Pre-Demolition Hazardous Materials Survey Report

Edgefield Buildings B and F
2345 NE 244th Avenue
Wood Village, OR 97060

Prepared for:

Reynolds School District No. 7

April 2021
Project No.: 23514.174 Phase No.: 0001

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GENERAL INFORMATION

BUILDING DATA

Edgefield Buildings B and F

2345 NE 244th Avenue

Wood Village, OR 97060

CLIENT DATA

Reynolds School District No. 7

1204 NE 201st Avenue

Fairview, OR 97024

BACKGROUND INFORMATION

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
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Floor plan diagrams indicating material and sample locations
- 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.

Joel McCarthy
Project Manager/Prime Inspector
Accreditation #: IRO-21-2771B

Signature Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
3/15/2021	Joel McCarthy	Sample collection
3/16/2021	Joel McCarthy	Sample collection
3/29/2021	Joel McCarthy	Sample collection

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

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.
(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

See sample inventory for specific results.

Results	Material Description	Location	Details
(P)	Asbestos Pipe Insulation	Building F: basement level, wet walls, attic spaces, tunnels, crawl space	1,400 LF Friable Good Response Action: Remove prior to demolition
(P)	Boiler Jacket Insulation, Rope Gasket, Refractory	Building F: boiler room	400 SF Friable Good Response Action: Remove prior to demolition
(P)	Breeching	Building F: basement	100 SF Friable Good Response Action: Remove prior to demolition
(P)	Fire Door	Building F: boiler room	1 EA Non-friable Good Response Action: Remove prior to demolition
(P)	Tank Insulation	Building F: boiler room	200 SF Friable Good Response Action: Remove prior to demolition

INSPECTION SUMMARY

(+)	25%	Roofing Debris	Building F: attic spaces throughout	Friable Poor Response Action: Remove prior to demolition
(+)	2%	Vinyl Floor Tile/Mastic	Building F: various rooms throughout - see drawings	Friable Good Response Action: Remove prior to demolition
(+)	4%	Wainscotting mastic	Building F: various rooms throughout - see drawings	Friable Good Response Action: Remove prior to demolition
(+)	<1%	Sink Undercoating, Black	Building F: see drawing	1 EA Non-friable Good Response Action: Remove as needed
(M)	<1%	Wall and Ceiling Plaster	Building F: throughout	NOT QUANTIFIED Friable Good Response Action: Remove as needed
(+)	35%	Built-up Roofing and mastic	Building F: throughout	Non-friable Good Response Action: Remove prior to demolition
(+)	2%	Door and Window Caulking	Building F: throughout exterior	2,000 LF Non-friable Good Response Action: Remove prior to demolition
(+)	3%	Vinyl Floor Tile/Mastic	Building B: various locations throughout - see drawings	Friable Good Response Action: Remove prior to demolition

INSPECTION SUMMARY

(+)	<1%	Wallboard mastic	Building B: basement level	NOT QUANTIFIED Friable Good Response Action: Remove as needed
(+)	50%	Sheet Floor Covering	Building B: various locations throughout - see drawings	Friable Good Response Action: Remove prior to demolition

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.

Material (type)	Location
Asphalt Impregnated Paper Vapor Barrier	Building F throughout
Black Masonry Coating	Building F throughout
Blown-in Insulation	Building F throughout
Brick/Mortar	Building F throughout
Carpet Mastic	Building F throughout
Ceramic Tile Grout/Mortar	Building F throughout
Covebase/Mastic	Building F throughout
Glued-on Ceiling Tiles	Building F throughout
Gypsum Wallboard/Joint Compound	Building F throughout
Lay-in Ceiling Tile	Building F throughout
Mechanical Isolation Cloth	Building F throughout
Sheet Floor Covering	Building F throughout
Sink Undercoating, White	Building F throughout
Terra Cotta Mortar/Grout	Building F throughout
Textured Ceiling Material	Building F throughout
Window Glazing Compound	Building F throughout
Asphalt Impregnated Paper	Building B throughout
Blown-in Insulation	Building B throughout
Brick Mortar	Building B throughout
Cementitious Roof Shingles	Building B throughout
Ceramic Tile Grout	Building B throughout
Covebase/Mastic	Building B throughout
Duct Mastic, Gray	Building B throughout
Glued-on Ceiling Tiles	Building B throughout
Gypsum Wallboard/Joint Compound	Building B throughout
Sheet Floor Covering	Building B throughout
Trim/Window Caulk	Building B throughout

INSPECTION SUMMARY

Vinyl Floor Tile, 12x12 Gray and Tan/Mastic	Building B basement and first floor
Wall and Ceiling Plaster	Building B throughout
Window Glazing Compound	Building B throughout

INSPECTION SUMMARY

BACKGROUND

In March of 2021, PBS performed a pre-demolition hazardous materials survey of Buildings B and F on the Reynolds School District Edgefield Campus located at 2345 NE 244th Avenue in Wood Village, Oregon. The survey was requested by Reynolds School District in anticipation of demolition.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable hazardous building materials for removal prior to demolition.

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

ASBESTOS SUMMARY

The buildings were inspected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector to determine the presence, location, and approximate quantity of asbestos-containing materials (ACM). Seventy-nine 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, for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

Building F:

- Presumed asbestos-containing pipe insulation was noted above ceilings, within wet walls, and throughout the basement level. Pipe insulation was not physically accessible for sampling due to flooding in the basement level and was presumed to contain asbestos.
- Boiler insulation, rope gaskets, and refractory material were all inaccessible due to basement flooding and are all presumed to contain asbestos.
- Breeching was noted in the basement level but was inaccessible due to flooding.
- A single fire door was noted at the entrance to the boiler room.
- Tank insulation was inaccessible due to basement flooding and are all presumed to contain asbestos.
- Isolated areas of roofing debris were noted in several attic locations throughout the building. Debris is intermixed with blown-in attic insulation.
- Vinyl floor tile and mastic was noted in the majority of locations throughout the building. See drawings for details. Vinyl flooring was often covered with carpeting and/or additional layers of asbestos flooring.
- Mastic associated with wooden wainscotting was noted in various locations throughout the building. See drawings for details.
- A single sink undercoating containing less than 1% (<1%) asbestos was noted. See drawings for location. It should be noted that the Environmental Protection Agency (EPA) and DEQ do not consider building materials that contain <1% asbestos to be an asbestos-containing building material. This sink is included in the asbestos-containing materials section of this report for the sake of hazard communication since there are some OSHA restrictions associated with these materials.
- Wall and ceiling plaster was noted to contain <1% asbestos throughout the building. The EPA and DEQ do not consider building materials that contain <1% asbestos to be an asbestos-containing building material.

INSPECTION SUMMARY

This plaster is included in the asbestos-containing materials section of this report for the sake of hazard communication since there are some OSHA restrictions associated with these materials.

- Built-up roofing and associated mastic were found to be asbestos-containing throughout the building. It should be noted that the bottom layer of roofing was asbestos-containing.
- Door and window caulking was noted throughout the exterior of the building. Caulking was noted on the perimeter of door and window frames as well as between components such as door stops and frames.

Building B:

- Vinyl floor tile and mastic was noted in various locations throughout the building. See drawings for details. Vinyl flooring was often covered with carpeting and/or additional layers of asbestos flooring.
- Mastic containing <1% asbestos was noted in association with wall coverings throughout the building.
- Sheet flooring was noted in various locations throughout the building. See drawings for details. Vinyl flooring was often covered with carpeting and/or additional layers of asbestos flooring.

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

INSPECTION SUMMARY

Limitations

At the time of the site visits the basement level of Building F was flooded. Because of this, some portions of the basement level were inaccessible for inspection and survey. These locations include the boiler pit and the dirt floor crawl space/tunnel. Materials which could be identified visually are presumed to contain asbestos and quantities were estimated. Additional materials may be present.

Asbestos Regulations

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

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

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

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

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

INSPECTION SUMMARY

LEAD SUMMARY

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

Seven paint chip samples were collected from representative building components and submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA). The concentration of lead in the samples range from below the limits of detection to 109,000 parts per million (ppm).

In addition, approximately 35 lead-containing vent pipe caps were noted at the roof level of Building F.

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

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

Lead-Containing Paint Regulations

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

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

Disposal

According to 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

PCB

Polychlorinated Biphenyls (PCBs)/Mercury Investigation

PBS conducted a visual inspection of the buildings for suspect PCB lamp ballasts, mercury-containing fluorescent lamp tubes, and mercury-containing thermostat switches. PBS observed a single mercury-containing switch within building B. See drawings for location.

Approximately 30 PCB-containing light ballasts were noted in Building F.

A total of approximately 220 mercury vapor light tubes were noted in both buildings. This investigation was a visual assessment only; no samples were collected.

Mercury-Containing Compact Fluorescent Light Tubes/Switches Regulatory Issues

All mercury-containing compact fluorescent light bulbs and switches should be carefully handled, packaged, and recycled or disposed of in the appropriate manner.

Please refer to the following documents for requirements for removal and disposal of mercury-containing waste:

- US Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761).
- 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.

GENERAL NOTES

1. 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.
3. IF SUSPECT MATERIALS ARE ENCOUNTERED THAT ARE NOT IDENTIFIED ON THIS DRAWING, TESTING IS RECOMMENDED PRIOR TO IMPACT.

SURVEY NOTES

1. RESIDUAL ASBESTOS-CONTAINING FLOORING AND MASTIC MAY EXIST UNDER CASEWORK THROUGHOUT.
2. ADDITIONAL ASBESTOS-CONTAINING PIPE INSULATION LIKELY TO EXIST ABOVE CEILINGS, WITHIN WALLS, IN TUNNELS, AND IN INTERSTITIAL SPACES THROUGHOUT.
3. APPROXIMATELY 300 MERCURY VAPOR LIGHT TUBES THROUGHOUT. APPROXIMATELY 20 PCB-CONTAINING LIGHTING BALLASTS PRESENT IN VARIOUS LOCATIONS THROUGHOUT.
4. CARPETING OVERLIES ASBESTOS FLOORING IN MOST LOCATIONS.
5. ADDITIONAL ASBESTOS-CONTAINING BOILER, TANK, AND PIPE INSULATION PRESENT IN BASEMENT LEVEL SEE SURVEY REPORT FOR DETAILS.
6. ADDITIONAL ISOLATED AREAS OF MERCURY VAPOR LIGHT TUBE DEBRIS PRESENT THROUGHOUT.
7. WALL AND CEILING PLASTER CONTAINING <1% ASBESTOS PRESENT THROUGHOUT.
8. ASBESTOS-CONTAINING ROOFING DEBRIS PRESENT IN ATTIC SPACES THROUGHOUT.

