

Pre-Renovation Limited Hazardous Building Materials Survey Report

Washington Center for Deaf and Hard of Hearing Youth (CDHY)
Northrop Hall
611 Grand Boulevard
Vancouver, Washington 98661

Prepared for:

Washington State Department of Enterprise Services (DES)

PO Box 41476

Olympia, Washington 98504

General Information	1.1
Inspection Summary	1.2
Survey Drawings	HS1 - HS3
Hazardous Material Sample Inventories	3.1
Laboratory Data	Not Numbered
AHERA Certificate	Not Numbered

September 2022

PBS Project 25570.006, Phase 0001



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BACKGROUND

Between August and September 2022, PBS Engineering and Environmental Inc. (PBS) performed a limited pre-renovation hazardous building materials survey of Northrop Hall at the Washington Center for Deaf and Hard of Hearing Youth (CDHY) campus, located at 611 Grand Boulevard in Vancouver, Washington. The survey was requested by Washington State Department of Enterprise Services (DES) in anticipation of planned renovation activities.

The purpose of the survey was to identify regulated hazardous building materials prior to impact via renovation activities and satisfy the Washington State Department of Labor and Industries' requirement that a "good faith inspection" for asbestos-containing materials (ACM) be conducted prior to renovation and demolition activities. The survey is intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as requirements by the Washington Administrative Code (WAC) to perform an asbestos inspection prior to renovation or demolition activities under WAC 296-62-07721 and WAC 296-155-176.

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

In addition, representative light fixtures were inspected for PCB-containing ballasts and mercury-containing vapor light tubes. Finally, hydrochlorofluorocarbon- (HCFC) or chlorofluorocarbon (CFC)-containing refrigeration equipment were quantified. Our findings are summarized below.

BUILDING DESCRIPTIONS

Northrop Hall was constructed in 1952 and consists of a single, slab-on-grade, metal framed masonry building. Interior wall finishes include gypsum wallboard, ceramic tiles with grout and plaster. Floors are finished with vinyl floor tile, carpet, magnesite, wood, and finished concrete. Ceilings are comprised of 12-inch splined ceiling tiles, gypsum wallboard and plaster. Window assemblies are metal framed with single glass panes. A roofing replacement occurred in 2018 and a new Thermoplastic Polyolefin (TPO) singly-ply membrane appears to have been installed. It is unknown if the old roof was removed or remains in place under the TPO roof.

ASBESTOS SUMMARY

Northrop Hall was inspected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector to determine the presence, location, and approximate quantity of ACM. 103 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:

- Asbestos-containing pipe insulation with associated asbestos-containing mudded hard fittings were observed in mechanical rooms and are assumed to be concealed within interstitial wall, floor, and ceiling spaces. There is approximately 4,000 linear feet of this material throughout the building
- Asbestos-containing tank insulation was found on two boiler tanks in the basement mechanical room on the north side of the building. Approximately 300 square feet of this material was identified.
- Asbestos-containing cement asbestos board (CAB) panels are concealed in radiator units throughout the building. There is approximately 1,700 square feet of CAB paneling.

- Asbestos-containing 9" and 12" green vinyl floor tile with associated asbestos-containing black mastic on concrete throughout the main floor. This material was observed in exposed and concealed (under carpet) conditions. Roughly 8,000 square feet of this material was identified on the main floor.
- Asbestos-containing perimeter window caulking and glazing (located on interior and exterior of the windows) was observed on perimeter aluminum window walls throughout the classrooms. There are approximately 24 of these windows measuring 25'x8'.
- Asbestos-containing brown perimeter window caulking was observed on interior windows at the main office. There are approximately 3 of these windows measuring 7'x5'.
- Asbestos-containing frame sealant was identified on aluminum storefronts on the exterior of the building. There are approximately 2 storefronts measuring 20'x12'.
- Asbestos-containing black chalkboards were discovered in various classrooms. These black chalkboards may be concealed behind newer corkboards and white boards throughout the school. Approximately 20 of these black chalkboards, measuring 8'x4', exist throughout the building.
- Less than 1% (<1%) asbestos-containing covebase mastic was found sporadically located throughout the building. This material was observed in a concealed condition under newer covebase systems.

Please refer to the asbestos materials inventory, asbestos bulk sample inventory, laboratory reports, and survey drawings for specific sample test results, descriptions, and locations.

Asbestos Regulations

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

Materials containing <1% asbestos are not regulated by the Environmental Protection Agency (EPA), the Washington State Department of Ecology (Ecology), or the Southwest Clean Air Agency (SWCAA) and may be disposed of as general construction debris. However, workers impacting materials with <1% asbestos must adhere to OSHA and the Washington State Department of Labor and Industries (L&I) regulatory requirements. These requirements are outlined in WAC 296-62-17712 (2), 296-62-07722 (5), and 296-62-0728. These regulations outline training requirements, personal protective equipment, proper work practices and negative exposure assessment completion.

OSHA provides federal regulations governing asbestos (29 CFR Part 1926.1101). These regulations have made significant changes in work procedures and how ACM are removed. OSHA believes that the single biggest concern is for workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to: 40 CFR Part 61, NESHAPS; 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and SWCAA.

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

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

Material	Location
Wall and Ceiling Plaster	Throughout survey scope of work area
9"x9" Red Vinyl Floor Tile with Associated Mastic	Classrooms throughout survey scope of work area
Various Colors and Sizes of Covebase	Classrooms throughout survey scope of work area
Black Sink Undercoating	First floor; teachers' lounge room 108 on stainless
Red Brick with Gray Mortar	Exterior of building
Gypsum and Joint Compound	Restroom ceilings
Magnesite Flooring	Throughout hallways of the survey scope of work area
Carpet Mastics (Various Colors)	Throughout survey scope of work area
Brown Corkboard Mastic	Throughout survey scope of work area
12"x12" Splined Ceiling Tiles	Throughout survey scope of work area
Ceramic Tile and Grout (Blue and Aqua)	Throughout hallways and restrooms of the survey scope of work area
Yellow Laminate Countertop Mastic	Casework and shelving throughout the building
Brown Vinyl Stair Tread and Mastic	First floor; south end of main hallway on magnesite flooring
Gray HVAC Seam Sealant	South mechanical room, around HVAC fan unit seams
White Mechanical Isolation Cloth	At HVAC ducting connections
Off-White Perimeter Window Frame Caulk	Second floor; elevator lobby, around interior perimeter of window frame
Off-White Pipe Vent Caulk	Second floor; south lower roof, around pipe vent
Gray Window Caulk	Second floor; south lower roof, exterior perimeter of vinyl window frame
Off-White Window Caulk	Second floor; south lower roof, exterior vinyl window frame and flashing
Gray Door Frame Caulk	First floor; north exterior door frame
Gray CMU Block	Northwest side of building; exterior mech room

LEAD SUMMARY

Paint was sampled for lead content for the sake of hazard communication. Six paint chip samples were collected from representative building components from painted interior and exterior building components. Samples were submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA). Lead analysis results revealed that lead is present in all six submitted samples, with concentrations ranging from 0.779 to 33,300 parts per million (ppm).

See the lead sample inventory section of this report for representative building components and corresponding results. Additionally, refer to the hazardous materials survey drawings for sample locations and additional information. The paint testing conducted for this survey was limited in scope. The report information and testing

results are not to be considered an exhaustive investigation of lead-containing paint on all building surfaces. All painted surfaces not identified in this report should be presumed to contain lead.

Lead-Containing Paint Regulations

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009 percent or 90 ppm or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5% 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.

Washington L&I regulations for Lead in Construction (WAC 296-62-155) govern the impact of painted surfaces with detectable concentrations of lead. The WAC standard outlines worker exposure limits, personal protection requirements, and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA's Lead in Construction Standard applies to all work where employees may be exposed to lead in construction, alteration, or repair activities. This includes demolition of structures where lead-containing materials are present.

Disposal

Under WAC 173-303 Dangerous Waste Regulations, waste characterization should be performed via Toxicity Characteristic Leaching Procedure in accordance with EPA Method 1311 for waste streams suspected of containing lead prior to disposal. Refer to the WAC Dangerous Waste Regulations for proper disposal of lead-based painted demolition waste.

