extended Final Report**

Job Number: 232869

**Client: PBS Engineering and Environmental** 

Address: 4412 S Corbett Avenue Portland, OR 97239

**Project Name:** 

Project No.: 23867.078 Phase 0001

PO Number: Sub Project: Reference No.: Report Number: 232869R01 Report Date: 10/25/2023

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:
232869 - S1	23867.078-0040 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S2	23867.078-0041 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S3	23867.078-0042 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S4	23867.078-0043 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S5	23867.078-0044 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S6	23867.078-0045 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S7	23867.078-0046 -	PLM - Visual Estimate Extended		10/23/2023
232869 - S8	23867.078-0047 -	PLM - Visual Estimate Extended		10/23/2023





4321 South Corbett Ave., Ste A Portland, OR 97239

Phone: (503) 224-5055 www.labcorpdx.com

#### **PLM - Visual Estimate Extended Final Report**

Job Number: 232869 Report Number: 232869R01 Client: PBS Engineering and Environmental Report Date: 10/25/2023

**Project Name:** 

PLM - Visual The submitted sample(s) were analyzed according to the EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Estimate Extended 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 HCI, 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,

Tim Cammann

**Eurofins - LabCor Portland** 





4321 South Corbett Ave., Ste A Portland, OR 97239

Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232869R01

P.O. No: n/a

Report Date: 10/25/2023

#### **BULK SAMPLE ASBESTOS ANALYSIS**

Client: PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232869

**Project Name:** 

Project Number: 23867.078 Phase 0001

Project Notes:							
Client Sample ID: 23867.078-00	40	Sample ID:	S1		Date Analyzed:	10/24/2023	
Client Sample Description:					Analyst:	Kyle DeBow	
	yer						Percent
	cent: Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01							
loose particulate, black 7	0% 2%	-	-				2 %
Layer 02							
loose particulate, yellow 3	0% Trace	-	-				< 1 %
Other Fibers Fibrous	Mineral						
	ellulose Wool	Synthetic		Other			Matrix
	Trace -	-		-	-		98 %
Layer 02 -	Trace -	-		-	-		100 %
Client Sample ID: 23867.078-00	41	Sample ID:	S2		Date Analyzed:	10/24/2023	
Client Sample Description:		•			Analyst:	Kyle DeBow	
•	yer				•	•	Percent
Per	cent: Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01							
compact powder, white 5	0% -	-	-				NAD
Layer 02							
mastic, tan 5	0% -	-	-				NAD
Other Fibers Fibrous	Mineral						
Glass C	ellulose Wool	Synthetic		Other			Matrix
Layer 01 -	Trace -	-		-	-		100 %
Layer 02 -	Trace -	Trace		-	-		100 %
Client Sample ID: 23867.078-00	42	Sample ID:	S3		Date Analyzed:	10/24/2023	
Client Sample Description:					Analyst:	Kyle DeBow	
	yer					,	Percent
	cent: Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01							
loose particulate, black 7	0% 2%	-	-				2 %
Layer 02							
	0% -	-	-				NAD
Other Fibers Fibrous	Mineral						
	ellulose Wool	Synthetic		Other			Matrix
Layer 01 -		Trace		-	-		98 %
Layer 02 -		Trace		-	-		100 %





**Built Environment Testing Labcor** 

4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232869R01

P.O. No: n/a

Report Date: 10/25/2023

**<u>Client:</u>** PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232869

Project Name:

Project Number: 23867.078 Phase 0001

**Project Notes:** 

Client Sample ID:	23867.07	8-0043		Sample ID:	S4		Date Analyzed:	10/24/2023	
Client Sample Desc	cription:						Analyst:	Kyle DeBow	
Asbestos Mineral I	<u>Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01									
rubbery material	, gray	70%	-	-	-				NAD
Layer 02									
mastic, tan		20%	-	-	-				NAD
Layer 03									
powdery materia	ıl, white	10%	-	-	-				NAD
Other Fibers	Fibrou Glass		Mineral se Wool	Synthetic		Other			Matrix
Layer 01	-	-	-	-		-	-		100 %
Layer 02	-	-	-	-		-	-		100 %
Layer 03	-	-	-	-		-	-		100 %
Client Sample ID:	23867.07	8-0044		Sample ID:	S5		Date Analyzed:	10/24/2023	_
Client Sample Desc	cription:						Analyst:	Kyle DeBow	
Asbestos Mineral I	<u>Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Homogeneous									
compressed fibe	ers, gray	100%	-	-	-				NAD
Other Fibers	Fibrou Glass -			Synthetic -		Other -	-		Matrix 76 %





