

Pre-Demolition

Hazardous Building Materials

Survey Report

525 Portland Avenue
Gladstone, OR 97027

Prepared for:

North Clackamas Parks and Recreation District

General Information	1.1
Inspection Summary	1.2
Sample Inventories	2.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered



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GENERAL INFORMATION

BUILDING DATA

525 Portland Avenue
Gladstone, OR 97027

CLIENT DATA

North Clackamas Parks and Recreation District
150 Beavercreek Road, Suite 414
Oregon City, OR 97045

SURVEY SCOPE

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

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Inspection summary
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Laboratory analytical data of bulk material sampled

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

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

Rich Dufresne
Project Manager
Accreditation #: IMR-19-0264A

Digital signature by Rich Dufresne
Date: 2019.08.09 08:29:23 -07'00'

Signature Date

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David Toy
Prime Inspector
Accreditation #: IR-18-5627B

Digital signature by H. David Toy
Date: 2019.08.08 15:56:32 -07'00'

Signature Date



INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
6/12/2019	David Toy	Inspect and sample
6/14/2019	David Toy	Inspect and sample

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

ASBESTOS MATERIALS

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

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

<u>Result</u>	<u>Material (type)</u>	<u>Location</u>	<u>Approx. Quantity</u>
(+)	Air Cell Pipe Insulation	Lower level IT hallway, and presumed in pipe runs throughout the building	200 LF
(+)	Hard Fittings/Fiberglass	City Hall and police department pipe runs	150 EA
(+)	Sheet Floor Covering	City Hall first floor court office and custodial closet	250 SF
(+)	Vinyl Floor Tile and Associated Mastic (1)	Various locations throughout	5,920 SF
(+)	Joint Compound	Police department walls (<1%)	NOT QUANTIFIED
(+)	Brown Covebase Mastic (1)	City Hall second and first floors and police department building (<1%)	216 LF

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

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

<u>Material (type)</u>	<u>Location</u>
Vinyl Floor Tile/Mastic; 12" Gray Speckled	Courthouse first floor corridor
Vinyl Floor Tile/Mastic; Beige with Black Mastic	Administrators office
Covebase; Various Colors	Throughout
Ceramic Tile and Grout	Restrooms
Lay-in Ceiling Tile	Second floor council chambers, police department
Glued-on Ceiling Tiles with Brown Mastic	Throughout
Black Sink Undercoating	Police department
Wall and Ceiling Plaster	Throughout
Brick Mortar	Chimney
Caulk/HVAC Duct Sealant, Black and Gray	Rooftop HVAC systems
Built-up Roofing	Roof

INSPECTION SUMMARY

BACKGROUND

On June 12 and 14, 2019, PBS Engineering and Environmental Inc. (PBS) performed a pre-demolition hazardous building materials survey at the Gladstone City Hall and attached police department located at 525 Portland Avenue in Gladstone, Oregon. The survey was requested by the North Clackamas Parks & Recreation District in anticipation of demolition of the building.

The purpose of the survey was to locate, identify, and quantify regulated hazardous building materials that may be impacted by the proposed demolition of the structures at the site.

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

This survey report is not suitable for, nor is it intended to be used as, an asbestos abatement project design or an abatement bid document.

ASBESTOS SUMMARY

A PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector inspected the facility to determine the presence, location, and approximate quantity of asbestos containing materials (ACM). Fifty-two bulk samples of building materials, suspected of containing asbestos, were collected and submitted under chain of custody to Lab/Cor Portland Inc. of Portland, Oregon. The following materials were found to contain asbestos:

Pipe Insulation

- Asbestos-containing air cell pipe insulation is present throughout the city hall building and police station. The asbestos-containing pipe insulation was observed in limited locations, and destructive investigation was not performed given the building's occupancy. It is presumed that asbestos-containing pipe insulation is present concealed within walls and ceilings throughout the building.
- Asbestos-containing mudded hard fittings on fiberglass-insulated pipes are also present on pipes throughout the buildings. As stated above, asbestos-containing pipe fittings are presumed to exist in concealed locations throughout the buildings.

Floor Coverings

- Asbestos-containing sheet floor covering with a beige mosaic pattern is present in the City Hall first floor court office and custodial closet. There are two layers of flooring at this location.
- Asbestos-containing vinyl floor tile and associated mastic are present throughout the facility. Various colors of asbestos-containing floor tile were observed, and the material is located throughout the majority of the courthouse and police department areas.

Materials Containing <1%

The following materials tested at less than 1 percent (<1%) asbestos:

- Brown covebase mastic associated with the olive-colored covebase tested <1% asbestos in the police department and custodial closet. Brown covebase mastic is also present in the 2nd floor court judges' chambers.

INSPECTION SUMMARY

- The joint compound on gypsum wallboard tested at <1% asbestos in the police department.

Materials containing <1% asbestos do not meet the definition of asbestos-containing materials requiring abatement by a licensed asbestos abatement contractor; however, Oregon OSHA does have certain training and handling requirements for individuals impacting these materials.

Please refer to the asbestos survey drawings for detailed asbestos-containing building material and bulk sample locations.