POLYCHLORINATED BIPHENYLS (PCBS) SUMMARY

PBS inspected representative light fixture ballasts throughout the buildings and discovered a variety of ballasts including newer electronic ballasts and older magnetic ballasts. Electronic ballasts do not have potential PCB-containing oil, however, magnetic ballasts may. Because of the limited nature of the light fixture ballast investigation, PBS recommends that all light fixture ballasts be inspected prior to demolition activities. Magnetic ballasts, regardless of "No PCBs" labeling, should be presumed to contain PCBs and be properly removed, stored, transported, and disposed of in accordance with applicable regulations. Approximately 50 PCB-containing light fixture ballasts are anticipated to be present throughout the buildings. If there is visual evidence that a ballast is PCB-containing or there is suspicion of a PCB leak or spill, a qualified contractor should handle and dispose of the light ballast and contaminated fixtures.

PCB Regulations

In 1976, Congress banned PCB manufacturing in the United States due to their toxic effects. In July 1979, EPA phased out the processing and use of PCBs, except in totally enclosed equipment. Some sealants installed before the 1976 ban or after 1979 may contain PCBs. EPA prohibits the use or continued use of bulk products that contain 50 ppm or greater PCBs in accordance with 40 Code of Federal Regulations (CFR), Part 761. In addition, EPA requires disposal of these materials in accordance with 40 CFR, section 761.62 - Disposal of PCB Bulk Product Waste.

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

MERCURY SUMMARY

Fluorescent light tubes and High Intensity Discharge (HID) lights are suspected of containing mercury vapors. Approximately 800 fluorescent light tubes were inventoried in the building. Fluorescent light tubes should be carefully handled, packaged, and recycled in the appropriate manner.

Mercury Regulations

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

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

Hydrochloro-/Chlorofluorocarbon-Containing Equipment

PBS observed refrigeration appliances, window air conditioning units in all classrooms in the building. This equipment potentially contains refrigerant (Freon) that may contain HCFC or CFC which contributes to ozone depletion and is regulated by Ecology. PBS recommends that all working refrigeration and cooling devices be recycled whole or refrigerants are evacuated and recovered prior to demolition and disposal. Those devices that will be demolished can be sent to a recycling facility where the refrigerant, oils, and metals can be recovered and recycled or disposed of appropriately.

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.

LEGEND

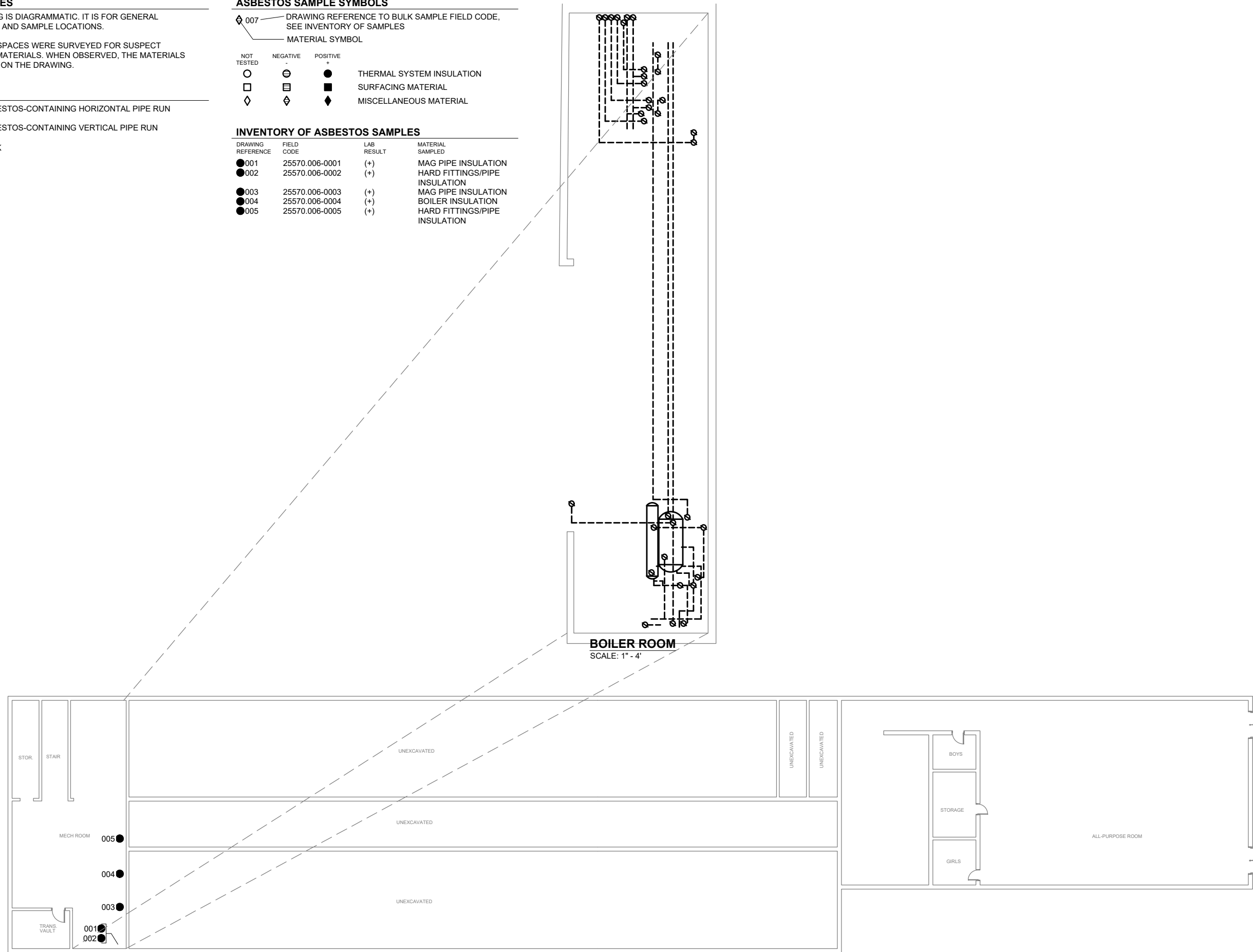
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- ASBESTOS-CONTAINING VERTICAL PIPE RUN
- ▭ TANK

ASBESTOS SAMPLE SYMBOLS

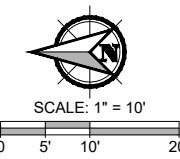
- ◇ 007 DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
- NOT TESTED
- ⊖ NEGATIVE
- ⊕ POSITIVE
- THERMAL SYSTEM INSULATION
- ▭ SURFACING MATERIAL
- ◇ MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
●001	25570.006-0001	(+)	MAG PIPE INSULATION
●002	25570.006-0002	(+)	HARD FITTINGS/PIPE INSULATION
●003	25570.006-0003	(+)	MAG PIPE INSULATION
●004	25570.006-0004	(+)	BOILER INSULATION
●005	25570.006-0005	(+)	HARD FITTINGS/PIPE INSULATION



BASEMENT



HAZARDOUS MATERIAL SURVEY PLAN - NORTHROP HALL
WASHINGTON CENTER FOR DEAF AND HARD OF HEARING
 611 GRAND BOULEVARD, VANCOUVER, WASHINGTON

NO	REVISION	DATE	BY	APPD

DRAWN BY: JAB
 CHECKED: JL
 DATE: SEPTEMBER 2022
 PROJECT NUMBER: 25570.006

SHEET DRAWING NO: **HS1**
 SHEET 1 OF 3

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Filename: L:\Projects\25570\25570-2559\25570_Washington-Schooler-Deal\25570.006_Northrop-Hall\CAD\25570.006_HS1.dwg User: Jim Blanco CAD Plot Date/Time: 9/16/2022 1:32:14 PM Layout Tab: 11X17

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.