KEY NOTES

(1) MERCURY VAPOR LIGHT TUBE DEBRIS THROUGHOUT AREA.

(2) WET WALL WITH PRESUMED ASBESTOS-CONTAINING PIPE INSULATION.

(3) <1% ASBESTOS SINK UNDERCOATING

LEGEND

- ASBESTOS-CONTAINING FLOOR TILE AND MASTIC
- TWO-LAYERS OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC
- THREE-LAYERS OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC
- ASBESTOS-CONTAINING FLOOR TILE AND MASTIC UNDER NON-ASBESTOS SHEET FLOORING
- WAINSCOTTING WITH ASBESTOS-CONTAINING MASTIC

ASBESTOS SAMPLE SYMBOLS

007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

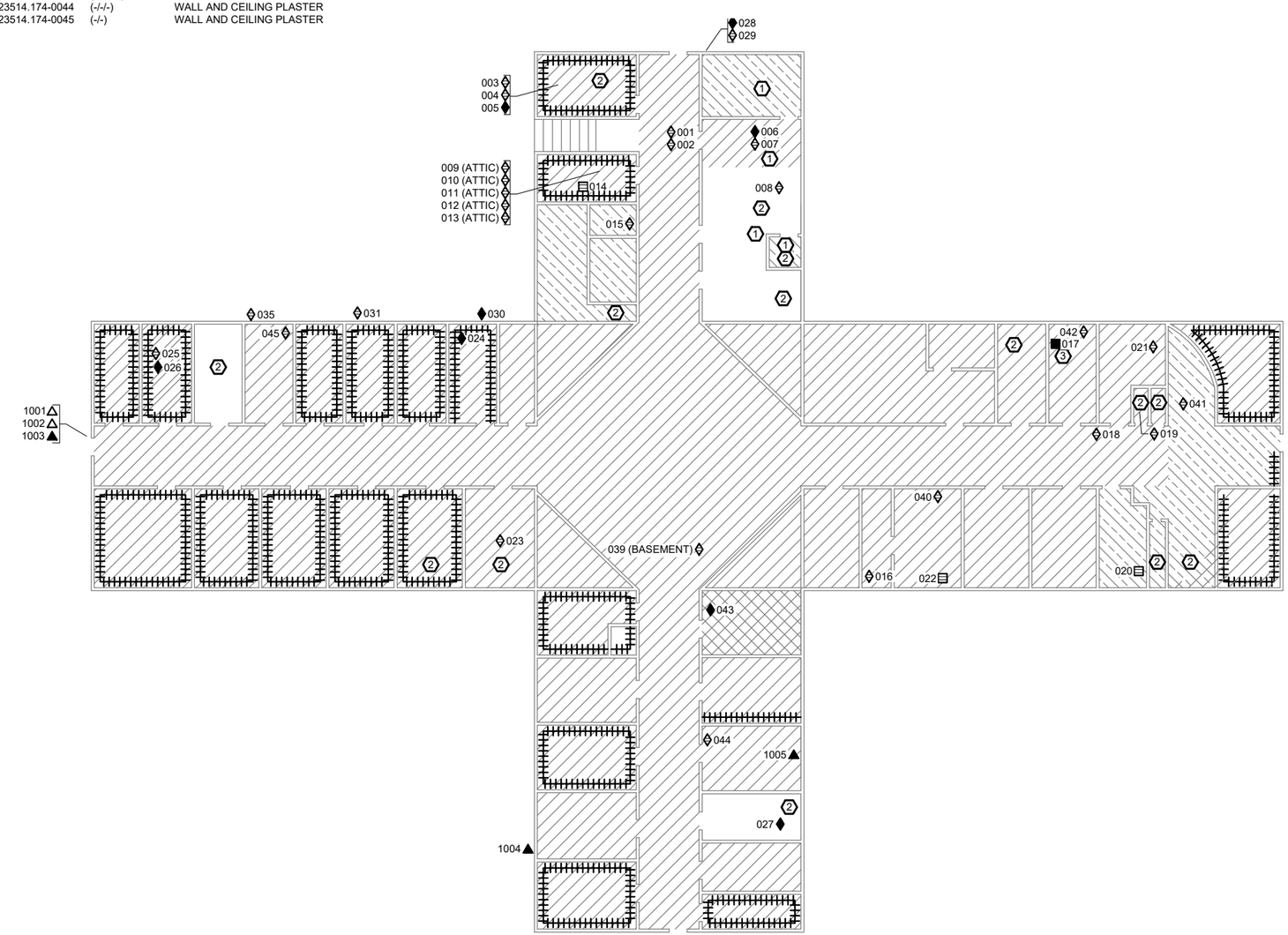
NOT TESTED	NEGATIVE -	POSITIVE +	
○	⊖	●	THERMAL SYSTEM INSULATION
□	▤	■	SURFACING MATERIAL
◊	◈	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
001	23514.174-0001	(-)	GLUED-ON CEILING TILES
002	23514.174-0002	(-)	WALL AND CEILING PLASTER
003	23514.174-0003	(+)	MASTIC
004	23514.174-0004	(-/-/-)	COVEBASE/MASTIC
005	23514.174-0005	(+)	MASTIC
006	23514.174-0006	(+/<1%)	VINYL FLOOR TILE/MASTIC
007	23514.174-0007	(-/-)	VINYL FLOOR TILE/MASTIC
008	23514.174-0008	(-)	MORTAR
009	23514.174-0009	(-)	BLOWN-IN INSULATION
010	23514.174-0010	(-)	BLOWN-IN INSULATION
011	23514.174-0011	(-)	BLOWN-IN INSULATION
012	23514.174-0012	(-/-/-/-)	PAPER FELT
013	23514.174-0013	(-)	MECHANICAL ISOLATION CLOTH
014	23514.174-0014	(-)	TEXTURED CEILING MATERIAL
015	23514.174-0015	(-/-)	VINYL FLOOR TILE/MASTIC
016	23514.174-0016	(-/-)	CERAMIC TILE/GROUT
017	23514.174-0017	(<1%)	SINK UNDERCOATING
018	23514.174-0018	(-)	WALL AND CEILING PLASTER
019	23514.174-0019	(-/-)	LAY-IN CEILING TILE
020	23514.174-0020	(-)	SINK UNDERCOATING
021	23514.174-0021	(-/-/-/-)	VINYL FLOOR TILE/MASTIC
022	23514.174-0022	(-)	TEXTURED CEILING MATERIAL
023	23514.174-0023	(-/-)	GLUED-ON CEILING TILES

INVENTORY OF ASBESTOS SAMPLES (CONTINUED)

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
024	23514.174-0024	(-/<1%/-)	MASTIC
025	23514.174-0025	(-/-/-)	SHEET FLOOR COVERING
026	23514.174-0026	(+/-)	VINYL FLOOR TILE/MASTIC
027	23514.174-0027	(+)	BUILT-UP ROOFING
028	23514.174-0028	(<1%)	CAULK
029	23514.174-0029	(-/-)	BRICK & MORTAR
030	23514.174-0030	(+)	CAULK
031	23514.174-0031	(-)	CONCRETE COATING
035	23514.174-0035	(-)	WINDOW GLAZING COMPOUND
039	23514.174-0039	(-)	CONCRETE ROOFING
040	23514.174-0040	(-/-)	WALL AND CEILING PLASTER
041	23514.174-0041	(-/-/-)	WALL AND CEILING PLASTER
042	23514.174-0042	(-/-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
043	23514.174-0043	(<1%/-)	WALL AND CEILING PLASTER
044	23514.174-0044	(-/-/-)	WALL AND CEILING PLASTER
045	23514.174-0045	(-/-)	WALL AND CEILING PLASTER



FIRST FLOOR PLAN - BUILDING "F"

SCALE: 1" = 10'
0 5' 10' 20'

PREPARED FOR: PORTLAND PUBLIC SCHOOLS

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
503.248.1939
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HAZARDOUS MATERIAL SURVEY PLAN

EDGEFIELD SITE

2345 NE 244TH AVENUE, WOOD VILLAGE, OREGON

NO	REVISION	DATE	BY	APPD

DRAWN BY: JAB
CHECKED: JMc
DATE: APRIL 2021
PROJECT NUMBER: 23514.174
SHEET DRAWING NO: HS1
SHEET 1 OF 3

ASBESTOS-CONTAINING FLOOR TILE AND MASTIC

GENERAL NOTES

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SURVEY NOTES

1. ASBESTOS-CONTAINING BUILT-UP ROOFING AND ROOF MASTIC PRESENT THROUGHOUT.
2. APPROXIMATELY 35 LEAD-CONTAINING VENT PIPE CAPS PRESENT THROUGHOUT ROOF LEVEL.

KEY NOTES

(1) DOOR WITH ASBESTOS-CONTAINING CAULK.