Asbestos Regulations

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

The EPA, DEQ, and OSHA all define ACM as any material containing more than one percent asbestos. Although materials equal to or less than one percent are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and Oregon OSHA has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any level of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

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

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

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

1. Oregon Occupational Safety and Health Administration, OAR 437-003-1926.1101
2. Department of Environmental Quality, OAR-340, Division 248

INSPECTION SUMMARY

LEAD-BASED PAINT

LEAD PAINT SUMMARY

Paint chip samples were collected from representative building components. These samples represent the major painted building components throughout the buildings. The paint samples were submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA).

The lead sampling revealed that lead-based paint is present on the exterior of the buildings. Interior paint revealed relatively low concentrations of lead. Please refer to the lead sample inventory for specific sample locations and associated lead concentrations.

For reference, the Environmental Protection Agency (EPA) uses 5,000 parts per million (ppm) as the threshold limit for the definition of lead-based paint. However, lead in any concentration may become airborne above the OSHA Action Level during certain trigger activities. Lead-safe work practices should always be employed when impacting paint that contains lead in any concentration.

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

Lead-Containing Paint Regulations

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

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

Disposal

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

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

INSPECTION SUMMARY

MERCURY VAPOR TUBES AND PCB'S SUMMARY

Fluorescent light fixtures that use mercury-containing lamps are present throughout the buildings. The inspector disassembled representative fixtures and found "No PCBs" labeling on the ballasts.