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

LEGEND

- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC, EXPOSED ON CONCRETE SUBSTRATE
- ASBESTOS-CONTAINING VINYL FLOOR TILE AND MASTIC CONCEALED UNDER CARPET, ON CONCRETE SUBSTRATE
- ASBESTOS-CONTAINING CEMENT ASBESTOS BOARD, WITHIN RADIATOR CABINETS
- ASBESTOS-CONTAINING PERIMETER WINDOW FRAME CAULKING
- ASBESTOS-CONTAINING BLACK CHALKBOARDS
- ASBESTOS-CONTAINING HORIZONTAL 3" PIPE RUN
- ASBESTOS-CONTAINING HORIZONTAL 4"-6" PIPE RUN
- ASBESTOS-CONTAINING HORIZONTAL 6" PIPE RUN
- ASBESTOS-CONTAINING VERTICAL PIPE RUN

ASBESTOS SAMPLE SYMBOLS

- 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
006	25570.006-0006	(-)	SINK UNDERCOATING (01)
007	25570.006-0007	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
008	25570.006-0008	(-)	WALL AND CEILING PLASTER
009	25570.006-0009	(<1%/+)	VINYL FLOOR TILE/MASTIC (01)
010	25570.006-0010	(-/-)	CAULK (01)
011	25570.006-0011	(-)	MAGNESITE FLOORING
012	25570.006-0012	(-)	MASTIC (01)
013	25570.006-0013	(-)	MASTIC (02)
014	25570.006-0014	(-)	MASTIC (03)
015	25570.006-0015	(-/-)	VINYL FLOOR TILE/MASTIC (02)
016	25570.006-0016	(-/-)	COVEBASE/MASTIC (01)
017	25570.006-0017	(<1%/+)	SEALANT (01)
018	25570.006-0018	(+)	CHALKBOARD
019	25570.006-0019	(-/-)	CONCEALED GRID CEILING TILE
020	25570.006-0020	(-)	WALL AND CEILING PLASTER
021	25570.006-0021	(<1%/+)	VINYL FLOOR TILE/MASTIC (03)
022	25570.006-0022	(-)	MASTIC (04)
023	25570.006-0023	(<1%/+)	VINYL FLOOR TILE/MASTIC (01)
024	25570.006-0024	(<1%/+)	SEALANT (01)
025	25570.006-0025	(+)	MASTIC (05)
026	25570.006-0026	(-/-)	CONCEALED GRID CEILING TILE
027	25570.006-0027	(-/-)	CERAMIC TILE/GROUT
028	25570.006-0028	(-/-)	CERAMIC TILE/GROUT
029	25570.006-0029	(-/-)	MASTIC (01)
030	25570.006-0030	(-)	MASTIC (01)
031	25570.006-0031	(-/-)	COVEBASE/MASTIC (02)
032	25570.006-0032	(-/-)	VINYL FLOOR TILE/MASTIC (01)
033	25570.006-0033	(-/-/-)	VINYL FLOOR TILE/MASTIC (01)
034	25570.006-0034	(-/-)	MASTIC (01)
035	25570.006-0035	(<1%/+)	VINYL FLOOR TILE/MASTIC (03)

INVENTORY OF ASBESTOS SAMPLES (CONTINUED)

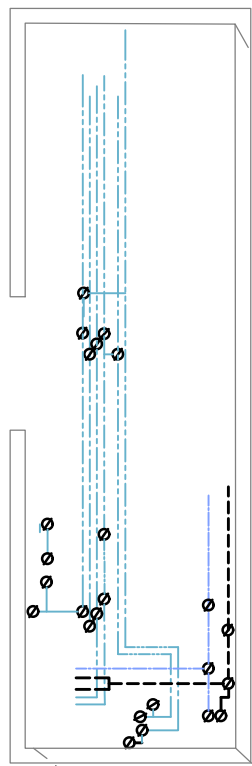
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036	25570.006-0036	(-)	MASTIC (05)
037	25570.006-0037	(-/-)	COVEBASE/MASTIC (03)
038	25570.006-0038	(-)	MASTIC (02)
039	25570.006-0039	(+/-<1%/+)	VINYL FLOOR TILE/MASTIC (03)
040	25570.006-0040	(-/-)	CONCEALED GRID CEILING TILE
041	25570.006-0041	(-)	WALL AND CEILING PLASTER
042	25570.006-0042	(<1%/+)	SEALANT (01)
043	25570.006-0043	(+)	CEMENT ASBESTOS BOARD
044	25570.006-0044	(+)	CEMENT ASBESTOS BOARD
045	25570.006-0045	(+)	CAULK (02)
046	25570.006-0046	(+)	CAULK (02)
047	25570.006-0047	(-/-)	STAIR TREAD/MASTIC
048	25570.006-0048	(+)	CAULK (03)
049	25570.006-0049	(-)	SEAM SEALANT (02)
050	25570.006-0050	(-)	MECHANICAL ISOLATION CLOTH
051	25570.006-0051	(+)	HARD FITTINGS/PIPE INSULATION
052	25570.006-0052	(+)	AIR CELL PIPE INSULATION
053	25570.006-0053	(<1%/+)	MAG PIPE INSULATION
054	25570.006-0054	(+)	HARD FITTINGS/PIPE INSULATION
084	25570.006-0084	(+)	CAULK (08)
085	25570.006-0085	(+)	WINDOW GLAZING COMPOUND
086	25570.006-0086	(+)	CAULK (08)
087	25570.006-0087	(<1%/+)	WINDOW GLAZING COMPOUND
088	25570.006-0088	(-/-)	MORTAR
089	25570.006-0089	(-)	CAULK (09)
090	25570.006-0090	(-)	CMU
090	25570.006-0090	(-)	CMU
091	25570.006-0091	(+)	CAULK (08)
092	25570.006-0092	(+)	WINDOW GLAZING COMPOUND
093	25570.006-0093	(+)	WINDOW GLAZING COMPOUND
094	25570.006-0094	(+)	CAULK (08)

LEAD SAMPLE SYMBOLS

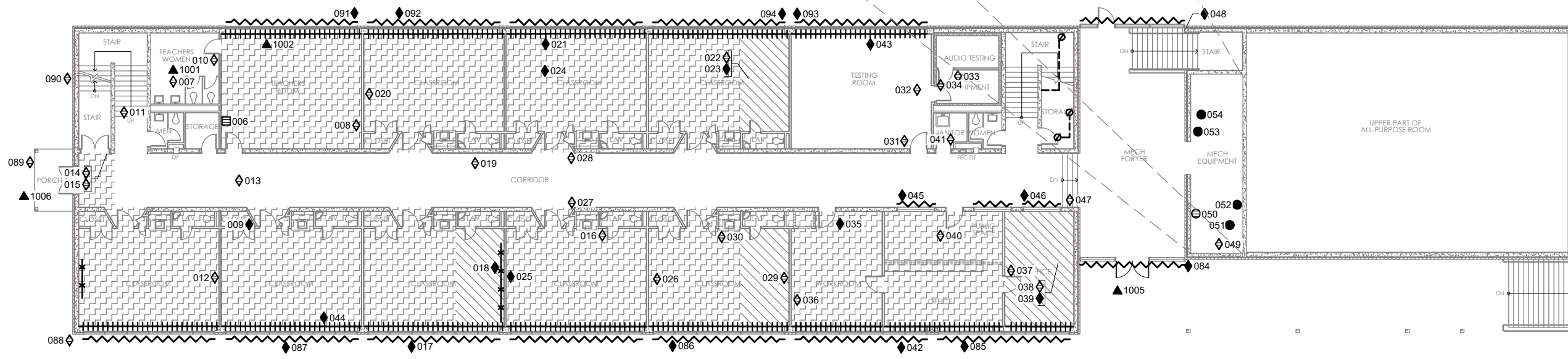
- DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
- MATERIAL SYMBOL
- LEAD DETECTED
- BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	25570.006-1001	3,120	PAINT ON TEACHERS ROOM 108; STAFF RESTROOM, CEILING, GYPSUM, LIGHT TAN, DAMAGED CONDITION
▲1002	25570.006-1002	161	PAINT ON TEACHERS ROOM 108; EAST SIDE RADIATOR PANEL, METAL, BEIGE, DAMAGED CONDITION
▲1005	25570.006-1005	3,940	PAINT ON FIRST FLOOR WEST MAIN ENTRY; EXTERIOR OVERHANG, WOOD, EGG-SHELL, DAMAGED CONDITION
▲1006	25570.006-1006	108	PAINT ON FIRST FLOOR; NORTH EXTERIOR ENTRY OVERHANG, METAL, EGG-SHELL, DAMAGED CONDITION



MECHANICAL ROOM
SCALE: 1" = 4'

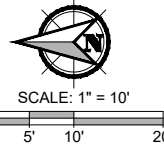


FIRST FLOOR

HAZARDOUS MATERIAL SURVEY PLAN - NORTHROP HALL
WASHINGTON CENTER FOR DEAF AND HARD OF HEARING
 611 GRAND BOULEVARD, VANCOUVER, WASHINGTON