LEGEND

WINDOWS WITH ASBESTOS-CONTAINING CAULK

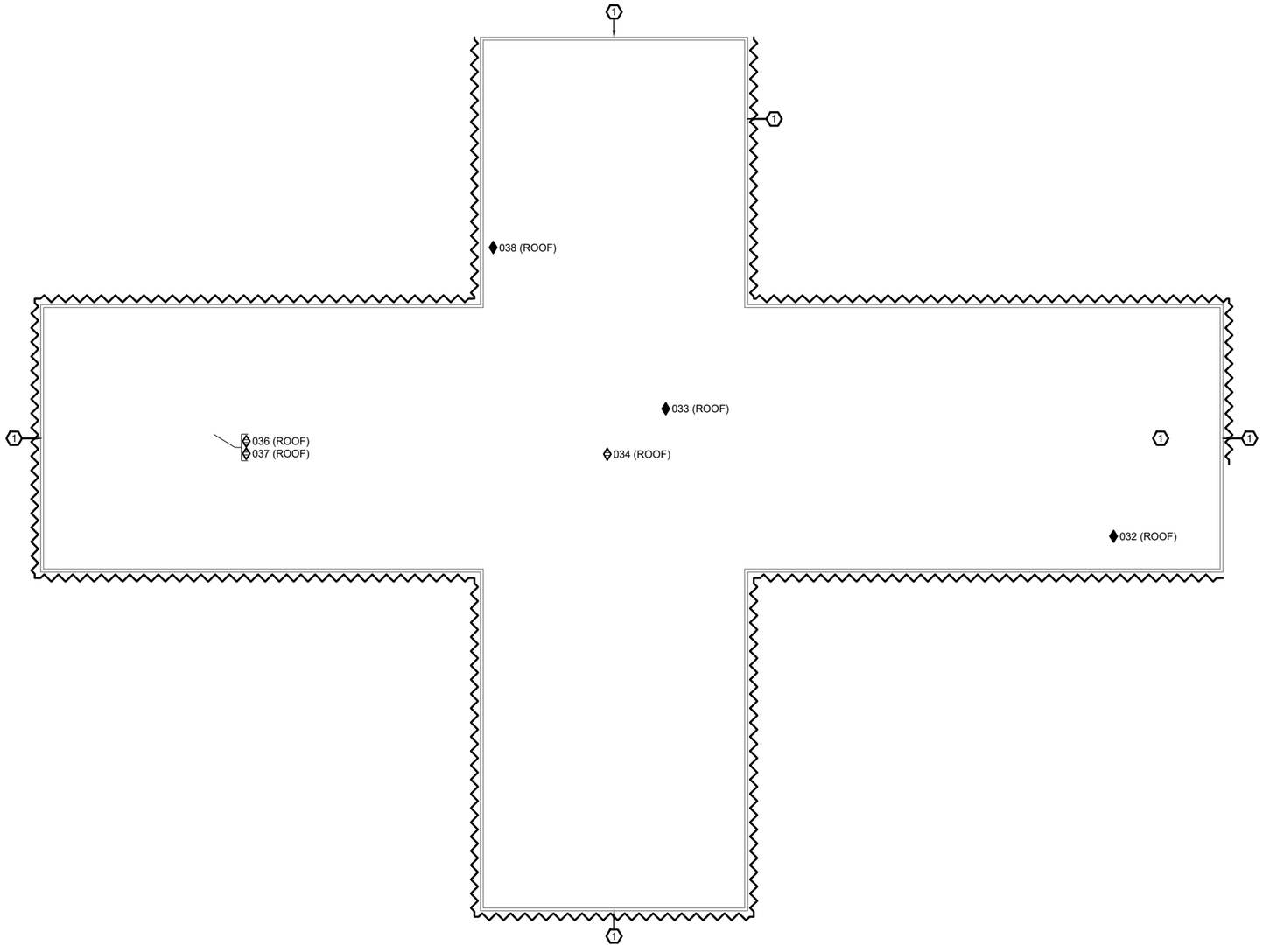
ASBESTOS SAMPLE SYMBOLS

◊ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

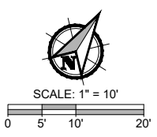
NOT TESTED	NEGATIVE -	POSITIVE +	
○	⊖	●	THERMAL SYSTEM INSULATION
□	⊟	■	SURFACING MATERIAL
◊	◈	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◆ 032	23514.174-0032	(-/-/-/-/-/+/+/+)	BUILT-UP ROOFING
◆ 033	23514.174-0033	(-/-/-/-/+/+/-/+)	BUILT-UP ROOFING
◈ 034	23514.174-0034	(-)	
◈ 036	23514.174-0036	(-/-/-/-/-/-/-)	BUILT-UP ROOFING
◈ 037	23514.174-0037	(-)	MASTIC
◆ 038	23514.174-0038	(+)	MASTIC



ROOF PLAN - BUILDING "F"



PREPARED FOR: PORTLAND PUBLIC SCHOOLS

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PBS

HAZARDOUS MATERIAL SURVEY PLAN

EDGEFIELD SITE

2345 NE 244TH AVENUE, WOOD VILLAGE, OREGON

NO	REVISION	DATE	BY	APPD

DRAWN BY: JAB
CHECKED: JMc
DATE: APRIL 2021
PROJECT NUMBER: 23514.174
SHEET DRAWING NO: HS2
SHEET 2 OF 3

FULL SIZE SHEET FORMAT IS 24X36; IF PRINTED SIZE IS NOT 24X36, THEN THIS SHEET FORMAT HAS BEEN MODIFIED & INDICATED DRAWING SCALE IS NOT ACCURATE.

GENERAL NOTES

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3. IF SUSPECT MATERIALS ARE ENCOUNTERED THAT ARE NOT IDENTIFIED ON THIS DRAWING, TESTING IS RECOMMENDED PRIOR TO IMPACT.

SURVEY NOTES

1. APPROXIMATELY 20 MERCURY VAPOR LIGHT TUBES THROUGHOUT.
2. <1% ASBESTOS MASTIC ON WALL COVERINGS THROUGHOUT.
3. CARPETING OVERLIES ASBESTOS FLOORING IN MOST LOCATIONS.

KEY NOTES

(1) MERCURY-CONTAINING SWITCH

LEGEND

- ASBESTOS-CONTAINING FLOOR TILE AND MASTIC
- TWO-LAYERS OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC
- TWO-LAYERS OF ASBESTOS-CONTAINING SHEET FLOORING

ASBESTOS SAMPLE SYMBOLS

◊ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

NOT TESTED -	NEGATIVE -	POSITIVE +	
○	⊖	●	THERMAL SYSTEM INSULATION
□	▤	■	SURFACING MATERIAL
◊	◈	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◊ 100	23514.174-0100	(-/-/-)	VINYL FLOOR TILE/MASTIC
◊ 101	23514.174-0101	(-/-/-)	WALL AND CEILING PLASTER
◊ 102	23514.174-0102	(-/-/-)	WALL AND CEILING PLASTER
◊ 103	23514.174-0103	(-)	WINDOW GLAZING COMPOUND
◊ 104	23514.174-0104	(-/-)	GYPSUM WALLBOARD
◊ 105	23514.174-0105	(-/-)	COVEBASE/MASTIC
◆ 106	23514.174-0106	(-/-/+)	VINYL FLOOR TILE/MASTIC
◊ 107	23514.174-0107	(-/-)	COVEBASE/MASTIC
◊ 108	23514.174-0108	(-/-/-/-)	VINYL FLOOR TILE/MASTIC
◆ 109	23514.174-0109	(<1%)	MASTIC
◊ 110	23514.174-0110	(-)	MASTIC
◊ 111	23514.174-0111	(-)	MASTIC
◊ 112	23514.174-0112	(-)	SHEET FLOOR COVERING
◊ 113	23514.174-0113	(-)	WALL AND CEILING PLASTER
◊ 114	23514.174-0114	(-)	ASPHALT IMPREGNATED PAPER
◊ 115	23514.174-0115	(-)	CERAMIC TILE GROUT
◊ 116	23514.174-0116	(-/-)	VINYL FLOOR TILE/MASTIC
◆ 117	23514.174-0117	(-/+/+/-/-)	SHEET FLOOR COVERING
◆ 118	23514.174-0118	(-/<1%/+)	VINYL FLOOR TILE/MASTIC
◆ 119	23514.174-0119	(-/<1%/+)	VINYL FLOOR TILE/MASTIC
◊ 120	23514.174-0120	(-)	BLOWN-IN INSULATION
◊ 121	23514.174-0121	(-)	BLOWN-IN INSULATION
◊ 122	23514.174-0122	(-)	BLOWN-IN INSULATION
◊ 123	23514.174-0123	(-/-/-)	GLUED-ON CEILING TILES
◆ 124	23514.174-0124	(-/<1%/+)	VINYL FLOOR TILE/MASTIC
◆ 125	23514.174-0125	(-/+/-/-/-/-)	SHEET FLOOR COVERING
◊ 126	23514.174-0126	(-/-)	WALL AND CEILING PLASTER
◊ 127	23514.174-0127	(-)	MORTAR
◊ 128	23514.174-0128	(-)	CEMENTITIOUS ROOF SHINGLES
◊ 129	23514.174-0129	(-)	CEMENTITIOUS ROOF SHINGLES
◊ 130	23514.174-0130	(-)	WINDOW GLAZING COMPOUND
◊ 131	23514.174-0131	(-)	ASPHALT IMPREGNATED PAPER
◊ 132	23514.174-0132	(-)	CAULK
◊ 133	23514.174-0133	(-)	CAULK

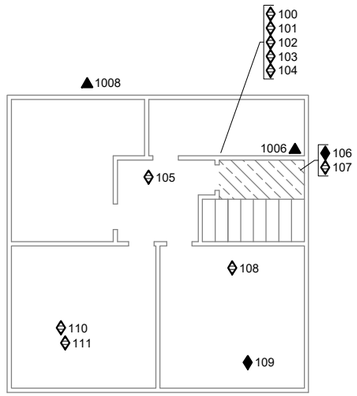
LEAD SAMPLE SYMBOLS

△ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

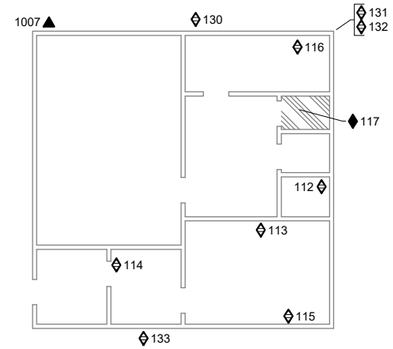
▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