Fluorescent tubes are considered universal waste. Mercury-containing lamps should be collected and recycled by a qualified recycler or disposed of as hazardous waste in accordance with 40 CFR 273 prior to building demolition.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0001	Mastic	Second floor; council chambers, brown ceiling tile mastic	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, brown	No Asbestos Detected	
	Layer 2	fibrous backing, brown	No Asbestos Detected	
24001.000-0002	Wall and Ceiling Plaster	Second floor; council chambers, southeast corner, plaster	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose granular powder, gray	No Asbestos Detected	
24001.000-0003	Mastic	Second floor; council chambers, southeast corner, brown ceiling tile mastic	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	coating, white	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
	Layer 3	fibrous backing, brown	No Asbestos Detected	
24001.000-0004	Lay-in Ceiling Tile	Second floor; council chambers, southeast corner, white lay-in ceiling tile (hole texture pattern)	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	coating, white	No Asbestos Detected	
	Layer 2	compressed fibers, gray	No Asbestos Detected	
24001.000-0005	Wall and Ceiling Plaster	Second floor; council chambers, northeast corner, plaster	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose granular powder, white	No Asbestos Detected	
24001.000-0006	Vinyl Floor Tile/Mastic	Second floor; council chambers, northeast corner, green vinyl floor tile with black mastic	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	hard vinyl, green	6% Chrysotile	
	Layer 3	mastic, black	<1% Chrysotile	
	Layer 4	fine compact powder, off-white	No Asbestos Detected	
24001.000-0007	Vinyl Floor Tile/Mastic	Second floor; council chambers southeast, at door	No Asbestos Detected	Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	hard compact powder, white	No Asbestos Detected	
	Layer 3	hard vinyl, green	6% Chrysotile	
	Layer 4	mastic, black	2% Chrysotile	
	Layer 5	hard compact powder, gray	<1% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0008	Ceramic Tile Grout	Second floor; mens restroom, red-brown grout		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	ceramic particulate, off-white	No Asbestos Detected	
	Layer 2	loose granular powder, tan	No Asbestos Detected	
24001.000-0009	Ceramic Tile/Grout	Second floor; mens restroom, beige ceramic tile		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose ceramic material, off-white	No Asbestos Detected	
	Layer 2	loose granular particulate, tan	No Asbestos Detected	
24001.000-0010	Covebase/Mastic	Second floor; judges chamber, brown mastic, beige mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, beige	No Asbestos Detected	
	Layer 2	mastic, brown	<1% Chrysotile	
	Layer 3	rubbery material, gray	No Asbestos Detected	
	Layer 4	thin coating, white	No Asbestos Detected	
24001.000-0011	Wall and Ceiling Plaster	Second floor; admin. office southwest corner, plaster		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose granular powder, gray	No Asbestos Detected	
24001.000-0012	Vinyl Floor Tile/Mastic	Second floor; admin, southwest wall at door, beige vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	vinyl, green	No Asbestos Detected	
	Layer 3	fibrous backing, black with thin mastic, off-white	No Asbestos Detected	
24001.000-0013	Lay-in Ceiling Tile	First floor; police department, west door, white lay-in ceiling tile, textured hole pattern		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray/tan	No Asbestos Detected	
24001.000-0014	Vinyl Floor Tile/Mastic	First floor; police department, northwest hallway, beige speckled vinyl floor tile with black mastic, 12" by 12"		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, beige	<1% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0015	Vinyl Floor Tile/Mastic	First floor; police department, armory, pink 12" by 12" vinyl floor tile with yellow mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, off-white	No Asbestos Detected	
	Layer 2	mastic, orange with fine compact powder, gray	No Asbestos Detected	
24001.000-0016	Gypsum Wallboard	First floor; police department, kitchen, gypsum wallboard		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	textured paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
24001.000-0017	Sink Undercoating	First floor; police department, kitchen sink, black sink undercoat		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	loose flaky material, black	No Asbestos Detected	
24001.000-0018	Vinyl Floor Tile/Mastic	First floor; police department, mens locker room, beige vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, beige	<1% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	
24001.000-0019	Covebase/Mastic	First floor; police department, kitchen south wall, olive covebase with brown mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, light green	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
	Layer 3	fine compact powder, off-white	<1% Chrysotile	
24001.000-0020	Gypsum Wallboard/Joint Compound	First floor; police department, womens locker room, joint compound and gypsum wallboard		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	paint, white/blue	No Asbestos Detected	
	Layer 2	fine compact powder, off-white with paper backing, white	<1% Chrysotile	
	Layer 3	fine compact powder, off-white with paper backing, brown	<1% Chrysotile	
	Layer 4	compact chalky material with paper, pink	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0021	Vinyl Floor Tile/Mastic	First floor; police department, court closet, brown 9" by 9" vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, brown	5% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	
24001.000-0022	Covebase/Mastic	First floor; custodial closet, olive covebase with brown mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, light green	No Asbestos Detected	
	Layer 2	mastic, brown	<1% Chrysotile	
24001.000-0023	Sheet Floor Covering	First floor; custodial closet, beige mosaic sheet vinyl flooring with yellow mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl, square pattern, brown	No Asbestos Detected	
	Layer 2	fibrous backing, gray	40% Chrysotile	
	Layer 3	powdery backing, gray	No Asbestos Detected	
24001.000-0024	Wall and Ceiling Plaster	First floor; court office closet, plaster		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	granular compact powder, gray	No Asbestos Detected	
24001.000-0025	Vinyl Floor Tile/Mastic	First floor; court office closet, beige vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	woven fibers, white	No Asbestos Detected	
	Layer 2	mastic, tan	No Asbestos Detected	
	Layer 3	vinyl, square pattern, brown	No Asbestos Detected	
	Layer 4	fibrous backing, gray	40% Chrysotile	
	Layer 5	hard vinyl, brown	4% Chrysotile	
	Layer 6	mastic, black	<1% Chrysotile	
	Layer 7	fibrous backing, black	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0026	Sheet Floor Covering	First floor; court office closet, beige mosaic sheet vinyl flooring with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	flexible vinyl, square pattern, brown	No Asbestos Detected	
	Layer 2	fibrous backing, gray	40% Chrysotile	
	Layer 3	mastic, tan	No Asbestos Detected	
	Layer 4	mastic, dark brown	No Asbestos Detected	
	Layer 5	hard vinyl, brown	4% Chrysotile	
	Layer 6	mastic, black	No Asbestos Detected	
24001.000-0027	Air Cell Pipe Insulation	First floor; IT. I.P.D hallway, south side, air cell pipe insulation		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fibrous material, gray	35% Chrysotile	
24001.000-0028	Hard Fittings/Fiberglass	First floor; IT. I.P.D hallway, south side, asbestos pipe insulation		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	soft fibrous powder, tan	8% Chrysotile, 10% Amosite	
24001.000-0029	Hard Fittings/Fiberglass	First floor; IT. I.P.D hallway, water tank room, asbestos pipe insulation		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	woven material with coating, white	No Asbestos Detected	
	Layer 2	loose granular powder, gray	No Asbestos Detected	
24001.000-0030	Hard Fittings/Fiberglass	First floor; IT. I.P.D hallway, water tank room, asbestos pipe insulation		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	woven material with coating, white	No Asbestos Detected	
	Layer 2	granular powder, gray	No Asbestos Detected	
24001.000-0031	Vinyl Floor Tile/Mastic	First floor; payables office vault, red vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, red	4% Chrysotile	
	Layer 2	mastic, black with cementitious material, gray	3% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0032	Vinyl Floor Tile/Mastic	First floor; payables office vault, tan red vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, off-white	2% Chrysotile	
	Layer 2	mastic, black	2% Chrysotile	
24001.000-0033	Vinyl Floor Tile/Mastic	First floor; payables office at door, brown vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	hard vinyl, dark red	4% Chrysotile	
24001.000-0034	Lay-in Ceiling Tile	First floor; hallway at room 104, white lay-in ceiling tile		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
24001.000-0035	Gypsum Wallboard/Joint Compound	First floor; room 104, southwest corner, joint compound and gypsum wallboard		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fine compact powder, off-white with paint, off-white	No Asbestos Detected	
	Layer 2	paper backing, off-white	No Asbestos Detected	
	Layer 3	fine compact powder, off-white	No Asbestos Detected	
	Layer 4	compact chalky material with paper, off-white	No Asbestos Detected	
24001.000-0036	Gypsum Wallboard/Joint Compound	First floor; hallway outside of mens restroom, joint compound and gypsum wallboard		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	fine compact powder, off-white with paint, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
24001.000-0037	Covebase/Mastic	First floor; room 104, southwest corner, crème covebase with brown mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, off-white	No Asbestos Detected	
	Layer 2	mastic, off-white	No Asbestos Detected	
	Layer 3	mastic, brown	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0038	Vinyl Floor Tile/Mastic	First floor; mens restroom, beige vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	hard vinyl, off-white	2% Chrysotile	
	Layer 2	mastic, black	2% Chrysotile	
24001.000-0039	Vinyl Floor Tile/Mastic	First floor; mens restroom, white speckled vinyl with yellow and black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl, light gray	No Asbestos Detected	
	Layer 2	mastic, black/orange	2% Chrysotile	
24001.000-0040	Vinyl Floor Tile/Mastic	First floor; hallway outside of copy room, gray speckled vinyl floor tile		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl, gray	No Asbestos Detected	
24001.000-0041	Vinyl Floor Tile/Mastic	First floor; conference room closet, beige speckled vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	vinyl, off-white	2% Chrysotile	
	Layer 2	mastic, black	4% Chrysotile	
24001.000-0042	Vinyl Floor Tile/Mastic	Second floor; court south wall, gray vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	hard vinyl, black	5% Chrysotile	
	Layer 3	fibrous backing, black	No Asbestos Detected	
24001.000-0043	Vinyl Floor Tile/Mastic	Second floor; council chamber, common closet, brown vinyl floor tile with black mastic		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	mastic, yellow	No Asbestos Detected	
	Layer 2	hard vinyl, red	4% Chrysotile	
	Layer 3	mastic, black	No Asbestos Detected	
	Layer 4	fibrous backing, black	No Asbestos Detected	
	Layer 5	compressed fibers, tan	No Asbestos Detected	
24001.000-0044	Caulk	Upper roof; south side at flag pole, black duct caulk		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, black	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24001.000-0045	Caulk	Upper roof; south side at flag pole, gray duct caulk		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, black	No Asbestos Detected	
24001.000-0046	Caulk	Upper roof; mid-roof chimney flashing, black caulk		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, black	No Asbestos Detected	
24001.000-0047	Caulk	Roof; northwest section HVAC, gray caulk		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, gray	No Asbestos Detected	
24001.000-0048	Ceramic Tile Grout	Upper roof; chimney, grout		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	cementitious material, gray	No Asbestos Detected	
24001.000-0049	Caulk	Roof; new HVAC, black caulk		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, black	No Asbestos Detected	
24001.000-0050	Built-up Roofing	Upper roof; northwest side at HVAC, built-up roofing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
24001.000-0051	Built-up Roofing	Roof; northwest side, built-up roofing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
	Layer 2	fibrous tar, black	No Asbestos Detected	
24001.000-0052	Built-up Roofing	Roof; southeast side, built-up roofing		Lab Cor
	Layer:	Description:	Analysis:	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
	Layer 2	fibrous tar, black	No Asbestos Detected	
	Layer 3	fibrous material, black	No Asbestos Detected	
	Layer 4	fibrous material, brown	No Asbestos Detected	
	Layer 5	fibrous tar, black	No Asbestos Detected	
	Layer 6	foam material, orange	No Asbestos Detected	
	Layer 7	fibrous tar, black	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB24001.000-1001	Paint	<99 ppm	First floor; center room, paint, gypsum, white, good condition	R.J. Lee Group
LB24001.000-1002	Paint	650 ppm	Second floor; council chamber, paint, gypsum, crème, good condition	R.J. Lee Group
LB24001.000-1003	Paint	<99 ppm	First floor; hallway at 104 cabinet, paint, gypsum, mauve, good condition	R.J. Lee Group
LB24001.000-1004	Paint	15,000 ppm	Ground level exterior, south side, paint, concrete, blue, fair condition	R.J. Lee Group
LB24001.000-1005	Paint	14,000 ppm	Roof; east side exterior, paint, concrete, blue, fair condition	R.J. Lee Group