NO	REVISION	DATE	BY	APPD

DRAWN BY	JAB
CHECKED:	JL
DATE:	SEPTEMBER 2022
PROJECT NUMBER:	25570.006
SHEET DRAWING NO.:	HS2
SHEET	2 OF 3



SCALE: 1" = 10'

Filename: L:\Projects\25570\25570-2559\25570-Washington-Schooler-Detail\25570.006-Northrop-Hall\CAD\25570.006-HS2.dwg Layout Tab: 11X17 User: Jim Blanco CAD Plot Date/Time: 9/16/2022 2:10:08 PM

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.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0001	Mag Pipe Insulation	Basement; southeast corner, pipe insulation, white, from brown 4" return line		Lab Cor
	Layer: Layer 1	Description: fibrous powder, white/brown	Analysis: 3% Chrysotile, 6% Amosite	
25570.006-0002	Hard Fittings/Pipe Insulation	Basement; southeast corner, hard fitting, white, from gray 6" steam line		Lab Cor
	Layer: Layer 1	Description: fibrous powder, white/brown	Analysis: 4% Chrysotile, 9% Amosite	
25570.006-0003	Mag Pipe Insulation	Basement; southeast corner, pipe insulation, white, from gray 3" line		Lab Cor
	Layer: Layer 1	Description: fibrous material, brown/gray	Analysis: 3% Chrysotile	
25570.006-0004	Boiler Insulation	Basement; southeast corner, large tank insulation, white		Lab Cor
	Layer: Layer 1	Description: fibrous powder, white/brown	Analysis: 4% Chrysotile, 9% Amosite	
25570.006-0005	Hard Fittings/Pipe Insulation	Basement; middle of east wall, hard fitting, white, off of yellow 6" line		Lab Cor
	Layer: Layer 1	Description: fibrous powder, white/brown	Analysis: 4% Chrysotile, 9% Amosite	
25570.006-0006	Sink Undercoating (01)	First floor; teachers room, 108, on stainless sink, black sink undercoating		Lab Cor
	Layer: Layer 1	Description: loose mastic, black	Analysis: No Asbestos Detected	
25570.006-0007	Gypsum Wallboard/Joint Compound	First floor; teachers room, 108, staff restroom, ceiling, white wallboard with white compound		Lab Cor
	Layer: Layer 01	Description: hard compact powder, off-white	Analysis: No Asbestos Detected	
	Layer: Layer 02	Description: granular compact powder, white	Analysis: No Asbestos Detected	
25570.006-0008	Wall and Ceiling Plaster	First floor; teachers room, 108, south wall, gray, granular wall plaster		Lab Cor
	Layer: Layer 1	Description: loose granular powder, gray	Analysis: No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0009	Vinyl Floor Tile/Mastic (01)	First floor; classroom 107, closet, on concrete, 9" by 9" green vinyl floor tile with black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	hard vinyl, green	<1% Chrysotile
		Layer 02	mastic, black	2% Chrysotile
25570.006-0010	Caulk (01)	First floor; teachers room, 108, staff restroom, around perimeter wood door frame, white, soft caulk		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	rubbery material, white	No Asbestos Detected
		Layer 02	powdery particulate, green	No Asbestos Detected
25570.006-0011	Magnesite Flooring	First floor; north stairwell, gray speckled magnesite flooring		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	loose granular material, white/tan/gray	No Asbestos Detected
25570.006-0012	Mastic (01)	First floor; classroom 109, south wall, behind corkboard, on plaster, brown, flaky mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	loose granular material, white with mastic, brown	No Asbestos Detected
25570.006-0013	Mastic (02)	First floor; north end of hallway, under carpet on magnesite, light yellow carpet mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	mastic, white	No Asbestos Detected
25570.006-0014	Mastic (03)	First floor; north entry, under walk off carpet, on vinyl tile, yellow carpet mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	mastic, brown/tan	No Asbestos Detected
25570.006-0015	Vinyl Floor Tile/Mastic (02)	First floor; north entry, under walk off carpet, on concrete, 12" by 12" green vinyl		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	coating, black/off-white	No Asbestos Detected
		Layer 02	hard vinyl, light green	No Asbestos Detected
		Layer 03	mastic, yellow	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0016	Covebase/Mastic (01)	First floor; classroom 105, east wall, black covebase with brown mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	rubbery material, brown	No Asbestos Detected
		Layer 02	mastic, brown	No Asbestos Detected
25570.006-0017	Sealant (01)	First floor; classroom 105, west windows, white/gray, firm window sealant		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	hard compact powder, off-white	<1% Chrysotile
25570.006-0018	Chalkboard	First floor; classroom 105, south wall, black chalkboard		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	fibrous cement, gray	8% Chrysotile
25570.006-0019	Concealed Grid Ceiling Tile	First floor; hallway outside room 106, 12" by 12" splined ceiling tile, off-white		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	coating, tan	No Asbestos Detected
		Layer 02	compressed fibers, gray	No Asbestos Detected
25570.006-0020	Wall and Ceiling Plaster	First floor; classroom 106, gray plaster wall behind corkboard		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	granular compact powder, gray/white	No Asbestos Detected
25570.006-0021	Vinyl Floor Tile/Mastic (03)	First floor; classroom 104, on concrete, 12" x 12" green vinyl floor tile with black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	hard vinyl, green	<1% Chrysotile
		Layer 02	mastic, black	4% Chrysotile
25570.006-0022	Mastic (04)	First floor; classroom 102, under carpet on 9" by 9" green vinyl tile, orange/yellow carpet mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	loose mastic, tan	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0023	Vinyl Floor Tile/Mastic (01)	First floor; classroom 102, 9" by 9" green vinyl floor tile with black mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	hard vinyl, green	<1% Chrysotile
		Layer 02	mastic, black	3% Chrysotile
25570.006-0024	Sealant (01)	First floor; classroom 104, east windows, white/gray, firm window sealant		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	hard compact powder, gray	<1% Chrysotile
25570.006-0025	Mastic (05)	First floor; classroom 103, north wall, black covebase mastic		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	hard compact material, black/tan	5% Chrysotile
25570.006-0026	Concealed Grid Ceiling Tile	First floor; classroom 101, 12" by 12" splined ceiling tile, off-white		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	coating, off-white	No Asbestos Detected
		Layer 02	compressed fibers, gray	No Asbestos Detected
25570.006-0027	Ceramic Tile/Grout	First floor; hallway outside classroom 103, aqua 2" by 2" ceramic wall tile		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	ceramic material, off-white	No Asbestos Detected
		Layer 02	hard compact material, green	No Asbestos Detected
25570.006-0028	Ceramic Tile/Grout	First floor; hallway outside classroom 104, blue 2" by 2" ceramic wall tile with gray grout		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	ceramic material, green/tan	No Asbestos Detected
		Layer 02	hard compact powder, white	No Asbestos Detected
25570.006-0029	Mastic (01)	First floor; classroom 101, brown mastic behind corkboard on south wall		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	cork material, brown	No Asbestos Detected
		Layer 02	granular mastic material, brown/white	No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0030	Mastic (01)	First floor; classroom 101, east wall, behind corkboard, brown mastic		Lab Cor
		Layer: Layer 1	Description: granular mastic material, brown/white	Analysis: No Asbestos Detected
25570.006-0031	Covebase/Mastic (02)	First floor; testing room 122, west hall, 4" brown vinyl covebase with brown mastic		Lab Cor
		Layer: Layer 01	Description: rubbery material, brown	Analysis: No Asbestos Detected
		Layer 02	mastic, brown with fine compact powder, off-white	No Asbestos Detected