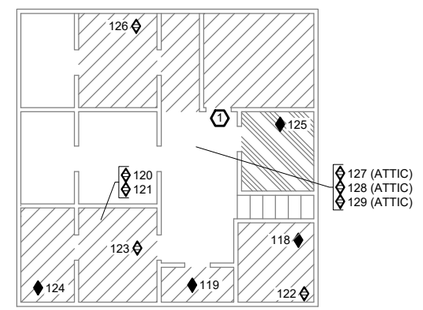
SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1006	23514.174-1006	20.2	PAINT ON BUILDING B; BRICK MORTAR
▲1007	23514.174-1007	46,400	PAINT ON BUILDING B; WINDOW FRAME, WOOD, GRAY
▲1008	23514.174-1008	2,750	PAINT ON BUILDING B; SIDING, WOOD, BLUE



BASEMENT



FIRST FLOOR



SECOND FLOOR

BUILDING "B"

SCALE: 1" = 8'
0 4' 8' 16'

PREPARED FOR: PORTLAND PUBLIC SCHOOLS

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, OR 97239
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pbsusa.com

HAZARDOUS MATERIAL SURVEY PLAN
EDGEFIELD SITE
2345 NE 244TH AVENUE, WOOD VILLAGE, OREGON

NO	REVISION	DATE	BY	APPD

DRAWN BY: JAB
CHECKED: JMc
DATE: APRIL 2021
PROJECT NUMBER: 23514.174
SHEET DRAWING NO: HS3
SHEET 3 OF 3

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0001	Glued-on Ceiling Tiles	Building F; northeast hall, 12" by 12" peghole, mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown, with wood fibers and powder, tan/gray	No Asbestos Detected	
23514.174-0002	Wall and Ceiling Plaster	Building F; northeast hall, wall plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, gray/white, with coating, multicolored	No Asbestos Detected	
23514.174-0003	Mastic	Building F; room 1, wainscot mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic material, black, with wood, tan	4% Chrysotile	
23514.174-0004	Covebase/Mastic	Building F; room 1, covebase, gray		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	rubbery material, gray	No Asbestos Detected	
	Layer 02	mastic material, clear/off-white/tan	No Asbestos Detected	
	Layer 03	granular compact powder, white	No Asbestos Detected	
23514.174-0005	Mastic	Building F; room 1, carpet mastic, vinyl floor tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose particulate, brown/tan	3% Chrysotile	
23514.174-0006	Vinyl Floor Tile/Mastic	Building F; kitchen, 9" by 9" vinyl floor tile, red		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, red	2% Chrysotile	
	Layer 02	mastic, black	<1% Chrysotile	
23514.174-0007	Vinyl Floor Tile/Mastic	Building F; kitchen covebase, tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	loose particulate, brown/red/off-white	No Asbestos Detected	
	Layer 02	rubbery material, tan	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0008	Mortar	Building F; kitchen, terracotta, mortar		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose particulate, brown/red/white	No Asbestos Detected	
23514.174-0009	Blown-in Insulation	Building F; north attic, blown-in attic insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, black/gray	No Asbestos Detected	
23514.174-0010	Blown-in Insulation	Building F; north attic, blown-in attic insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, black/gray	No Asbestos Detected	
23514.174-0011	Blown-in Insulation	Building F; north attic, blown-in attic insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, black/gray	No Asbestos Detected	
23514.174-0012	Paper Felt	Building F; north attic, attic vapor barrier		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	fibrous material, tan	No Asbestos Detected	
	Layer 02	compact powdery material, brown	No Asbestos Detected	
	Layer 03	fibrous material, black	No Asbestos Detected	
	Layer 04	loose fibrous material, yellow	No Asbestos Detected	
23514.174-0013	Mechanical Isolation Cloth	Building F; north attic, mechanical isolation cloth		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	woven fibers, brown/black	No Asbestos Detected	
23514.174-0014	Textured Ceiling Material	Building F; room 2, textured ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose granular material, gray/white/tan	No Asbestos Detected	
23514.174-0015	Vinyl Floor Tile/Mastic	Building F; room 3, 12" by 12" beige vinyl floor tile with black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, tan/gray	No Asbestos Detected	
	Layer 02	mastic, black	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0016	Ceramic Tile/Grout	Building F; room 16, ceramic floor tile with mastic/grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	hard compact powder, tan/gray/off-white	No Asbestos Detected	
	Layer 02	granular compact powder, white	No Asbestos Detected	
23514.174-0017	Sink Undercoating	Building F; room 8, black sink undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose particulate, black	<1% Chrysotile	
23514.174-0018	Wall and Ceiling Plaster	Building F; hallway at room 9, plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose granular powder, gray/white/tan	No Asbestos Detected	
23514.174-0019	Lay-in Ceiling Tile	Building F; room 9, lay-in ceiling tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	coating, off-white	No Asbestos Detected	
	Layer 02	compressed fibrous material, off-white	No Asbestos Detected	
23514.174-0020	Sink Undercoating	Building F; room 13, white sink undercoat		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose particulate, tan	No Asbestos Detected	
23514.174-0021	Vinyl Floor Tile/Mastic	Building F; room 10, vinyl floor tile, black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	hard vinyl, off-white	No Asbestos Detected	
	Layer 02	mastic, yellow	No Asbestos Detected	
	Layer 03	hard vinyl, off-white	No Asbestos Detected	
	Layer 04	mastic, orange/black	No Asbestos Detected	
23514.174-0022	Textured Ceiling Material	Building F; room 15, textured ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard compact powder, white/gray	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0023	Glued-on Ceiling Tiles	Building F; room 27, glued-on ceiling tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	granular compact powder, gray	No Asbestos Detected	
	Layer 02	mastic, brown	No Asbestos Detected	
	Layer 03	compressed fibers, brown	No Asbestos Detected	
23514.174-0024	Mastic	Building F; room 18, beige & black mastic and wainscoting		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	mastic, white	No Asbestos Detected	
	Layer 02	mastic, black	<1% Chrysotile	
	Layer 03	compressed fibers, brown	No Asbestos Detected	
23514.174-0025	Sheet Floor Covering	Building F; room #25, beige sheet floor covering		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	flexible vinyl, pebbled pattern, off-white/tan	No Asbestos Detected	
	Layer 02	fibrous backing, gray	No Asbestos Detected	
	Layer 03	mastic, tan	No Asbestos Detected	
23514.174-0026	Vinyl Floor Tile/Mastic	Building F; room #25, green vinyl floor tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	hard vinyl, green	8% Chrysotile	
	Layer 02	mastic, tan with granular powder, gray	No Asbestos Detected	
23514.174-0027	Built-up Roofing	Building F; room #35, roofing debris		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous tar, black	25% Chrysotile	
23514.174-0028	Caulk	Building F; north exit door, gray caulking		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose hard powder, tan/gray	<1% Chrysotile	
23514.174-0029	Brick & Mortar	Building F; north exit door, brick & mortar		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	granular compact powder, tan	No Asbestos Detected	
	Layer 02	granular compact powder, red	No Asbestos Detected	
23514.174-0030	Caulk	Building F; northwest exterior, window caulking		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard compact powder, tan	2% Chrysotile	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0031	Concrete Coating	Building F; northwest exterior, black concrete coating on brick		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard granular powder, gray	No Asbestos Detected	
23514.174-0032	Built-up Roofing	Building F; southeast central roof, built-up roofing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	fibrous tar, brown/white	No Asbestos Detected	
	Layer 02	fibrous tar, black	No Asbestos Detected	
	Layer 03	fibrous tar, black	No Asbestos Detected	
	Layer 04	fibrous tar, black	No Asbestos Detected	
	Layer 05	fibrous tar, black	No Asbestos Detected	
	Layer 06	tar, black	No Asbestos Detected	
	Layer 07	fibrous tar, black/brown	13% Chrysotile	
	Layer 08	fibrous tar, black/brown	13% Chrysotile	
	Layer 09	fibrous tar, black/brown	13% Chrysotile	
	Layer 10	fibrous tar, black/brown	8% Chrysotile	
23514.174-0033	Built-up Roofing	Building F; central doghouse, built-up roofing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	rocky fibrous tar, black/gray	No Asbestos Detected	
	Layer 02	fibrous tar, black	No Asbestos Detected	
	Layer 03	fibrous tar, black	No Asbestos Detected	
	Layer 04	fibrous tar, black	No Asbestos Detected	
	Layer 05	tar, black	No Asbestos Detected	
	Layer 06	fibrous material, brown with tar, black	35% Chrysotile	
	Layer 07	fibrous material, brown with tar, black	35% Chrysotile	
	Layer 08	fibrous tar, black	No Asbestos Detected	
	Layer 09	tar, black	No Asbestos Detected	
	Layer 10	fibrous material, brown with tar, black	25% Chrysotile	
	Layer 11	fibrous material, brown with tar, black	25% Chrysotile	
	Layer 12	fibrous material, brown with tar, black	25% Chrysotile	
	Layer 13	fibrous material, brown with tar, black	25% Chrysotile	
	Layer 14	fibrous material, brown with tar, black	25% Chrysotile	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0034	Window Glazing Compound	Building F; central doghouse, window glazing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, off-white with hard compact powder, white/off-white	No Asbestos Detected	
23514.174-0035	Window Glazing Compound	Building F; central doghouse, window glazing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact powder, white/off-white	No Asbestos Detected	
23514.174-0036	Built-up Roofing	Building F; northwest roof, built-up roofing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	rubbery material, black/white	No Asbestos Detected	
	Layer 02	rocky fibrous tar, black/gray	No Asbestos Detected	
	Layer 03	fibrous tar, black	No Asbestos Detected	
	Layer 04	fibrous tar, black	No Asbestos Detected	
	Layer 05	fibrous tar, black	No Asbestos Detected	
	Layer 06	fibrous tar, black	No Asbestos Detected	
	Layer 07	fibrous tar, black	No Asbestos Detected	
	Layer 08	wood fibers, tan/brown	No Asbestos Detected	
23514.174-0037	Mastic	Building F; northwest roof exhaust, mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	coating, white with tar, black	No Asbestos Detected	
23514.174-0038	Mastic	Building F; northeast roof stack, mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	soft fibrous tar, black	5% Chrysotile	
23514.174-0039	Concrete Roofing	Building F; basement, black concrete roofing		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose hard particulate black/silver	No Asbestos Detected	
23514.174-0040	Wall and Ceiling Plaster	Building F; room #16, plaster wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	paint, pink/green with hard compact powder, white	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0041	Wall and Ceiling Plaster	Building F; hallway at #11, plaster wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	paint, multicolored with powder, white	No Asbestos Detected	
	Layer 02	hard compact powder, white	No Asbestos Detected	
	Layer 03	granular compact powder, gray	No Asbestos Detected	
23514.174-0042	Gypsum Wallboard/Joint Compound	Building F; room #8, gypsum wallboard with joint compound		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	hard compact powder, white with paint, gray	No Asbestos Detected	
	Layer 02	woven fibers, white	No Asbestos Detected	
	Layer 03	compact chalky material with paper, white	No Asbestos Detected	
23514.174-0043	Wall and Ceiling Plaster	Building F; hallway at #32, plaster wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	fine compact powder, off-white with paint, gray/green/off-white	<1% Chrysotile	
	Layer 02	compact powder, white	No Asbestos Detected	
23514.174-0044	Wall and Ceiling Plaster	Building F; hallway at #34, plaster wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	fine compact powder, off-white with paint, green/off-white/orange	No Asbestos Detected	
	Layer 02	compact powder, white	No Asbestos Detected	
	Layer 03	granular compact powder, gray	No Asbestos Detected	
23514.174-0045	Wall and Ceiling Plaster	Building F; room 23, plaster wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	hard compact powder, white with paint, purple/green/off-white	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0100	Vinyl Floor Tile/Mastic	Building B; basement, gray vinyl floor tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	mastic, tan	No Asbestos Detected	
	Layer 02	hard vinyl, off-white	No Asbestos Detected	
	Layer 03	mastic, clear orange with coating, gray	No Asbestos Detected	
23514.174-0101	Wall and Ceiling Plaster	Building B; basement, wall plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	paint, black/off-white/green	No Asbestos Detected	
	Layer 02	granular compact powder, white	No Asbestos Detected	
	Layer 03	granular compact powder, gray	No Asbestos Detected	
23514.174-0102	Wall and Ceiling Plaster	Building B; basement, ceiling plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	granular compact powder, gray/white	No Asbestos Detected	
	Layer 03	paper, brown	No Asbestos Detected	
23514.174-0103	Window Glazing Compound	Building B; basement, window glazing compound		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	coating, blue/gray with hard compact powder, white/off-white	No Asbestos Detected	
23514.174-0104	Gypsum Wallboard	Building B; basement, ceiling gypsum		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	granular compact powder, gray	No Asbestos Detected	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	
23514.174-0105	Covebase/Mastic	Building B; basement, covebase, tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	rubbery material, off-white/gray/black	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0106	Vinyl Floor Tile/Mastic	Building B; basement, two layers vinyl floor tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, off-white/gray	No Asbestos Detected	
	Layer 02	mastic, tan	No Asbestos Detected	
	Layer 03	vinyl, tan	2% Chrysotile	
	Layer 04	mastic, black	3% Chrysotile	
23514.174-0107	Covebase/Mastic	Building B; basement, covebase, black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	rubbery material, black/gray, with mastic, clear/yellow	No Asbestos Detected	
	Layer 02	mastic, brown, with thin coating, off-white	No Asbestos Detected	
23514.174-0108	Vinyl Floor Tile/Mastic	Building B; basement, two layers vinyl floor tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, gray	No Asbestos Detected	
	Layer 02	mastic, yellow/clear/orange	No Asbestos Detected	
	Layer 03	vinyl, tan	No Asbestos Detected	
	Layer 04	thin mastic with backing, brown/gray/orange	No Asbestos Detected	
23514.174-0109	Mastic	Building B; basement, wallboard mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose particulate, black/tan/off-white	<1% Chrysotile	
23514.174-0110	Mastic	Building B; basement, duct mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous rubbery material, off-white	No Asbestos Detected	
23514.174-0111	Mastic	Building B; basement, duct mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact powder, white/gray	No Asbestos Detected	
23514.174-0112	Sheet Floor Covering	Building B; stair, sheet flooring, leveling compound		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose flexible particulate with paper, blue/gray/off-white/tan	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0113	Wall and Ceiling Plaster	Building B; first floor, wall plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, white/gray, with paint, tan/pink	No Asbestos Detected	
23514.174-0114	Asphalt Impregnated Paper	Building B; first floor, floor vapor barrier		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, black, with loose particulate, multicolored	No Asbestos Detected	
23514.174-0115	Ceramic Tile Grout	Building B; first floor, ceramic tile/grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact powdery material, off-white/gray/pink	No Asbestos Detected	
23514.174-0116	Vinyl Floor Tile/Mastic	Building B; first floor, vinyl floor tile, tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, gray/off-white	No Asbestos Detected	
	Layer 02	mastic, tan/yellow	No Asbestos Detected	
23514.174-0117	Sheet Floor Covering	Building B; first floor, sheet floor covering		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, tan/brown/gray	No Asbestos Detected	
	Layer 02	fibrous backing, gray	50% Chrysotile	
	Layer 03	thin mastic, tan/brown	12% Chrysotile	
	Layer 04	vinyl, tan/gray	No Asbestos Detected	
	Layer 05	woven fibrous backing with coating, brown/tan/gray	No Asbestos Detected	
23514.174-0118	Vinyl Floor Tile/Mastic	Building B; second floor, vinyl floor tile, tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	mastic, tan	No Asbestos Detected	
	Layer 02	vinyl, off-white	<1% Chrysotile	
	Layer 03	mastic, black	2% Chrysotile	
23514.174-0119	Vinyl Floor Tile/Mastic	Building B; second floor, vinyl floor tile, tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	mastic, yellow	No Asbestos Detected	
	Layer 02	hard vinyl, off-white	<1% Chrysotile	
	Layer 03	mastic, black	2% Chrysotile	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0120	Blown-in Insulation	Building B; second floor, blown attic insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, white	No Asbestos Detected	
23514.174-0121	Blown-in Insulation	Building B; second floor, blown attic insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, white	No Asbestos Detected	
23514.174-0122	Blown-in Insulation	Building B; second floor, blown attic insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, white	No Asbestos Detected	
23514.174-0123	Glued-on Ceiling Tiles	Building B; second floor, 12" by 12" fissured glued-on ceiling tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	mastic, brown	No Asbestos Detected	
	Layer 03	compressed fibers, brown	No Asbestos Detected	
23514.174-0124	Vinyl Floor Tile/Mastic	Building B; second floor, vinyl floor tile, tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	mastic, yellow	No Asbestos Detected	
	Layer 02	hard vinyl, off-white	<1% Chrysotile	
	Layer 03	mastic, black	2% Chrysotile	
23514.174-0125	Sheet Floor Covering	Building B; second floor, two layers sheet floor covering		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	vinyl, tan/gray	No Asbestos Detected	
	Layer 02	fibrous backing, gray	55% Chrysotile	
	Layer 03	thin mastic, tan	No Asbestos Detected	
	Layer 04	vinyl, tan/green	No Asbestos Detected	
	Layer 05	woven fibers, tan/brown, with thin mastic, brown	No Asbestos Detected	
	Layer 06	fibrous material, black	No Asbestos Detected	
23514.174-0126	Wall and Ceiling Plaster	Building B; second floor, wall plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 01	textured coating with powder, tan/gray/white	No Asbestos Detected	
	Layer 02	granular compact powder, gray	No Asbestos Detected	