LabCor Portland, Inc.
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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
<http://www.labcorpdx.net>

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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0001		Sample ID: S1			Date Analyzed:	06/18/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	mastic, brown	95 %	-	-	-	NAD
Layer 02	fibrous backing, brown	5 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	0 %

Client Sample ID: 24001.000-0002		Sample ID: S2			Date Analyzed:	06/18/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous	loose granular powder, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %

Client Sample ID: 24001.000-0003		Sample ID: S3			Date Analyzed:	06/18/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	coating, white	12 %	-	-	-	NAD
Layer 02	astic, brown	85 %	-	-	-	NAD
Layer 03	fibrous backing, brown	3 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	0 %



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0004	Sample ID: S4				Date Analyzed: 06/18/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 coating, white	5 %	-	-	-	NAD
Layer 02 compressed fibers, gray	95 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	10 %	40 %	-	-	-
Client Sample ID: 24001.000-0005	Sample ID: S5				Date Analyzed: 06/18/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous loose granular powder, white	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
-	-	-	-	-	-
					Matrix 100 %



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S6				Date Analyzed:	06/18/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 mastic, yellow	8 %	-	-	-		NAD
Layer 02 hard vinyl, green	87 %	6 %	-	-		6 %
Layer 03 mastic, black	1 %	Trace	-	-		< 1 %
Layer 04 fine compact powder, off-white	4 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	94 %
Layer 03	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	100 %

Comments: Chrysotile in layer 03 could be contaminant from layer 02.



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0007		Sample ID: S7			Date Analyzed:	06/18/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	mastic, yellow	12 %	-	-	-	NAD
Layer 02	hard compact powder, white	10 %	-	-	-	NAD
Layer 03	hard vinyl, green	62 %	6 %	-	-	6 %
Layer 04	mastic, black	4 %	2 %	-	-	2 %
Layer 05	hard compact powder, gray	12 %	Trace	-	-	< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	94 %
Layer 04	-	-	-	-	-	98 %
Layer 05	-	-	-	-	-	100 %

Comments: Asbestos in layers 04 and 05 could be contaminant from layer 03.