25570.006-0032	Vinyl Floor Tile/Mastic (01)	First floor; testing room 122, south side, under carpet, on concrete, 9" by 9" red vinyl floor tile with black mastic		Lab Cor
		Layer: Layer 01	Description: mastic, tan	Analysis: No Asbestos Detected
		Layer 02	hard vinyl, red	No Asbestos Detected
		Layer 03	cementitious material, gray	No Asbestos Detected
25570.006-0033	Vinyl Floor Tile/Mastic (01)	First floor; room 121, middle of room, under carpet, on concrete, 9" by 9" red vinyl floor tile with black mastic		Lab Cor
		Layer: Layer 01	Description: mastic, tan	Analysis: No Asbestos Detected
		Layer 02	hard vinyl, red	No Asbestos Detected
		Layer 03	cementitious material, gray	No Asbestos Detected
		Layer 04	fine compact powder, off-white	No Asbestos Detected
25570.006-0034	Mastic (01)	First floor; room 121, behind carpet on wall, yellow carpet mastic, brown corkboard, brown mastic		Lab Cor
		Layer: Layer 01	Description: vinyl, tan	Analysis: No Asbestos Detected
		Layer 02	mastic, brown with coating, off- white	No Asbestos Detected
25570.006-0035	Vinyl Floor Tile/Mastic (03)	First floor; workroom 112, east side, 12" by 12" green vinyl floor tile with black mastic on concrete		Lab Cor
		Layer: Layer 01	Description: hard vinyl, green	Analysis: <1% Chrysotile
		Layer 02	mastic, black	2% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0036	Mastic (06)	First floor; workroom 112, north side, under counter top laminate, yellow mastic		Lab Cor
		Layer: Layer 1	Description: loose particulate, brown	Analysis: No Asbestos Detected
25570.006-0037	Covebase/Mastic (03)	First floor; principal's office, north wall, 6" light brown covebase with yellow mastic		Lab Cor
		Layer: Layer 01	Description: coating, off-white/green	Analysis: No Asbestos Detected
		Layer 02	rubbery material, brown	No Asbestos Detected
25570.006-0038	Mastic (02)	First floor; principal's office, north carpet, on vinyl tile, yellow carpet mastic		Lab Cor
		Layer: Layer 1	Description: loose particulate, off-white with mastic, brown	Analysis: No Asbestos Detected
25570.006-0039	Vinyl Floor Tile/Mastic (03)	First floor; principal's office, north carpet, on concrete, green vinyl floor tile with black mastic		Lab Cor
		Layer: Layer 01	Description: mastic, black	Analysis: 2% Chrysotile
		Layer 02	hard vinyl, green	<1% Chrysotile
		Layer 03	mastic, tan	No Asbestos Detected
25570.006-0040	Concealed Grid Ceiling Tile	First floor; main office, 12" by 12" off-white splined ceiling tile		Lab Cor
		Layer: Layer 01	Description: coating, tan	Analysis: No Asbestos Detected
		Layer 02	compressed fibers, gray	No Asbestos Detected
25570.006-0041	Wall and Ceiling Plaster	First floor; janitor closet, west wall, gray, granular plaster		Lab Cor
		Layer: Layer 1	Description: loose granular powder, white/gray	Analysis: No Asbestos Detected
25570.006-0042	Sealant (01)	First floor; main office, northwest window, white/gray, firm window sealant		Lab Cor
		Layer: Layer 1	Description: hard compact powder, gray	Analysis: <1% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0043	Cement Asbestos Board	First floor; testing room 122, east side, in radiator unit, gray/white cement asbestos board panel		Lab Cor
		Layer: Layer 1	Description: fibrous cement, gray	Analysis: 8% Chrysotile
25570.006-0044	Cement Asbestos Board	First floor; classroom 107, west side, in radiator unit, gray/white cement asbestos board panel		Lab Cor
		Layer: Layer 1	Description: fibrous cement, gray	Analysis: 8% Chrysotile
25570.006-0045	Caulk (02)	First floor; outside main office on west wall, around perimeter of metal window, brown, firm, window caulking		Lab Cor
		Layer: Layer 1	Description: hard compact material, gray/brown	Analysis: 5% Chrysotile
25570.006-0046	Caulk (02)	First floor; outside principal's office on west wall around perimeter of metal window, brown, firm, window caulking		Lab Cor
		Layer: Layer 1	Description: hard compact material, gray/brown	Analysis: 6% Chrysotile
25570.006-0047	Stair Tread/Mastic	First floor; south side of hallway, stairs, on magnesite, brown vinyl stair tread with yellow mastic		Lab Cor
		Layer: Layer 01	Description: rubbery material, brown	Analysis: No Asbestos Detected
		Layer: Layer 02	Description: mastic, white	Analysis: No Asbestos Detected
25570.006-0048	Caulk (03)	First floor; south side of building, east entry, around perimeter of window system, between metal frame & brick, dark gray, firm, caulking		Lab Cor
		Layer: Layer 1	Description: hard compact material, gray/brown	Analysis: 6% Chrysotile
25570.006-0049	Seam Sealant (02)	First floor; south mechanical room, around HVAC unit seams, gray, flexible caulking		Lab Cor
		Layer: Layer 1	Description: rubbery material, gray	Analysis: No Asbestos Detected
25570.006-0050	Mechanical Isolation Cloth	First floor; south mechanical room, on HVAC duct joint, white, woven, mechanical insulation cloth		Lab Cor
		Layer: Layer 1	Description: woven fibers, white	Analysis: No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0051	Hard Fittings/Pipe Insulation	First floor; south mechanical room, from 6" line, white, fibrous, pipe insulation		Lab Cor
	Layer: Layer 1	Description: fibrous powder, white	Analysis: 6% Chrysotile, 6% Amosite	
25570.006-0052	Air Cell Pipe Insulation	First floor; south mechanical room, from brown 4" line, white corrugated pipe insulation		Lab Cor
	Layer: Layer 1	Description: fibrous material, brown/red	Analysis: 5% Chrysotile	
25570.006-0053	Mag Pipe Insulation	First floor; south mechanical room, from 6" line, white, fluffy pipe insulation		Lab Cor
	Layer: Layer 1	Description: fibrous powder, off-white	Analysis: <1% Chrysotile, 8% Amosite	
25570.006-0054	Hard Fittings/Pipe Insulation	First floor; south mechanical room, from 6" line, white, fibrous, pipe insulation		Lab Cor
	Layer: Layer 1	Description: fibrous powder, white	Analysis: 8% Chrysotile, 8% Amosite	
25570.006-0055	Vinyl Floor Tile/Mastic (01)	Second floor; classroom 212, in closet on concrete, 9" by 9" green vinyl floor		Lab Cor
	Layer: Layer 01	Description: hard vinyl, green	Analysis: No Asbestos Detected	
	Layer 02	thin mastic, brown	No Asbestos Detected	
25570.006-0056	Cement Asbestos Board	Second floor; classroom 212, west side, in radiator unit, gray/white cement asbestos board		Lab Cor
	Layer: Layer 01	Description: fibrous cement, gray	Analysis: 8% Chrysotile	
	Layer 02	fibrous backing, brown	No Asbestos Detected	
25570.006-0057	Sealant (01)	Second floor; classroom 212; west side, white/gray, firm, window sealant		Lab Cor
	Layer: Layer 1	Description: hard compact powder, light gray	Analysis: <1% Chrysotile	
25570.006-0058	Covebase/Mastic (01)	Second floor; classroom 212, east wall, 4" black, covebase, with brown mastic		Lab Cor
	Layer: Layer 1	Description: loose hard material, black/brown	Analysis: No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0059	Mastic (01)	Second floor; north side of hallway, west wall, behind corkboard, brown mastic		Lab Cor
		Layer: Layer 1	Description: loose particulate, brown/white/tan	Analysis: No Asbestos Detected
25570.006-0060	Concealed Grid Ceiling Tile (02)	Second floor; elevator lobby, on splined ceiling grid, 12" by 12" white pinhole and fissured ceiling tile		Lab Cor
		Layer: Layer 01	Description: coating, white	Analysis: No Asbestos Detected
		Layer: Layer 02	Description: compressed fibrous material, tan/gray	Analysis: No Asbestos Detected
25570.006-0061	Caulk (04)	Second floor; elevator lobby, north side, around perimeter of metal window frame, white flexible caulking		Lab Cor
		Layer: Layer 1	Description: loose particulate, off-white/pink/gray	Analysis: No Asbestos Detected
25570.006-0062	Covebase/Mastic (04)	Second floor; classroom 212, south wall, 4" green vinyl covebase with tan mastic		Lab Cor