BULK SAMPLE INVENTORY

Code	Material	Location	Results	Lab
23514.174-0127	Mortar	Building B; second floor, chimney mortar		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose granular powder, gray	No Asbestos Detected	
23514.174-0128	Cementitious Roof Shingles	Building B; second floor, roof shingles		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
23514.174-0129	Cementitious Roof Shingles	Building B; second floor, roof shingles		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rocky fibrous tar, black	No Asbestos Detected	
23514.174-0130	Window Glazing Compound	Building B; second floor, window glazing compound		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact powdery material, off-white, with paint, gray	No Asbestos Detected	
23514.174-0131	Asphalt Impregnated Paper	Building B; exterior, siding tar paper		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, black/brown	No Asbestos Detected	
23514.174-0132	Caulk	Building B; exterior, trim caulk		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	soft rubbery material, gray	No Asbestos Detected	
23514.174-0133	Caulk	Building B; exterior, window caulk		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard flexible material, off-white/gray/blue	No Asbestos Detected	

LEAD SAMPLE INVENTORY

Code	Material	Analysis	Location	Lab
PAINT				
LB23514.174-1001	Paint	<11.9 ppm	Building F; northeast, door, metal, tan	R.J. Lee Group
LB23514.174-1002	Paint	<11.7 ppm	Building F; roof, stack	R.J. Lee Group
LB23514.174-1003	Paint	109,000 ppm	Building F; northeast, pillar, metal, tan	R.J. Lee Group
LB23514.174-1004	Paint	50,600 ppm	Building F; southeast, window frame, wood, white	R.J. Lee Group
LB23514.174-1005	Paint	562 ppm	Building F; east, radiator, metal, purple	R.J. Lee Group
LB23514.174-1006	Paint	20.2 ppm	Building B; brick mortar	R.J. Lee Group
LB23514.174-1007	Paint	46,400 ppm	Building B; window frame, wood, gray	R.J. Lee Group
LB23514.174-1008	Paint	2,750 ppm	Building B; siding, wood, blue	R.J. Lee Group

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PLM - Visual Estimate Extended Final Report