Client Sample ID: 24001.000-0008		Sample ID: S8			Date Analyzed:	06/18/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	ceramic particulate, off-white	1 %	-	-	-	NAD
Layer 02	loose granular powder, tan	99 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S9				Date Analyzed:	06/18/2019
					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 loose ceramic material, off-white	99 %	-	-	-		NAD
Layer 02 loose granular particulate, tan	1 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID:	Sample ID: S10				Date Analyzed:	06/18/2019
					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 mastic, beige	50 %	-	-	-		NAD
Layer 02 mastic, brown	44 %	Trace	-	-		< 1 %
Layer 03 rubbery material, gray	4 %	-	-	-		NAD
Layer 04 thin coating, white	2 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	100 %



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0011	Sample ID: S11			Date Analyzed: 06/19/2019
Client Sample Description:			Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
Homogeneous				Percent Asbestos:
loose granular powder, gray	100 %	-	-	-
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic
				Other
				Matrix
				100 %
Client Sample ID: 24001.000-0012	Sample ID: S12			Date Analyzed: 06/19/2019
Client Sample Description:			Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
Layer 01				Percent Asbestos:
mastic, yellow	10 %	-	-	-
Layer 02				NAD
vinyl, green	45 %	-	-	-
Layer 03				NAD
fibrous backing, black with thin mastic, off-white	45 %	-	-	-
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic
				Other
				Matrix
Layer 01	-	-	-	100 %
Layer 02	-	15 %	-	-
Layer 03	-	50 %	-	-
				85 %
				50 %

Client Sample ID: 24001.000-0013	Sample ID: S13			Date Analyzed: 06/19/2019
Client Sample Description:			Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
Homogeneous				Percent Asbestos:
compressed fibers, gray/tan	100 %	-	-	-
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic
	15 %	30 %	15 %	Other
				Matrix
				40 %



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P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S14				Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01 hard vinyl, beige	95 %	Trace	-	-		< 1 %
Layer 02 mastic, black	5 %	3 %	-	-		3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	97 %

Comments: Layer 01 could be close to or at 1% chrysotile. Further quantitative analysis is recommended.

Client Sample ID:	Sample ID: S15				Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01 hard vinyl, off-white	95 %	-	-	-		NAD
Layer 02 mastic, orange with fine compact powder, gray	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0016	Sample ID: S16				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite
					Percent Asbestos:
Layer 01					NAD
textured paint, white with fine compact powder, white	12 %	-	-	-	
Layer 02					NAD
compact chalky material with paper, white	88 %	-	-	-	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
					Matrix
Layer 01	-	-	-	-	100 %
Layer 02	4 %	2 %	-	Talc	Trace
					94 %
Client Sample ID: 24001.000-0017	Sample ID: S17				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite
					Percent Asbestos:
Homogeneous					
loose flaky material, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
					Matrix
	-	-	-	-	100 %
Client Sample ID: 24001.000-0018	Sample ID: S18				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite
					Percent Asbestos:
Layer 01					
hard vinyl, beige	92 %	Trace	-	-	< 1 %
Layer 02					
mastic, black	8 %	3 %	-	-	3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
					Matrix
Layer 01	-	-	-	-	100 %
Layer 02	-	-	-	-	97 %

Comments: Layer 01 could be close to or at 1% chrysotile. Further quantitative analysis is recommended.



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0019		Sample ID: S19			Date Analyzed:	06/19/2019	
Client Sample Description:					Analyst:	Ryan Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01	rubbery material, light green	85 %	-	-	-	NAD	
Layer 02	mastic, brown	10 %	-	-	-	NAD	
Layer 03	fine compact powder, off-white	5 %	Trace	-	-	< 1 %	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	
Layer 01	-	-	-	-	-	Matrix 100 %	
Layer 02	-	-	-	-	Talc	2 %	98 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 24001.000-0020		Sample ID: S20			Date Analyzed:	06/19/2019	
Client Sample Description:					Analyst:	Ryan Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01	paint, white/blue	10 %	-	-	-	NAD	
Layer 02	fine compact powder, off-white with paper backing, white	25 %	Trace	-	-	< 1 %	
Layer 03	fine compact powder, off-white with paper backing, brown	25 %	Trace	-	-	< 1 %	
Layer 04	compact chalky material with paper, pink	40 %	-	-	-	NAD	
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	
Layer 01	-	-	-	-	-	Matrix 100 %	
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	3 %	-	-	-	-	-	97 %



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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0021		Sample ID: S21			Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	hard vinyl, brown	95 %	5 %	-	-	5 %
Layer 02	mastic, black	5 %	3 %	-	-	3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	95 %
Layer 02	-	-	-	-	-	97 %

Client Sample ID: 24001.000-0022		Sample ID: S22			Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	rubbery material, light green	95 %	-	-	-	NAD
Layer 02	mastic, brown	5 %	Trace	-	-	< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %



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P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0023	Sample ID: S23				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite
					Percent Asbestos:
Layer 01					
vinyl, square pattern, brown	50 %	-	-	-	NAD
Layer 02					
fibrous backing, gray	35 %	40 %	-	-	40 %
Layer 03					
powdery backing, gray	15 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
					Matrix
Layer 01	-	-	-	-	-
Layer 02	-	20 %	-	-	-
Layer 03	-	-	-	-	-