		Layer: Layer 1	Description: loose particulate, white/green/yellow	Analysis: No Asbestos Detected
25570.006-0063	Mechanical Isolation Cloth	Second floor; north storage room, on HVAC unit, white, woven mechanical isolation cloth		Lab Cor
		Layer: Layer 01	Description: woven fibers with coating, tan	Analysis: No Asbestos Detected
		Layer: Layer 02	Description: granular compact powder, off-white	Analysis: No Asbestos Detected
25570.006-0064	Vinyl Floor Tile/Mastic (04)	Second floor; classroom 210, north closet, on concrete, 9" by 9" red vinyl floor tile with brown mastic		Lab Cor
		Layer: Layer 01	Description: vinyl, red/yellow/orange	Analysis: No Asbestos Detected
		Layer: Layer 02	Description: mastic, brown	Analysis: No Asbestos Detected
25570.006-0065	Chalkboard	Second floor; classroom 210, north wall, black, white chalkboard		Lab Cor
		Layer: Layer 1	Description: fibrous powder with paint, gray/green	Analysis: 25% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0066	Wall and Ceiling Plaster	Second floor; classroom 210, south closet, small, gray, granular wall plaster		Lab Cor
	Layer: Layer 1	Description: loose granular powder, gray/off-white/blue	Analysis: No Asbestos Detected	
25570.006-0067	Covebase/Mastic (05)	Second floor; classroom 211, east wall, 5" tan covebase with tan mastic		Lab Cor
	Layer: Layer 01	Description: rubbery material, light gray	Analysis: No Asbestos Detected	
	Layer 02	rubbery mastic material, off-white/tan	No Asbestos Detected	
25570.006-0068	Mastic (05)	Second floor; classroom 211, under carpet, on vinyl floor tile, yellow carpet mastic		Lab Cor
	Layer: Layer 1	Description: loose mastic, tan/yellow	Analysis: No Asbestos Detected	
25570.006-0069	Vinyl Floor Tile/Mastic (04)	Second floor; classroom 206, under carpet, on concrete, 9" by 9" red vinyl floor tile with brown mastic		Lab Cor
	Layer: Layer 01	Description: vinyl, red	Analysis: No Asbestos Detected	
	Layer 02	thin coating with mastic, yellow/brown	No Asbestos Detected	
25570.006-0070	Window Glazing Compound	Second floor; classroom 206, exterior of window assembly, between glass and metal frame, white, window glazing		Lab Cor
	Layer: Layer 1	Description: loose particulate, gray/off-white	Analysis: 2% Chrysotile	
25570.006-0071	Mastic (06)	Second floor; classroom 206, west side, under countertop laminate, yellow mastic		Lab Cor
	Layer: Layer 1	Description: loose particulate, tan/brown	Analysis: No Asbestos Detected	
25570.006-0072	Wall and Ceiling Plaster	Second floor; classroom 206, east wall, gray, granular wall plaster		Lab Cor
	Layer: Layer 1	Description: loose granular powder, gray/off-white	Analysis: No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0073	Window Glazing Compound	Second floor; classroom 204, exterior of window assembly, between glass and metal frame, white, window glazing		Lab Cor
	Layer: Layer 1	Description: loose particulate, gray/off-white	Analysis: 2% Chrysotile	
25570.006-0074	Vinyl Floor Tile/Mastic (05)	Second floor; classroom 205, closet, under carpet, on concrete, 9" by9" green vinyl floor tile with brown mastic		Lab Cor
	Layer: Layer 1	Description: vinyl, green, with thin coating, clear/tan/brown	Analysis: No Asbestos Detected	
25570.006-0075	Concealed Grid Ceiling Tile	Second floor; classroom 205, 12" by 12" off-white fissured ceiling tile, on splined ceiling grid		Lab Cor
	Layer: Layer 1	Description: compressed fibers, gray with paint, tan	Analysis: No Asbestos Detected	
25570.006-0076	Vinyl Floor Tile/Mastic (04)	Second floor; classroom 202, on concrete under carpet, 9" by9" red vinyl floor tile with brown mastic		Lab Cor
	Layer: Layer 01	Description: hard vinyl, red	Analysis: No Asbestos Detected	
	Layer 02	fine compact powder, off-white/tan	No Asbestos Detected	
	Layer 03	thin mastic, black	No Asbestos Detected	
25570.006-0077	Mastic (07)	Second floor; classroom 202, west wall, brown covebase mastic		Lab Cor
	Layer: Layer 1	Description: loose mastic particulate, green/brown	Analysis: <1% Chrysotile	
25570.006-0078	Concealed Grid Ceiling Tile	Second floor; hallway outside classroom 204, on splined ceiling grid, 12" by 12" off-white fissured ceiling tile		Lab Cor
	Layer: Layer 1	Description: compressed fibers, gray with paint, tan	Analysis: No Asbestos Detected	
25570.006-0079	Window Glazing Compound	Second floor; classroom 201, exterior of window assembly, between glass and metal frame, white, firm window glazing		Lab Cor
	Layer: Layer 1	Description: hard compact powder, off-white/gray with coating, black	Analysis: 3% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0080	Magnesite Flooring	Second floor; top of south stairwell, gray speckled magnesite flooring		Lab Cor
		Layer: Layer 1	Description: loose particulate, off-white/gray	Analysis: No Asbestos Detected
25570.006-0081	Caulk (05)	Second floor; south lower roof, exterior window frame caulk, white, between metal and brick		Lab Cor
		Layer: Layer 1	Description: soft rubbery material, off-white	Analysis: No Asbestos Detected
25570.006-0082	Caulk (06)	Second floor; south lower roof, pipe vent caulk, white		Lab Cor
		Layer: Layer 1	Description: soft rubbery material, off-white	Analysis: No Asbestos Detected
25570.006-0083	Caulk (07)	Second floor; south lower roof, exterior window frame caulk, gray, between metal and metal		Lab Cor
		Layer: Layer 1	Description: loose rubbery particulate, gray	Analysis: No Asbestos Detected
25570.006-0084	Caulk (08)	First floor; west main entrance, exterior window frame caulk, brown		Lab Cor
		Layer: Layer 1	Description: soft powdery material, brown/gray	Analysis: 3% Chrysotile
25570.006-0085	Window Glazing Compound	First floor; west exterior, exterior window glazing, white, between glass and metal frame		Lab Cor
		Layer: Layer 1	Description: hard compact powder, off-white/gray	Analysis: 2% Chrysotile
25570.006-0086	Caulk (08)	First floor; west exterior, exterior window frame caulk, brown		Lab Cor
		Layer: Layer 1	Description: mastic, brown with coating, off-white	Analysis: 3% Chrysotile
25570.006-0087	Window Glazing Compound	First floor; west exterior, exterior window glazing, white, between glass and metal frame		Lab Cor
		Layer: Layer 1	Description: hard compact powder, off-white/green	Analysis: <1% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
25570.006-0088	Mortar	First floor; northwest exterior corner, brick and mortar, red/gray		Lab Cor
		Layer:	Description:	Analysis:
		Layer 01	hard compact powder, red	No Asbestos Detected
		Layer 02	granular compact powder, gray	No Asbestos Detected
25570.006-0089	Caulk (09)	First floor; north exterior, door frame caulk, gray with red coating		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	rubbery material, gray with coating, brown	No Asbestos Detected
25570.006-0090	CMU	First floor; north exterior, CMU block, gray, with red coating		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	granular powder, gray/red/brown	No Asbestos Detected
25570.006-0091	Caulk (08)	First floor; east side, north end, exterior, brown perimeter window frame caulk		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	compact powdery material, gray/brown	3% Chrysotile
25570.006-0092	Window Glazing Compound	First floor; east side, north end, between glass & metal frame, white, firm window glazing		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	loose particulate, off-white/brown	2% Chrysotile
25570.006-0093	Window Glazing Compound	First floor; east side, south end, between glass and metal frame, white, firm window glazing		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	compact powdery material, gray/white/brown	2% Chrysotile
25570.006-0094	Caulk (08)	First floor; east side, south end, around perimeter of exterior window frame, between frame and brick, brown window frame caulking		Lab Cor
		Layer:	Description:	Analysis:
		Layer 1	soft compact powder, brown/gray	2% Chrysotile