Job Number: 210924
Client: PBS Engineering and Environmental
Address: 4412 S Corbett Avenue
Portland, OR 97239
Project Name:
Project No.: 23514.174 Phase 0001
PO Number:
Sub Project:
Reference No.:

Report Number: 210924R01
Report Date: 3/24/2021

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

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
210924 - S1	23514.174-0001 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S2	23514.174-0002 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S3	23514.174-0003 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S4	23514.174-0004 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S5	23514.174-0005 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S6	23514.174-0006 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S7	23514.174-0007 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S8	23514.174-0008 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S9	23514.174-0009 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S10	23514.174-0010 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S11	23514.174-0011 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S12	23514.174-0012 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S13	23514.174-0013 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S14	23514.174-0014 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S15	23514.174-0015 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S16	23514.174-0016 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S17	23514.174-0017 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S18	23514.174-0018 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S19	23514.174-0019 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S20	23514.174-0020 -	PLM - Visual Estimate Extended		3/17/2021
210924 - S21	23514.174-0021 -	PLM - Visual Estimate Extended		3/17/2021

NVLAP TESTING
NVLAP Lab Code: 200741-0

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Job Number: 210924
Client: PBS Engineering and Environmental
Project Name:

Report Number: 210924R01
Report Date: 3/24/2021

210924 - S22	23514.174-0022 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S23	23514.174-0023 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S24	23514.174-0024 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S25	23514.174-0025 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S26	23514.174-0026 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S27	23514.174-0027 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S28	23514.174-0028 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S29	23514.174-0029 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S30	23514.174-0030 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S31	23514.174-0031 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S32	23514.174-0032 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S33	23514.174-0033 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S34	23514.174-0034 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S35	23514.174-0035 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S36	23514.174-0036 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S37	23514.174-0037 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S38	23514.174-0038 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S39	23514.174-0039 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S40	23514.174-0040 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S41	23514.174-0041 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S42	23514.174-0042 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S43	23514.174-0043 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S44	23514.174-0044 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S45	23514.174-0045 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S46	23514.174-0100 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S47	23514.174-0101 -	PLM - Visual Estimate Extended	3/17/2021

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Job Number: 210924
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Project Name:

Report Number: 210924R01
Report Date: 3/24/2021

210924 - S48	23514.174-0102 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S49	23514.174-0103 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S50	23514.174-0104 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S51	23514.174-0105 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S52	23514.174-0106 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S53	23514.174-0107 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S54	23514.174-0108 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S55	23514.174-0109 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S56	23514.174-0110 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S57	23514.174-0111 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S58	23514.174-0112 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S59	23514.174-0113 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S60	23514.174-0114 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S61	23514.174-0115 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S62	23514.174-0116 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S63	23514.174-0117 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S64	23514.174-0118 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S65	23514.174-0119 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S66	23514.174-0120 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S67	23514.174-0121 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S68	23514.174-0122 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S69	23514.174-0123 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S70	23514.174-0124 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S71	23514.174-0125 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S72	23514.174-0126 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S73	23514.174-0127 -	PLM - Visual Estimate Extended	3/17/2021

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Job Number: 210924
Client: PBS Engineering and Environmental
Project Name:

Report Number: 210924R01
Report Date: 3/24/2021

210924 - S74	23514.174-0128 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S75	23514.174-0129 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S76	23514.174-0130 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S77	23514.174-0131 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S78	23514.174-0132 -	PLM - Visual Estimate Extended	3/17/2021
210924 - S79	23514.174-0133 -	PLM - Visual Estimate Extended	3/17/2021

PLM - Visual Estimate Extended

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

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

Disclaimer

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

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

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

The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: >0-3% error,
5% asbestos: 1-9% error,
10% asbestos: 5-15% error,
20% asbestos: 10-30% error.

Sincerely,

x _____

Ryan Talaski-Brown
PLM Technical Manager

NVLAP TESTING
NVLAP Lab Code: 200741-0

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BULK SAMPLE ASBESTOS ANALYSIS

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

Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0001** **Sample ID:** S1 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, brown, with wood fibers and powder, tan/gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	25 %	-	-	-	75 %

Client Sample ID: **23514.174-0002** **Sample ID:** S2 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular compact powder, gray/white, with coating, multicolored	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0003** **Sample ID:** S3 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic material, black, with wood, tan	100 %	4 %	-	-	**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	96 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
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Client: PBS Engineering and Environmental
4412 S Corbett Avenue
Portland, OR 97239

Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0004** **Sample ID:** S4 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, gray	65 %	-	-	-			**NAD**
Layer 02							
mastic material, clear/off-white/tan	15 %	-	-	-			**NAD**
Layer 03							
granular compact powder, white	20 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0005** **Sample ID:** S5 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose particulate, brown/tan	100 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	97 %

Client Sample ID: **23514.174-0006** **Sample ID:** S6 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl, red	90 %	2 %	-	-			**2 %**
Layer 02							
mastic, black	10 %	Trace	-	-			**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	2 %	-	-	-	-	96 %
Layer 02	-	3 %	-	Trace	-	-	97 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0007** **Sample ID:** S7 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
loose particulate, brown/red/off-white	18 %	-	-	-			**NAD**
Layer 02							
rubbery material, tan	82 %	-	-	-			**NAD**

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

Client Sample ID: **23514.174-0008** **Sample ID:** S8 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose particulate, brown/red/white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: **23514.174-0009** **Sample ID:** S9 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose fibrous material, black/gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	100 %	-	-	-	0 %

Client Sample ID: **23514.174-0010** **Sample ID:** S10 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose fibrous material, black/gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	100 %	-	-	-	0 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0011** **Sample ID:** S11 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose fibrous material, black/gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	100 %	-	-	-	0 %

Client Sample ID: **23514.174-0012** **Sample ID:** S12 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
fibrous material, tan	45 %	-	-	-			**NAD**
Layer 02							
compact powdery material, brown	5 %	-	-	-			**NAD**
Layer 03							
fibrous material, black	35 %	-	-	-			**NAD**
Layer 04							
loose fibrous material, yellow	15 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	95 %	-	-	-	-	5 %
Layer 02	Trace	5 %	-	-	-	-	95 %
Layer 03	Trace	60 %	-	-	-	-	40 %
Layer 04	100 %	-	-	-	-	-	0 %

Client Sample ID: **23514.174-0013** **Sample ID:** S13 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
woven fibers, brown/black	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	100 %	-	-	-	-	0 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0014** **Sample ID:** S14 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose granular material, gray/white/tan	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	3 %	-	-	-	-	97 %

Client Sample ID: **23514.174-0015** **Sample ID:** S15 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl, tan/gray	80 %	-	-	-			**NAD**
Layer 02							
mastic, black	20 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

Client Sample ID: **23514.174-0016** **Sample ID:** S16 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard compact powder, tan/gray/off-white	94 %	-	-	-			**NAD**
Layer 02							
granular compact powder, white	6 %	-	-	-			**NAD**

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

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0017** **Sample ID:** S17 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose particulate, black	100 %	Trace	-	-			**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	3 %	-	-	-	-	97 %

Client Sample ID: **23514.174-0018** **Sample ID:** S18 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose granular powder, gray/white/tan	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	2 %	-	-	-	-	98 %

Client Sample ID: **23514.174-0019** **Sample ID:** S19 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
coating, off-white	20 %	-	-	-			**NAD**
Layer 02							
compressed fibrous material, off-white	80 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	60 %	-	-	-	35 %

Client Sample ID: **23514.174-0020** **Sample ID:** S20 **Date Analyzed:** 03/22/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose particulate, tan	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	30 %	-	-	-	-	70 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0021** **Sample ID:** S21 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
hard vinyl, off-white	25 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	3 %	-	-	-	**NAD**
Layer 03					
hard vinyl, off-white	50 %	-	-	-	**NAD**
Layer 04					
mastic, orange/black	22 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0022** **Sample ID:** S22 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Homogeneous					
hard compact powder, white/gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0023** **Sample ID:** S23 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
granular compact powder, gray	15 %	-	-	-	**NAD**
Layer 02					
mastic, brown	70 %	-	-	-	**NAD**
Layer 03					
compressed fibers, brown	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: **23514.174-0024** **Sample ID:** S24 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
mastic, white	15 %	-	-	-	**NAD**
Layer 02					
mastic, black	10 %	Trace	-	-	**< 1 %**
Layer 03					
compressed fibers, brown	75 %	-	-	-	**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: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0025** **Sample ID:** S25 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
flexible vinyl, pebbled pattern, off-white/tan	75 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray	18 %	-	-	-	**NAD**
Layer 03					
mastic, tan	7 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	65 %	-	-	-	-	35 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0026** **Sample ID:** S26 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard vinyl, green	92 %	8 %	-	-	**8 %**
Layer 02					
mastic, tan with granular powder, gray	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	92 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0027** **Sample ID:** S27 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fibrous tar, black	100 %	25 %	-	-	**25 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	35 %	-	-	-	-	40 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0028** **Sample ID:** S28 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose hard powder, tan/gray	100 %	Trace	-	-			**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0029** **Sample ID:** S29 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
granular compact powder, tan	50 %	-	-	-			**NAD**
Layer 02							
granular compact powder, red	50 %	-	-	-			**NAD**

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

Client Sample ID: **23514.174-0030** **Sample ID:** S30 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
hard compact powder, tan	100 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	Talc 5 %	-	93 %

Client Sample ID: **23514.174-0031** **Sample ID:** S31 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
hard granular powder, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

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Report Number: 210924R01
Report Date: 03/24/2021