Client Sample ID: 24001.000-0024	Sample ID: S24				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Ryan Brown
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite
					Percent Asbestos:
Homogeneous					
granular compact powder, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
					Matrix
	-	-	-	-	-
	-	-	-	-	100 %



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Report Date: 06/19/2019

Job Number: 193286

P.O. No: n/a

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S25				Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 woven fibers, white	8 %	-	-	-		NAD
Layer 02 mastic, tan	10 %	-	-	-		NAD
Layer 03 vinyl, square pattern, brown	25 %	-	-	-		NAD
Layer 04 fibrous backing, gray	25 %	40 %	-	-		40 %
Layer 05 hard vinyl, brown	20 %	4 %	-	-		4 %
Layer 06 mastic, black	1 %	Trace	-	-		< 1 %
Layer 07 fibrous backing, black	11 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	100 %	-	0 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %
Layer 04	-	20 %	-	-	-	40 %
Layer 05	-	-	-	-	-	96 %
Layer 06	-	-	-	-	-	100 %
Layer 07	-	50 %	-	-	-	50 %

Comments: Chrysotile in layer 06 could be contaminant from layer 05.



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Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S26			Date Analyzed:	06/19/2019
				Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 flexible vinyl, square pattern, brown	20 %	-	-	-	NAD
Layer 02 fibrous backing, gray	20 %	40 %	-	-	40 %
Layer 03 mastic, tan	8 %	-	-	-	NAD
Layer 04 mastic, dark brown	4 %	-	-	-	NAD
Layer 05 hard vinyl, brown	40 %	4 %	-	-	4 %
Layer 06 mastic, black	8 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	-	20 %	-	-	-
Layer 03	-	-	-	-	-
Layer 04	-	-	-	-	-
Layer 05	-	-	-	-	-
Layer 06	-	-	-	-	-

Client Sample ID:	Sample ID: S27			Date Analyzed:	06/19/2019
				Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous fibrous material, gray	100 %	35 %	-	-	35 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	35 %	-	-	-



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Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0028	Sample ID: S28			Date Analyzed: 06/19/2019
Client Sample Description:			Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
soft fibrous powder, tan	100 %	8 %	10 %	-
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic
				Other
				Matrix
				82 %

Client Sample ID: 24001.000-0029	Sample ID: S29			Date Analyzed: 06/19/2019
Client Sample Description:			Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Layer 01				
woven material with coating, white	25 %	-	-	-
Layer 02				
loose granular powder, gray	75 %	-	-	-
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic
				Other
Layer 01	-	25 %	-	-
Layer 02	-	-	10 %	-
				Matrix
				75 %
				90 %

Client Sample ID: 24001.000-0030	Sample ID: S30			Date Analyzed: 06/19/2019
Client Sample Description:			Analyst:	Ryan Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Layer 01				
woven material with coating, white	25 %	-	-	-
Layer 02				
granular powder, gray	75 %	-	-	-
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic
				Other
Layer 01	-	25 %	-	-
Layer 02	-	-	10 %	-
				Matrix
				75 %
				90 %



LabCor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
<http://www.labcorpdx.net>

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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S31				Date Analyzed:	06/19/2019
					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
hard vinyl, red		98 %	4 %	-	-	4 %
Layer 02						
mastic, black with cementitious material, gray		2 %	3 %	-	-	3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	96 %
Layer 02	-	-	-	-	-	97 %

Client Sample ID:	Sample ID: S32				Date Analyzed:	06/19/2019
					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
hard vinyl, off-white		99 %	2 %	-	-	2 %
Layer 02						
mastic, black		1 %	2 %	-	-	2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	98 %
Layer 02	-	-	-	-	-	98 %

Client Sample ID:	Sample ID: S33				Date Analyzed:	06/19/2019
					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer	Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
mastic, yellow		5 %	-	-	-	NAD
Layer 02						
hard vinyl, dark red		95 %	4 %	-	-	4 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	96 %



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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0034	Sample ID: S34				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous compressed fibrous material, tan with paint, white	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Matrix
	10 %	50 %	10 %	-	20 %
				Other	Perlite
					10 %
Client Sample ID: 24001.000-0035	Sample ID: S35				Date Analyzed: 06/19/2019
Client Sample Description:					Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 fine compact powder, off-white with paint, off-white	10 %	-	-	-	NAD
Layer 02 paper backing, off-white	15 %	-	-	-	NAD
Layer 03 fine compact powder, off-white	15 %	-	-	-	NAD
Layer 04 compact chalky material with paper, off-white	60 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Matrix
Layer 01	-	-	-	-	100 %
Layer 02	-	100 %	-	-	0 %
Layer 03	-	-	-	-	100 %
Layer 04	-	5 %	-	-	95 %



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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S36				Date Analyzed:	06/19/2019
					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 fine compact powder, off-white with paint, off-white	5 %	-	-	-		NAD
Layer 02 compact chalky material with paper, white	95 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	95 %

Client Sample ID:	Sample ID: S37				Date Analyzed:	06/19/2019
					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 rubbery material, off-white	90 %	-	-	-		NAD
Layer 02 mastic, off-white	6 %	-	-	-		NAD
Layer 03 mastic, brown	4 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	Talc Trace Wollastonite Trace	100 %