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB25570.006-1001	Paint	3,120 ppm	Teachers room 108; staff restroom, ceiling, gypsum, light tan, damaged condition	R.J. Lee Group
LB25570.006-1002	Paint	161 ppm	Teachers room 108; east side radiator panel, metal, beige, damaged condition	R.J. Lee Group
LB25570.006-1003	Paint	6,450 ppm	Second floor hallway; far south end, radiator panel, metal, gray/blue, damaged condition	R.J. Lee Group
LB25570.006-1004	Paint	16,100 ppm	Second floor south lower roof; roof vent, metal, off-white, damaged condition	R.J. Lee Group
LB25570.006-1005	Paint	3,940 ppm	First floor west main entry; exterior overhang, wood, egg-shell, damaged condition	R.J. Lee Group
LB25570.006-1006	Paint	108 ppm	First floor; north exterior entry overhang, metal, egg-shell, damaged condition	R.J. Lee Group



PLM - Visual Estimate Extended Final Report

Job Number: 222398

Client: PBS Engineering and Environmental

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

Report Number: 222398R01

Report Date: 8/9/2022

Project Name:

Project No.: 25570.006 Phase 0001

PO Number:

Sub Project:

Reference No.:

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:
222398 - S1	25570.006-0001 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S2	25570.006-0002 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S3	25570.006-0003 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S4	25570.006-0004 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S5	25570.006-0005 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S6	25570.006-0006 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S7	25570.006-0007 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S8	25570.006-0008 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S9	25570.006-0009 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S10	25570.006-0010 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S11	25570.006-0011 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S12	25570.006-0012 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S13	25570.006-0013 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S14	25570.006-0014 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S15	25570.006-0015 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S16	25570.006-0016 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S17	25570.006-0017 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S18	25570.006-0018 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S19	25570.006-0019 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S20	25570.006-0020 -	PLM - Visual Estimate Extended		8/5/2022
222398 - S21	25570.006-0021 -	PLM - Visual Estimate Extended		8/5/2022



PLM - Visual Estimate Extended Final Report

Job Number: 222398

Client: PBS Engineering and Environmental

Report Number: 222398R01

Report Date: 8/9/2022

Project Name:

222398 - S22	25570.006-0022 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S23	25570.006-0023 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S24	25570.006-0024 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S25	25570.006-0025 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S26	25570.006-0026 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S27	25570.006-0027 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S28	25570.006-0028 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S29	25570.006-0029 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S30	25570.006-0030 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S31	25570.006-0031 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S32	25570.006-0032 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S33	25570.006-0033 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S34	25570.006-0034 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S35	25570.006-0035 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S36	25570.006-0036 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S37	25570.006-0037 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S38	25570.006-0038 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S39	25570.006-0039 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S40	25570.006-0040 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S41	25570.006-0041 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S42	25570.006-0042 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S43	25570.006-0043 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S44	25570.006-0044 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S45	25570.006-0045 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S46	25570.006-0046 -	PLM - Visual Estimate Extended	8/5/2022
222398 - S47	25570.006-0047 -	PLM - Visual Estimate Extended	8/5/2022

BULK SAMPLE ASBESTOS ANALYSIS

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0001	Sample ID: S1	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile Amosite Crocidolite
Homogeneous		Percent Asbestos:
fibrous powder, white/brown	100 % 3 % 6 % -	9 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 91 %
-	-	-

Client Sample ID: 25570.006-0002	Sample ID: S2	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile Amosite Crocidolite
Homogeneous		Percent Asbestos:
fibrous powder, white/brown	100 % 4 % 9 % -	13 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 87 %
-	-	-

Client Sample ID: 25570.006-0003	Sample ID: S3	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile Amosite Crocidolite
Homogeneous		Percent Asbestos:
fibrous material, brown/gray	100 % 3 % - -	3 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 17 %
-	80 %	-

Client Sample ID: 25570.006-0004	Sample ID: S4	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent:	Chrysotile Amosite Crocidolite
Homogeneous		Percent Asbestos:
fibrous powder, white/brown	100 % 4 % 9 % -	13 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 87 %
-	-	-

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0005	Sample ID: S5	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous fibrous powder, white/brown	100 % 4 % 9 % -	13 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 87 %
- - - - -	- - - - -	- - - - -

Client Sample ID: 25570.006-0006	Sample ID: S6	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous loose mastic, black	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 97 %
- - - 3 % - -	- - - - -	- - - - -

Client Sample ID: 25570.006-0007	Sample ID: S7	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 hard compact powder, off-white	20 % - - -	NAD
Layer 02 granular compact powder, white	80 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- - - - -	100 %
Layer 02	- Trace - - -	100 %

Client Sample ID: 25570.006-0008	Sample ID: S8	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous loose granular powder, gray	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 100 %
- - - - -	- - - - -	- - - - -

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0009	Sample ID: S9	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 hard vinyl, green	95 % Trace - -	< 1 %
Layer 02 mastic, black	5 % 2 % - -	2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- - - - -	100 %
Layer 02	- - - - -	98 %

Comments: A gravimetric preparation and point-count is recommended for layer 01.

Client Sample ID: 25570.006-0010	Sample ID: S10	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 rubbery material, white	98 % - - -	NAD
Layer 02 powdery particulate, green	2 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- - - - -	100 %
Layer 02	- - - - -	100 %

Client Sample ID: 25570.006-0011	Sample ID: S11	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous loose granular material, white/tan/gray	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
	- - - - -	100 %

Asbestos and Environmental Analysis

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0012	Sample ID: S12	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
loose granular material, white with mastic, brown	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
	- - - - -		

Client Sample ID: 25570.006-0013	Sample ID: S13	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
mastic, white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
	- - - - -		

Client Sample ID: 25570.006-0014	Sample ID: S14	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
mastic, brown/tan	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
	- - - - -		

Client Sample ID: 25570.006-0015	Sample ID: S15	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01			
coating, black/off-white	10 % - - -		NAD
Layer 02			
hard vinyl, light green	88 % - - -		NAD
Layer 03			
mastic, yellow	2 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- - - - -		100 %
Layer 03	- - - - -		100 %

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0016	Sample ID: S16	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
rubbery material, brown	95 %	-	-
			NAD
Layer 02			
mastic, brown	5 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
Layer 01	-	-	-
			Matrix
			100 %
Layer 02	-	-	Talc
			4 %
			96 %

Client Sample ID: 25570.006-0017	Sample ID: S17	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact powder, off-white	100 %	Trace	-
			< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
	-	-	-
			Matrix
			100 %

Client Sample ID: 25570.006-0018	Sample ID: S18	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
fibrous cement, gray	100 %	8 %	-
			8 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
	-	-	-
			Matrix
			92 %

Client Sample ID: 25570.006-0019	Sample ID: S19	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
coating, tan	5 %	-	-
			NAD
Layer 02			
compressed fibers, gray	95 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
Layer 01	-	-	-
			Matrix
			100 %
Layer 02	35 %	-	35 %
			30 %

Asbestos and Environmental Analysis

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0020	Sample ID: S20	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous granular compact powder, gray/white	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 100 %
- - - - -	- - - - -	- - - - -

Client Sample ID: 25570.006-0021	Sample ID: S21	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 hard vinyl, green	85 % Trace - -	< 1 %
Layer 02 mastic, black	15 % 4 % - -	4 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 100 %
Layer 01	- - - - -	- - - - -
Layer 02	- - - - -	- - - - -

Comments: A gravimetric prep and point-count is recommended for layer 01.

Client Sample ID: 25570.006-0022	Sample ID: S22	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous loose mastic, tan	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 100 %
- - - - -	- - - - -	- - - - -

Client Sample ID: 25570.006-0023	Sample ID: S23	Date Analyzed: 08/08/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 hard vinyl, green	90 % Trace - -	< 1 %
Layer 02 mastic, black	10 % 3 % - -	3 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 100 %
Layer 01	- - - - -	- - - - -
Layer 02	- - - - -	- - - - -

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0024	Sample ID: S24	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact powder, gray	100 %	Trace	-
			-
			< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

Client Sample ID: 25570.006-0025	Sample ID: S25	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact material, black/tan	100 %	5 %	-
			-
			5 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			95 %

Client Sample ID: 25570.006-0026	Sample ID: S26	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
coating, off-white	5 %	-	-
			-
			NAD
Layer 02			
compressed fibers, gray	95 %	-	-
			-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01			100 %
Layer 02	35 %	-	35 %
			-
			-
			30 %

Asbestos and Environmental Analysis

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0027	Sample ID: S27	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
ceramic material, off-white	50 %	-	-
			NAD
Layer 02			
hard compact material, green	50 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
Layer 02	-	-	-