**Built Environment Testing Labcor** 

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Report Number: 232869R01

P.O. No: n/a

Report Date: 10/25/2023

<u>Client:</u> PBS Engineering and Environmental

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232869

**Project Name:** 

Project Number: 23867.078 Phase 0001

**Project Notes:** 

	23867.07	8-0045		Sample ID:	S6		Date Analyzed:	10/24/2023	
Client Sample Desci Asbestos Mineral Fi	-	Layer					Analyst:	Kyle DeBow	Percent
7 to 200 to 0 millional 1 i			Chrysotile	Amosite	Crocidolite				Asbestos:
Layer 01									
vinyl, orange		60%	-	-	-				NAD
Layer 02									
woven fibers, whit	te	10%	-	-	-				NAD
Layer 03									
rubbery material, white	off-	10%	-	-	-				NAD
Layer 04									
loose particulate,	gray	10%	-	-	-				NAD
Layer 05									
loose particulate,	white	10%	-	-	-				NAD
Other Fibers	Fibrou Glass		Mineral e Wool	Synthetic		Other			Matrix
Layer 01	-	Trace	-	-		-	-		100 %
Layer 02	-	-	-	90 %		-	-		10 %
Layer 03	-	-	-	-		-	-		100 %
Layer 04	-	Trace	-	-		-	-		100 %
Layer 05	-	Trace	-	-		-	-		100 %
Client Sample ID:	23867.07	8-0046		Sample ID:	S7		Date Analyzed:	10/24/2023	
Client Sample Descr	ription:						Analyst:	Kyle DeBow	
Asbestos Mineral Fi	ibers	Layer Percent: (	Chrysotile	Amosite	Crocidolite				Percent Asbestos:
Layer 01									
rubbery material,	black	90%	-	-	-				NAD
Layer 02									
mastic, white		10%	-	-	-				NAD
Other Fibers	Fibrou Glass		Mineral e Wool	Synthetic		Other			Matrix
Layer 01	-	Trace	-	-		-	-		100 %
Layer 02	-	-	-	-		-	-		100 %





4321 South Corbett Ave., Ste A Portland, OR 97239 Phone: (503) 224-5055 www.labcorpdx.com

Report Number: 232869R01

P.O. No: n/a

10/24/2023

Date Analyzed:

Report Date: 10/25/2023

PBS Engineering and Environmental Client:

Labcor

23867.078-0047

4412 S Corbett Avenue Portland, OR 97239

Job Number: 232869

**Built Environment Testing** 

**Project Name:** 

Project Number: 23867.078 Phase 0001

**Project Notes:** 

Client Sample ID:

**Client Sample Description:** Analyst: Kyle DeBow **Asbestos Mineral Fibers** Laver Percent Percent: Chrysotile Crocidolite Amosite Asbestos: Layer 01 paint, off-white with fine 30% NAD compact powder, offwhite

Sample ID: S8

Layer 02

compact chalky material 70% NAD

with paper, white

Other Fibers **Fibrous** Mineral Other Glass Wool Cellulose Synthetic Matrix 100 % Layer 01 Trace Layer 02 Trace 100 %

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:

Tim Cammann

**Eurofins - LabCor Portland** 

Reviewed by	/: <u></u> _	
Results Rele	ased on:	
Invoice Rele		
Verbal	Email	Physical



Project No.: 23867.078	Phase 0001		
Individuals signing this form wa original. The Receiver should co immediately to Sender.	rrant that the information provided is mplete the form, keep a copy and retu	correct and complete. The Sender shourn the original to the Sender. Receive	ould keep a copy and send the r shall report damage of package
SENDER		RECEIVER	
Date Sent: October 09	, 2023	Date Received: $10/\varsigma/2$	23
PBS Engineering and Envir 4412 S Corbett Avenue Portland, OR 97239	ronmental Inc.	Company: Eurofins LabC Address: 4321 S Corber Portland, OR	tt Avenue
503,248.1939, Fax:,866.72	7.0140	(503) 224-505	
Name.	1——	Name 2	AUG
Name,	10/9/23 11:40	m de	10/9/23 11 45
Aythorized Signature	Date Time	Authorized Signature	Date Time
Sender's ID No.	<b>Brief Description</b>	Receiver's ID N	lo.
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23867.078-0003			<del></del>
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23867.078-0031		
23867.078-0032		
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23867.078-0035		
23867.078-0036		
23867.078-0037	-	
23867.078-0038	 -	
23867.078-0039	-	



Please analyze the enclosed 39 notification if samples will be di	•	os content using PLM with	dispersion staining. F	PBS requests prior
Request verbal results by:	AM/PM	Date.		
Please fax and mail the results t	o the above address	<b>).</b>		
TURNAROUND DESIRED:	72 Hour			
SPECIAL INSTRUCTIONS:				2414
				2-11-1