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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0038	Sample ID: S38				Date Analyzed: 06/19/2019
Client Sample Description:				Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 hard vinyl, off-white	97 %	2 %	-	-	2 %
Layer 02 mastic, black	3 %	2 %	-	-	2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	Matrix 98 %
Layer 02	-	-	-	-	98 %

Client Sample ID: 24001.000-0039	Sample ID: S39				Date Analyzed: 06/19/2019
Client Sample Description:				Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01 vinyl, light gray	97 %	-	-	-	NAD
Layer 02 mastic, black/orange	3 %	2 %	-	-	2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	Matrix 100 %
Layer 02	-	-	-	-	98 %

Client Sample ID: 24001.000-0040	Sample ID: S40				Date Analyzed: 06/19/2019
Client Sample Description:				Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous vinyl, gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
-	-	-	-	-	Matrix 100 %



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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	24001.000-0041				Sample ID:	S41	Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Stephanie Golden		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01								
vinyl, off-white		97 %	2 %	-	-			2 %
Layer 02								
mastic, black		3 %	4 %	-	-			4 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	-	-	-	-			98 %
Layer 02	-	-	-	-	-			96 %

Client Sample ID:	24001.000-0042				Sample ID:	S42	Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Stephanie Golden		
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01								
mastic, yellow		6 %	-	-	-			NAD
Layer 02								
hard vinyl, black		70 %	5 %	-	-			5 %
Layer 03								
fibrous backing, black		24 %	-	-	-			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
Layer 01	-	-	-	-	-			100 %
Layer 02	-	-	-	-	-			95 %
Layer 03	-	80 %	-	-	-			20 %



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Asbestos and Environmental Analysis

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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0043		Sample ID: S43			Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Stephanie Golden
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01	mastic, yellow	5 %	-	-	-	NAD
Layer 02	hard vinyl, red	25 %	4 %	-	-	4 %
Layer 03	mastic, black	1 %	-	-	-	NAD
Layer 04	fibrous backing, black	15 %	-	-	-	NAD
Layer 05	compressed fibers, tan	54 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	96 %
Layer 03	-	2 %	-	-	-	98 %
Layer 04	-	80 %	-	-	-	20 %
Layer 05	-	100 %	-	-	-	0 %

Client Sample ID: 24001.000-0044		Sample ID: S44			Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Stephanie Golden
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous	rubbery material, black	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	8 %	-	-	-	92 %



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Client: PBS Engineering and Environmental
4412 SW Corbett Avenue
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Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0045	Sample ID: S45			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
rubbery material, black	100 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
				Other
				Matrix
				100 %
Client Sample ID: 24001.000-0046	Sample ID: S46			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
rubbery material, black	100 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
				Other
				Matrix
				100 %
Client Sample ID: 24001.000-0047	Sample ID: S47			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
rubbery material, gray	100 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
				Other
				Matrix
				100 %
Client Sample ID: 24001.000-0048	Sample ID: S48			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
cementitious material, gray	100 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
				Other
				Matrix
				100 %



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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID: 24001.000-0049	Sample ID: S49			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
rubbery material, black	100 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
				Other
				Matrix
				100 %
Client Sample ID: 24001.000-0050	Sample ID: S50			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Homogeneous				
rocky fibrous tar, black	100 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
	10 %	2 %	-	Other
				Matrix
				88 %
Client Sample ID: 24001.000-0051	Sample ID: S51			Date Analyzed: 06/19/2019
Client Sample Description:				Analyst: Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite
				Percent Asbestos:
Layer 01				
rocky fibrous tar, black	25 %	-	-	-
Layer 02				
fibrous tar, black	75 %	-	-	-
Other Fibers	Fibrous Glass	Mineral Cellulose	Wool	Synthetic
				Other
Layer 01	15 %	-	-	-
Layer 02	10 %	-	-	-
				Matrix
				85 %
				90 %



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

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

Client Sample ID:	Sample ID: S52				Date Analyzed:	06/19/2019
Client Sample Description:					Analyst:	Stephanie Golden
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01 rocky fibrous tar, black	5 %	-	-	-		NAD
Layer 02 fibrous tar, black	10 %	-	-	-		NAD
Layer 03 fibrous material, black	3 %	-	-	-		NAD
Layer 04 fibrous material, brown	35 %	-	-	-		NAD
Layer 05 fibrous tar, black	6 %	-	-	-		NAD
Layer 06 foam material, orange	35 %	-	-	-		NAD
Layer 07 fibrous tar, black	6 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	10 %	-	-	-	-	90 %
Layer 02	15 %	10 %	-	-	-	75 %
Layer 03	-	10 %	-	-	-	90 %
Layer 04	-	80 %	-	-	-	Perlite 20 %
Layer 05	-	15 %	-	-	-	85 %
Layer 06	-	-	-	-	-	100 %
Layer 07	-	5 %	-	-	-	95 %



**LabCor
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BULK SAMPLE ASBESTOS ANALYSIS

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4412 SW Corbett Avenue
Portland, OR 97239

Report Number: 193286R01
Report Date: 06/19/2019

P.O. No: n/a

Job Number: 193286

Project Name:

Project Number: 24001.000 Phase 0002

Project Notes:

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Testing method is per 40 CFR 763 Subpart E, Appendix E, 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:

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Ryan Brown
PLM Technical Manager



193Z86 1/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 24001.000 Phase 0002

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

SENDER

Date Sent: June 17, 2019

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

Alex Johnson

Name

AJ

Authorized Signature

6/17/19 1400
Date Time

RECEIVER

Date Received: 6-17-19

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Jillian Lambert

Name

Jillian Lambert

Authorized Signature

6-17 2:00PM
Date Time

Sender's ID No.