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

P.O. No: n/a

Client Sample ID: **23514.174-0032** **Sample ID:** S32 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fibrous tar, brown/white	6 %	-	-	-			**NAD**
Layer 02							
fibrous tar, black	12 %	-	-	-			**NAD**
Layer 03							
fibrous tar, black	12 %	-	-	-			**NAD**
Layer 04							
fibrous tar, black	12 %	-	-	-			**NAD**
Layer 05							
fibrous tar, black	12 %	-	-	-			**NAD**
Layer 06							
tar, black	4 %	-	-	-			**NAD**
Layer 07							
fibrous tar, black/brown	11 %	13 %	-	-			**13 %**
Layer 08							
fibrous tar, black/brown	11 %	13 %	-	-			**13 %**
Layer 09							
fibrous tar, black/brown	11 %	13 %	-	-			**13 %**
Layer 10							
fibrous tar, black/brown	9 %	8 %	-	-			**8 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	20 %	Trace	-	-	-	-	80 %
Layer 02	10 %	-	-	-	-	-	90 %
Layer 03	10 %	-	-	-	-	-	90 %
Layer 04	10 %	-	-	-	-	-	90 %
Layer 05	9 %	-	-	-	-	-	91 %
Layer 06	-	Trace	-	-	-	-	100 %
Layer 07	-	12 %	-	-	-	-	75 %
Layer 08	-	12 %	-	-	-	-	75 %
Layer 09	-	12 %	-	-	-	-	75 %
Layer 10	-	12 %	-	-	-	-	80 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0033** **Sample ID:** S33 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
rocky fibrous tar, black/gray	8 %	-	-	-	**NAD**
Layer 02					
fibrous tar, black	8 %	-	-	-	**NAD**
Layer 03					
fibrous tar, black	8 %	-	-	-	**NAD**
Layer 04					
fibrous tar, black	8 %	-	-	-	**NAD**
Layer 05					
tar, black	8 %	-	-	-	**NAD**
Layer 06					
fibrous material, brown with tar, black	11 %	35 %	-	-	**35 %**
Layer 07					
fibrous material, brown with tar, black	11 %	35 %	-	-	**35 %**
Layer 08					
fibrous tar, black	5 %	-	-	-	**NAD**
Layer 09					
tar, black	5 %	-	-	-	**NAD**
Layer 10					
fibrous material, brown with tar, black	8 %	25 %	-	-	**25 %**
Layer 11					
fibrous material, brown with tar, black	4 %	25 %	-	-	**25 %**
Layer 12					
fibrous material, brown with tar, black	4 %	25 %	-	-	**25 %**
Layer 13					
fibrous material, brown with tar, black	4 %	25 %	-	-	**25 %**
Layer 14					
fibrous material, brown with tar, black	8 %	25 %	-	-	**25 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	8 %	-	-	-	-	-	92 %
Layer 02	9 %	-	-	-	-	-	91 %
Layer 03	9 %	-	-	-	-	-	91 %
Layer 04	9 %	-	-	-	-	-	91 %

NVLAP TESTING
NVLAP Lab Code: 200741-0

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Layer 05	1 %	-	-	-	-	-	99 %
Layer 06	-	35 %	-	-	-	-	30 %
Layer 07	-	35 %	-	-	-	-	30 %
Layer 08	-	35 %	-	-	-	-	65 %
Layer 09	-	2 %	-	-	-	-	98 %
Layer 10	-	40 %	-	-	-	-	35 %
Layer 11	-	40 %	-	-	-	-	35 %
Layer 12	-	40 %	-	-	-	-	35 %
Layer 13	-	40 %	-	-	-	-	35 %
Layer 14	-	40 %	-	-	-	-	35 %

Client Sample ID: **23514.174-0034** **Sample ID:** S34 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
paint, off-white with hard compact powder, white/off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0035** **Sample ID:** S35 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compact powder, white/off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	Wollastonite 1 %	-	99 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0036** **Sample ID:** S36 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
rubbery material, black/white	5 %	-	-	-	**NAD**
Layer 02					
rocky fibrous tar, black/gray	7 %	-	-	-	**NAD**
Layer 03					
fibrous tar, black	7 %	-	-	-	**NAD**
Layer 04					
fibrous tar, black	7 %	-	-	-	**NAD**
Layer 05					
fibrous tar, black	7 %	-	-	-	**NAD**
Layer 06					
fibrous tar, black	6 %	-	-	-	**NAD**
Layer 07					
fibrous tar, black	6 %	-	-	-	**NAD**
Layer 08					
wood fibers, tan/brown	55 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	4 %	-	-	-	-	96 %
Layer 02	11 %	1 %	-	-	-	-	88 %
Layer 03	7 %	2 %	-	-	-	-	91 %
Layer 04	7 %	2 %	-	-	-	-	91 %
Layer 05	6 %	2 %	-	-	-	-	92 %
Layer 06	8 %	2 %	-	-	-	-	90 %
Layer 07	6 %	8 %	-	-	-	-	86 %
Layer 08	-	100 %	-	-	-	-	0 %

Client Sample ID: **23514.174-0037** **Sample ID:** S37 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Homogeneous					
coating, white with tar, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	5 %	-	-	-	-	95 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0038** **Sample ID:** S38 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
soft fibrous tar, black	100 %	5 %	-	-			**5 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	1 %	-	-	-	-	94 %

Client Sample ID: **23514.174-0039** **Sample ID:** S39 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose hard particulate black/silver	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	3 %	-	-	-	-	97 %

Client Sample ID: **23514.174-0040** **Sample ID:** S40 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
paint, pink/green with hard compact powder, white	25 %	-	-	-			**NAD**
Layer 02							
granular compact powder, gray	75 %	-	-	-			**NAD**

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

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0041** **Sample ID:** S41 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
paint, multicolored with powder, white	20 %	-	-	-			**NAD**
Layer 02							
hard compact powder, white	20 %	-	-	-			**NAD**
Layer 03							
granular compact powder, gray	60 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0042** **Sample ID:** S42 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard compact powder, white with paint, gray	8 %	-	-	-			**NAD**
Layer 02							
woven fibers, white	2 %	-	-	-			**NAD**
Layer 03							
compact chalky material with paper, white	90 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	100 %	-	-	-	-	-	0 %
Layer 03	-	2 %	-	-	-	-	98 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0043** **Sample ID:** S43 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fine compact powder, off-white with paint, gray/green/off-white	25 %	Trace	-	-			**< 1 %**
Layer 02							
compact powder, white	75 %	-	-	-			**NAD**

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

Client Sample ID: **23514.174-0044** **Sample ID:** S44 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fine compact powder, off-white with paint, green/off-white/orange	10 %	-	-	-			**NAD**
Layer 02							
compact powder, white	25 %	-	-	-			**NAD**
Layer 03							
granular compact powder, gray	65 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	Trace	-	-	-	-	100 %

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Report Number: 210924R01
Report Date: 03/24/2021
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Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0045** **Sample ID:** S45 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
hard compact powder, white with paint, purple/green/off-white	15 %	-	-	-			**NAD**
Layer 02							
granular compact powder, gray	85 %	-	-	-			**NAD**

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

Client Sample ID: **23514.174-0100** **Sample ID:** S46 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
mastic, tan	5 %	-	-	-			**NAD**
Layer 02							
hard vinyl, off-white	90 %	-	-	-			**NAD**
Layer 03							
mastic, clear orange with coating, gray	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	Trace	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0101** **Sample ID:** S47 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Mia Gaines

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
paint, black/off-white/green	20 %	-	-	-			**NAD**
Layer 02							
granular compact powder, white	20 %	-	-	-			**NAD**
Layer 03							
granular compact powder, gray	60 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0102** **Sample ID:** S48 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
coating, white	4 %	-	-	-			**NAD**
Layer 02							
granular compact powder, gray/white	88 %	-	-	-			**NAD**
Layer 03							
paper, brown	8 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	3 %	-	-	-	-	97 %
Layer 02	-	1 %	-	-	-	-	99 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: **23514.174-0103** **Sample ID:** S49 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
coating, blue/gray with hard compact powder, white/off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

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Report Number: 210924R01
Report Date: 03/24/2021

P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0104** **Sample ID:** S50 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Jeffrey Pratt

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
granular compact powder, gray	7 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	93 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	Trace	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	95 %

Client Sample ID: **23514.174-0105** **Sample ID:** S51 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, off-white/gray/black	92 %	-	-	-			**NAD**
Layer 02							
mastic, tan	8 %	-	-	-			**NAD**

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

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Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0106** **Sample ID:** S52 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl, off-white/gray	30 %	-	-	-			**NAD**
Layer 02							
mastic, tan	4 %	-	-	-			**NAD**
Layer 03							
vinyl, tan	50 %	2 %	-	-			**2 %**
Layer 04							
mastic, black	16 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	98 %
Layer 04	-	Trace	-	-	-	-	97 %

Client Sample ID: **23514.174-0107** **Sample ID:** S53 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, black/gray, with mastic, clear/yellow	94 %	-	-	-			**NAD**
Layer 02							
mastic, brown, with thin coating, off-white	6 %	-	-	-			**NAD**

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

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0108** **Sample ID:** S54 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl, gray	44 %	-	-	-			**NAD**
Layer 02							
mastic, yellow/clear/orange	6 %	-	-	-			**NAD**
Layer 03							
vinyl, tan	44 %	-	-	-			**NAD**
Layer 04							
thin mastic with backing, brown/gray/orange	6 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	3 %	-	-	-	-	97 %

Client Sample ID: **23514.174-0109** **Sample ID:** S55 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose particulate, black/tan/off-white	100 %	Trace	-	-			**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0110** **Sample ID:** S56 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
fibrous rubbery material, off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	5 %	5 %	-	-	-	-	90 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0111** **Sample ID:** S57 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compact powder, white/gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0112** **Sample ID:** S58 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose flexible particulate with paper, blue/gray/off-white/tan	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	50 %	-	-	-	-	50 %

Client Sample ID: **23514.174-0113** **Sample ID:** S59 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
granular compact powder, white/gray, with paint, tan/pink	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0114** **Sample ID:** S60 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fibrous material, black, with loose particulate, multicolored	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	75 %	-	-	-	-	25 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0115** **Sample ID:** S61 **Date Analyzed:** 03/23/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compact powdery material, off-white/gray/pink	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0116** **Sample ID:** S62 **Date Analyzed:** 03/23/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl, gray/off-white	85 %	-	-	-			**NAD**
Layer 02							
mastic, tan/yellow	15 %	-	-	-			**NAD**

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

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0117** **Sample ID:** S63 **Date Analyzed:** 03/23/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
vinyl, tan/brown/gray	28 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray	28 %	50 %	-	-	**50 %**
Layer 03					
thin mastic, tan/brown	8 %	12 %	-	-	**12 %**
Layer 04					
vinyl, tan/gray	18 %	-	-	-	**NAD**
Layer 05					
woven fibrous backing with coating, brown/tan/gray	18 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	5 %	-	-	-	-	95 %
Layer 02	-	5 %	-	-	-	-	45 %
Layer 03	-	Trace	-	-	-	-	88 %
Layer 04	-	15 %	-	-	-	-	85 %
Layer 05	-	75 %	-	-	-	-	25 %

Comments: Chrysotile content in Layer 03 could be contamination from Layer 02; due to the thickness of Layer 03, determination of contamination is difficult.