Reviewed by	/:	
Results Rele	ased on:	·
Invoice Rele	ased on:	^
Verbal	Email	Physical -



<b>Project No.:</b> 23867.078	Phase 0001				
	rrant that the information provided is mplete the form, keep a copy and retur				
SENDER		RECEIVER	1. 1	<b>A</b>	•
Date Sent: October 20,	, 2023	Date Received:	10/23/.	<u>2)                                    </u>	_
PBS Engineering and Envir 4412 S Corbett Avenue Portland, OR 97239 503.248.1939, Fax: 866.723 Selice and Authorized Name Authorized Signature	7.0140	Address: 432 Por	ofins LabCor P 1 S Corbett Av tland, OR 972 3) 224-5055 Down H	enue 39	//://D
Sender's ID No.	<b>Brief Description</b>	Recei	ver's ID No.		
23867.078-0040					
23867.078-0041	-				
23867.078-0042					
23867.078-0043					
23867.078-0044					
23867.078-0045			<u>.</u>		
23867.078-0046					
23867.078-0047					
Please analyze the enclosed notification if samples will b Request verbal results by:Please fax and mail the result TURNAROUND DESIRED:	AM/PMDate.		ersion staining	. PBS requ	ests prior
SPECIAL INSTRUCTIONS:					



#### LABORATORY REPORT

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

Attn: Brian Wehner Phone: 503-248-1939

Email: brian.wehner@pbsusa.com

RJ Lee Group Job No.: PA091020230003 Samples Received: October 9, 2023 Report Date: October 11, 2023 Client Project: 23867.078 Phase 0001

Purchase Order No.: N/A Matrix: Solid

Prep/Analysis: EPA 3050B / EPA 6010C-Paint

		_	Sample C	Sample Concentration		eporting Limit			
Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg	Analysis Date	Q
LB23867.078-1001	PA091020230003-001	NP	Lead	< 0.00121	< 12.1	0.00121	12.1	10/10/2023	Α
LB23867.078-1002	PA091020230003-002	NP	Lead	< 0.00127	< 12.7	0.00127	12.7	10/10/2023	A
LB23867.078-1003	PA091020230003-003	NP	Lead	< 0.00120	< 12.0	0.00120	12.0	10/10/2023	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)

Page 1 of 1

- : 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 accredidations

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 R] 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, RI 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.

Philip Grindle

Philip Grindle Laboratory Supervisor



PA091020230003

# TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.:	23867.078	Phase 0001			
Individuals signing original. The Rece package immediat	g this form warrant t iver should complete ely to Sender.	hat the information provided in the form, keep a copy and ret	is correct and comple turn the original to t	ete. The Sender should kee he Sender. Receiver shall n	p a copy and send the eport damage of
PBS Engineerin 4412 S Corbett Portland, OR 97	7239 Fax: 866.727.014 DEHNER M	ental Inc.	Company: Address: Name	R.J. Lee Group 350 Hochberg Road Monroeville, PA 1514 724-325-1776 Right Control 10	109/03 835AM
Sender's ID No.			Authorized	ignature	Date
LB23867.078-100	11	Brief Description	-	Receiver's ID No.	100
	· ·				
LB23867.078-100	10 m				
LB23867.078-100					
□ v □ s □ A	aint Vipe oil/Misc.	Please analyze the ence PBS requests prior not PBS requests prior not Please fax and mail the TURNAROUND D 72 Hour	results to the above		Absorption Method.
SPECIAL INSTRU	ICTIONS: SK.				

Project No.:

## THIS IS TO CERTIFY THAT

# **BRIAN WEHNER**

# HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for ASBESTOS INSPECTOR REFRESHER

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

Course Date: 01/19/2023

/19/2023 PBS

Course Location: Online

Certificate: IRO-23-7306B

CCB #SRA0615 4-Hr Training

4-Hour AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

**Expiration Date:** 01/19/2024

For verification of the authenticity of this certificate contact: PBS Engineering and Environmental Inc.

4412 S Corbett Avenue Portland, OR 97239

Andy Fridley, Instructor

ander Fridly

## THIS IS TO CERTIFY THAT

# **SEIREADAN KINDRICK**

# HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

# for

# **ASBESTOS INSPECTOR INITIAL COURSE**

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

Course Date:

4/10/2023 - 4/12/2023

Course Location:

Portland, OR

Certificate:

503.248.1939

IN-23-1288C

For verification of the authenticity of this certificate contact: PBS Engineering and Environmental Inc.

4412 S Corbett Avenue Portland, OR 97239 , OR PBS

CCB #SRA0614 24-Hr Training

24-Hour AHERA Inspector Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

**Expiration Date:** 

04/12/2024

Andy Fridley, Instructor

andew Fridley