Brief Description

Receiver's ID No.

24001.000-0001

24001.000-0002

24001.000-0003

24001.000-0004

24001.000-0005

24001.000-0006

24001.000-0007

24001.000-0008

24001.000-0009

24001.000-0010

24001.000-0011

24001.000-0012

24001.000-0013

24001.000-0014



193286 2/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

24001.000-0015	_____	_____
24001.000-0016	_____	_____
24001.000-0017	_____	_____
24001.000-0018	_____	_____
24001.000-0019	_____	_____
24001.000-0020	_____	_____
24001.000-0021	_____	_____
24001.000-0022	_____	_____
24001.000-0023	_____	_____
24001.000-0024	_____	_____
24001.000-0025	_____	_____
24001.000-0026	_____	_____
24001.000-0027	_____	_____
24001.000-0028	_____	_____
24001.000-0029	_____	_____
24001.000-0030	_____	_____
24001.000-0031	_____	_____
24001.000-0032	_____	_____
24001.000-0033	_____	_____
24001.000-0034	_____	_____
24001.000-0035	_____	_____
24001.000-0036	_____	_____
24001.000-0037	_____	_____
24001.000-0038	_____	_____
24001.000-0039	_____	_____



193786 3/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

24001.000-0040	_____	_____
24001.000-0041	_____	_____
24001.000-0042	_____	_____
24001.000-0043	_____	_____
24001.000-0044	_____	_____
24001.000-0045	_____	_____
24001.000-0046	_____	_____
24001.000-0047	_____	_____
24001.000-0048	_____	_____
24001.000-0049	_____	_____
24001.000-0050	_____	_____
24001.000-0051	_____	_____
24001.000-0052	_____	_____

Please analyze the enclosed 52 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

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

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

48 Hour

SPECIAL INSTRUCTIONS:

RD/DT

LABORATORY REPORT

PBS Engineering & Environmental
 4412 Southwest Corbett Ave.
 Portland, OR 97239

Attn: Alex Johnson
 Phone: 503-248-1939

Email: alex.johnson@pbsusa.com

RJ Lee Group Job No.: PA180620190012
 Samples Received: June 18, 2019

Report Date: June 20, 2019

Client Project: 24001.000 Phase 0002
 Purchase Order No.: N/A
 Matrix: Solid

Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID RJ Lee Group ID Sampling Date

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit	
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg
LB24001.000-1001	PA180620190012-001	NP	Lead	< 0.0099	< 99	0.0099	99
LB24001.000-1002	PA180620190012-002	NP	Lead	0.065	650	0.0097	97
LB24001.000-1003	PA180620190012-003	NP	Lead	< 0.0099	< 99	0.0099	99
LB24001.000-1004	PA180620190012-004	NP	Lead	1.5	15000	0.0100	100
LB24001.000-1005	PA180620190012-005	NP	Lead	1.4	14000	0.0098	98

Comments:

Report Qualifiers (Q):

P : PA-DEP Accredited (PA DEP Lab ID 02-00396, NEELAP)

N : NY ELAP Accredited (NY ELAP Lab Code 10884)

C : CA ELAP Accredited (CA ELAP Certificate 1970)

A : AHA-LAP, LLC Accredited (Lab ID 100364)

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

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

This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditation under different accreditation 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 accreditation. 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 NEELAP meet the requirements of the NEELAP 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
 Laboratory Supervisor



TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 24001.000 **Phase 0002**

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

SENDER

Date Sent: June 17, 2019

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

Alex Johnson

Name

AJ

Authorized Signature

6/17/19

Date

RECEIVER

Date Received: 06/18/19 1015

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

Erin Repine

Name

E Repine

Authorized Signature

06/18/19

Date

Sender's ID No.

LB24001.000-1001
LB24001.000-1002
LB24001.000-1003
LB24001.000-1004
LB24001.000-1005

Brief Description

Receiver's ID No.

ANALYSIS REQUESTED:

- LEAD: Paint
 Wipe
 Soil/Misc.
 Air
 TCLP

Please analyze the enclosed 5 sample(s) for LEAD content using Atomic Absorption Method.
PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

48 Hour

SPECIAL INSTRUCTIONS:

THIS IS TO CERTIFY THAT

RICH A. DUFRESNE

**HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for**

**8-HOUR ASBESTOS INSPECTOR / MANAGEMENT
PLANNER REFRESHER**

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

Course Date: 04/03/2019

Course Location: Portland, OR

Certificate: IMR-19-0264A

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

Expiration Date: 04/03/2020



For verification of the authenticity of this
certificate contact:

PBS Environmental
4112 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Gregory M. Baker

Greg Baker, Instructor

THIS IS TO CERTIFY THAT

DAVID TOY

**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: 10/05/2018
Course Location: Portland, OR
Certificate: IR-18-5627B



4-Hour AHERA Inspector Refresher

Expiration Date: 10/05/2019

For verification of the authenticity of this
certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

A handwritten signature in black ink that reads "Greg N. Baker".

Greg Baker, Instructor