Client Sample ID: **23514.174-0118** **Sample ID:** S64 **Date Analyzed:** 03/23/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
mastic, tan	15 %	-	-	-	**NAD**
Layer 02					
vinyl, off-white	70 %	Trace	-	-	**< 1 %**
Layer 03					
mastic, black	15 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	98 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0119** **Sample ID:** S65 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
mastic, yellow	10 %	-	-	-			**NAD**
Layer 02							
hard vinyl, off-white	72 %	Trace	-	-			**< 1 %**
Layer 03							
mastic, black	18 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	98 %

Comments: A gravimetric preparation and point-count is recommended for layer 02.

Client Sample ID: **23514.174-0120** **Sample ID:** S66 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose fibrous material, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	100 %	-	-	-	-	-	0 %

Client Sample ID: **23514.174-0121** **Sample ID:** S67 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose fibrous material, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	100 %	-	-	-	-	-	0 %

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0122** **Sample ID:** S68 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose fibrous material, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
	-	-	-	-		-	-	100 %

Client Sample ID: **23514.174-0123** **Sample ID:** S69 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
coating, white	20 %	-	-	-			**NAD**
Layer 02							
mastic, brown	65 %	-	-	-			**NAD**
Layer 03							
compressed fibers, brown	15 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-	Wollastonite	5 %	-	95 %
Layer 03	-	65 %	-	-		-	-	25 %
							Perlite	10 %

Client Sample ID: **23514.174-0124** **Sample ID:** S70 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Ryan Talaski-Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, yellow	10 %	-	-	-			**NAD**
Layer 02							
hard vinyl, off-white	72 %	Trace	-	-			**< 1 %**
Layer 03							
mastic, black	18 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Layer 03	-	-	-	-		-	-	98 %

Comments: A gravimetric preparation and point-count is recommended for layer 02.

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Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0125** **Sample ID:** S71 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
vinyl, tan/gray	23 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray	23 %	55 %	-	-	**55 %**
Layer 03					
thin mastic, tan	8 %	-	-	-	**NAD**
Layer 04					
vinyl, tan/green	20 %	-	-	-	**NAD**
Layer 05					
woven fibers, tan/brown, with thin mastic, brown	20 %	-	-	-	**NAD**
Layer 06					
fibrous material, black	6 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	20 %	-	-	-	-	25 %
Layer 03	-	18 %	-	-	-	-	82 %
Layer 04	-	40 %	-	-	-	-	60 %
Layer 05	-	50 %	-	-	-	-	50 %
Layer 06	-	70 %	-	-	-	-	30 %

Client Sample ID: **23514.174-0126** **Sample ID:** S72 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	**Percent Asbestos:**
Layer 01					
textured coating with powder, tan/gray/white	20 %	-	-	-	**NAD**
Layer 02					
granular compact powder, gray	80 %	-	-	-	**NAD**

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

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Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0127** **Sample ID:** S73 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

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
	-	Trace	-	-	-	100 %

Client Sample ID: **23514.174-0128** **Sample ID:** S74 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rocky fibrous tar, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	15 %	3 %	-	-	-	82 %

Client Sample ID: **23514.174-0129** **Sample ID:** S75 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rocky fibrous tar, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	15 %	Trace	-	-	-	85 %

Client Sample ID: **23514.174-0130** **Sample ID:** S76 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact powdery material, off-white, with paint, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

LabCor Portland Inc
Lab/Cor Portland, Inc.
4321 South Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

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

Report Number: 210924R01
Report Date: 03/24/2021
P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

Client Sample ID: **23514.174-0131** **Sample ID:** S77 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fibrous material, black/brown	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	80 %	-	-	-	-	20 %

Client Sample ID: **23514.174-0132** **Sample ID:** S78 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
soft rubbery material, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: **23514.174-0133** **Sample ID:** S79 **Date Analyzed:** 03/24/2021
Client Sample Description: **Analyst:** Tim Cammann

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
hard flexible material, off-white/gray/blue	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	2 %	-	-	-	-	98 %

Lab/Cor Portland, Inc.
4321 South Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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

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

Report Number: 210924R01
Report Date: 03/24/2021

P.O. No: n/a

Job Number: **210924**
Project Name:
Project Number: 23514.174 Phase 0001
Project Notes:

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

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

Reviewed by:

x

Ryan Talaski-Brown
PLM Technical Manager

NVLAP TESTING
NVLAP Lab Code: 200741-0

210924 1/4

PBS

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23514.174 Phase 0001

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

SENDER

Date Sent: March 17, 2021

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

Alex Johnson
Name

[signature] 3/17/21 1300
Authorized Signature **Date** **Time**

RECEIVER

Date Received: 3/17/21

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

MARK DONAHUE
Name

[signature] 3/17/21 12:50
Authorized Signature **Date** **Time**

Sender's ID No.	Brief Description	Receiver's ID No.
23514.174-0001		
23514.174-0002		
23514.174-0003		
23514.174-0004		
23514.174-0005		
23514.174-0006		
23514.174-0007		
23514.174-0008		
23514.174-0009		
23514.174-0010		
23514.174-0011		
23514.174-0012		
23514.174-0013		
23514.174-0014		

210924 2/4

PBS

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23514.174-0015		
23514.174-0016		
23514.174-0017		
23514.174-0018		
23514.174-0019		
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23514.174-0021		
23514.174-0022		
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23514.174-0038		
23514.174-0039		

PBS

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23514.174-0040		
23514.174-0041		
23514.174-0042		
23514.174-0043		
23514.174-0044		
23514.174-0045		
23514.174-0100		
23514.174-0101		
23514.174-0102		
23514.174-0103		
23514.174-0104		
23514.174-0105		
23514.174-0106		
23514.174-0107		
23514.174-0108		
23514.174-0109		
23514.174-0110		
23514.174-0111		
23514.174-0112		
23514.174-0113		
23514.174-0114		
23514.174-0115		
23514.174-0116		
23514.174-0117		
23514.174-0118		

210524 1/4

PBS

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23514.174-0119	_____	_____
23514.174-0120	_____	_____
23514.174-0121	_____	_____
23514.174-0122	_____	_____
23514.174-0123	_____	_____
23514.174-0124	_____	_____
23514.174-0125	_____	_____
23514.174-0126	_____	_____
23514.174-0127	_____	_____
23514.174-0128	_____	_____
23514.174-0129	_____	_____
23514.174-0130	_____	_____
23514.174-0131	_____	_____
23514.174-0132	_____	_____
23514.174-0133	_____	_____

Please analyze the enclosed 79 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **5 Day**

SPECIAL INSTRUCTIONS: SM

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

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.: PA180320210004
Samples Received: March 18, 2021
Report Date: March 24, 2021
Client Project: 23514.174 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 6010C-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB23514.174-1001	PA180320210004-001	NP	Lead	< 0.00119	< 11.9	0.00119	11.9	3/18/2021	A
LB23514.174-1002	PA180320210004-002	NP	Lead	< 0.00117	< 11.7	0.00117	11.7	3/18/2021	A
LB23514.174-1003	PA180320210004-003	NP	Lead	10.9	109000	0.231	2310	3/19/2021	A
LB23514.174-1004	PA180320210004-004	NP	Lead	5.06	50600	0.234	2340	3/19/2021	A
LB23514.174-1005	PA180320210004-005	NP	Lead	0.0562	562	0.00115	11.5	3/18/2021	A
LB23514.174-1006	PA180320210004-006	NP	Lead	0.00202	20.2	0.00119	11.9	3/18/2021	A
LB23514.174-1007	PA180320210004-007	NP	Lead	4.64	46400	0.249	2490	3/19/2021	A
LB23514.174-1008	PA180320210004-008	NP	Lead	0.275	2750	0.0119	119	3/19/2021	A

Comments:

Report Qualifiers (Q):

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

A *: AIHA-LAP, LLC Accredited (Lab ID 100364)*
— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of 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 RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.
This laboratory operates in accord with ISO 17025:2017 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to http://www.rjlg.com/about-us/accreditations/ for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

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

Erin Repine
Scientist

PA18032021 0004

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23514.174 Phase 0001

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

SENDER

Date Sent: March 17, 2021

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

Alex Johnson
Name

Authorized Signature 3/17/21 **Date**

RECEIVER

Date Received: 03/18/21

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

Tony
Name

Authorized Signature 03/18/21 **Date** 11:00

Sender's ID No.	Brief Description	Receiver's ID No.
LB23514.174-1001		
LB23514.174-1002		
LB23514.174-1003		
LB23514.174-1004		
LB23514.174-1005		
LB23514.174-1006		
LB23514.174-1007		
LB23514.174-1008		

ANALYSIS REQUESTED:

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

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

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

5 Day

SPECIAL INSTRUCTIONS:

SMC

THIS IS TO CERTIFY THAT

JOEL MCCARTHY

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

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

Course Date: 02/11/2020

Course Location: Portland, OR

Certificate: IMR-20-2771B

CCB #SRA0615 4-Hr Training

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

Expiration Date: 02/11/2021

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

Andy Fridley, Instructor