Client Sample ID: 25570.006-0028	Sample ID: S28	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
ceramic material, green/tan	90 %	-	-
			NAD
Layer 02			
hard compact powder, white	10 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
Layer 02	-	-	-

Client Sample ID: 25570.006-0029	Sample ID: S29	Date Analyzed: 08/08/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
cork material, brown	85 %	-	-
			NAD
Layer 02			
granular mastic material, brown/white	15 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
Layer 02	-	-	-

Asbestos and Environmental Analysis

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0030	Sample ID: S30	Date Analyzed: 08/08/2022				
Client Sample Description:		Analyst: Ryan Talaski-Brown				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular mastic material, brown/white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 25570.006-0031	Sample ID: S31	Date Analyzed: 08/09/2022				
Client Sample Description:		Analyst: Muhammad Rauch				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, brown	45 %	-	-	-		NAD
Layer 02						
mastic, brown with fine compact powder, off- white	55 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	Trace	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 25570.006-0032	Sample ID: S32	Date Analyzed: 08/09/2022				
Client Sample Description:		Analyst: Muhammad Rauch				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan	10 %	-	-	-		NAD
Layer 02						
hard vinyl, red	75 %	-	-	-		NAD
Layer 03						
cementitious material, gray	15 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	-	-	-
Layer 02	-	15 %	-	-	-	85 %
Layer 03	-	5 %	-	-	-	95 %

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0035	Sample ID: S35	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
hard vinyl, green	80 %	Trace	-
			< 1 %
Layer 02			
mastic, black	20 %	2 %	-
			2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	2 %	-
			Trace
			-
			98 %
Layer 02	-	2 %	-
			-
			96 %

Client Sample ID: 25570.006-0036	Sample ID: S36	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Homogeneous			
loose particulate, brown	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
	Trace	35 %	-
			-
			65 %

Client Sample ID: 25570.006-0037	Sample ID: S37	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
coating, off-white/green	15 %	-	-
			NAD
Layer 02			
rubbery material, brown	85 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	Trace	-
			-
			100 %
Layer 02	-	Trace	-
			-
			100 %

Client Sample ID: 25570.006-0038	Sample ID: S38	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Homogeneous			
loose particulate, off-white with mastic, brown	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
	-	5 %	-
			-
			95 %



Asbestos and Environmental Analysis

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0039	Sample ID: S39	Date Analyzed: 08/09/2022				
Client Sample Description:		Analyst: Muhammad Rauch				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, black	20 %	2 %	-	-		2 %
Layer 02						
hard vinyl, green	65 %	Trace	-	-		< 1 %
Layer 03						
mastic, tan	15 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	98 %
Layer 02	-	Trace	-	-	-	100 %
Layer 03	-	2 %	-	-	-	98 %

Client Sample ID: 25570.006-0040	Sample ID: S40	Date Analyzed: 08/09/2022				
Client Sample Description:		Analyst: Muhammad Rauch				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
coating, tan	10 %	-	-	-		NAD
Layer 02						
compressed fibers, gray	90 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	90 %	-	5 %	-	-	5 %

Client Sample ID: 25570.006-0041	Sample ID: S41	Date Analyzed: 08/09/2022				
Client Sample Description:		Analyst: Ryan Talaski-Brown				
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose granular powder, white/gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0042	Sample ID: S42	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact powder, gray	100 %	Trace	-
			-
			< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

Client Sample ID: 25570.006-0043	Sample ID: S43	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
fibrous cement, gray	100 %	8 %	-
			-
			8 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			92 %

Client Sample ID: 25570.006-0044	Sample ID: S44	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
fibrous cement, gray	100 %	8 %	-
			-
			8 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			92 %

Client Sample ID: 25570.006-0045	Sample ID: S45	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact material, gray/brown	100 %	5 %	-
			-
			5 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			95 %

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

Report Number: 222398R01
Report Date: 08/09/2022

Job Number: 222398

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0046	Sample ID: S46	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact material, gray/brown	100 %	6 %	-
			6 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			94 %

Client Sample ID: 25570.006-0047	Sample ID: S47	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
rubbery material, brown	65 %	-	-
			NAD
Layer 02			
mastic, white	35 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
			100 %
Layer 02	-	-	-
			100 %

Client Sample ID: 25570.006-0048	Sample ID: S48	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
hard compact material, gray/brown	100 %	6 %	-
			6 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			94 %

Client Sample ID: 25570.006-0049	Sample ID: S49	Date Analyzed: 08/09/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
rubbery material, gray	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %



222398 1/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 25570.006 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: August 05, 2022

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

Name: Alex Zanger

Authorized Signature: [Signature] Date: 8/5/22 Time: 1348

RECEIVER

Date Received: 8/5/22

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

Name: Mark [Signature]

Authorized Signature: [Signature] Date: 8/5/22 Time: 1:50

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows 1-14.



222398 2/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

25570.006-0015

25570.006-0016

25570.006-0017

25570.006-0018

25570.006-0019

25570.006-0020

25570.006-0021

25570.006-0022

25570.006-0023

25570.006-0024

25570.006-0025

25570.006-0026

25570.006-0027

25570.006-0028

25570.006-0029

25570.006-0030

25570.006-0031

25570.006-0032

25570.006-0033

25570.006-0034

25570.006-0035

25570.006-0036

25570.006-0037

25570.006-0038

25570.006-0039



222398 3/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

25570.006-0040

25570.006-0041

25570.006-0042

25570.006-0043

25570.006-0044

25570.006-0045

25570.006-0046

25570.006-0047

25570.006-0048

25570.006-0049

25570.006-0050

Please analyze the enclosed 50 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:

72 Hour

SPECIAL INSTRUCTIONS:

SL/BW



PLM - Visual Estimate Extended Final Report

Job Number: 222463

Client: PBS Engineering and Environmental

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

Report Number: 222463R01

Report Date: 8/15/2022

Project Name:

Project No.: 25570.006 Phase 0001

PO Number:

Sub Project:

Reference No.:

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:
222463 - S1	25570.006-0051 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S2	25570.006-0052 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S3	25570.006-0053 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S4	25570.006-0054 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S5	25570.006-0055 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S6	25570.006-0056 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S7	25570.006-0057 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S8	25570.006-0058 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S9	25570.006-0059 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S10	25570.006-0060 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S11	25570.006-0061 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S12	25570.006-0062 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S13	25570.006-0063 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S14	25570.006-0064 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S15	25570.006-0065 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S16	25570.006-0066 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S17	25570.006-0067 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S18	25570.006-0068 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S19	25570.006-0069 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S20	25570.006-0070 -	PLM - Visual Estimate Extended		8/11/2022
222463 - S21	25570.006-0071 -	PLM - Visual Estimate Extended		8/11/2022



PLM - Visual Estimate Extended Final Report

Job Number: 222463

Client: PBS Engineering and Environmental

Report Number: 222463R01

Report Date: 8/15/2022

Project Name:

222463 - S22	25570.006-0072 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S23	25570.006-0073 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S24	25570.006-0074 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S25	25570.006-0075 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S26	25570.006-0076 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S27	25570.006-0077 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S28	25570.006-0078 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S29	25570.006-0079 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S30	25570.006-0080 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S31	25570.006-0081 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S32	25570.006-0082 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S33	25570.006-0083 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S34	25570.006-0084 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S35	25570.006-0085 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S36	25570.006-0086 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S37	25570.006-0087 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S38	25570.006-0088 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S39	25570.006-0089 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S40	25570.006-0090 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S41	25570.006-0091 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S42	25570.006-0092 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S43	25570.006-0093 -	PLM - Visual Estimate Extended	8/11/2022
222463 - S44	25570.006-0094 -	PLM - Visual Estimate Extended	8/11/2022



PLM - Visual Estimate Extended Final Report

Job Number: 222463

Client: PBS Engineering and Environmental

Report Number: 222463R01

Report Date: 8/15/2022

Project Name:

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,

Muhammad Rauch
PLM Analyst

BULK SAMPLE ASBESTOS ANALYSIS

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0051	Sample ID: S1	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
fibrous powder, white	100 % 6 % 6 % -	12 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
- - - - -	- - - - -	88 %

Client Sample ID: 25570.006-0052	Sample ID: S2	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
fibrous material, brown/red	100 % 5 % - -	5 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
- 80 % - - -	- - - - -	15 %

Client Sample ID: 25570.006-0053	Sample ID: S3	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
fibrous powder, off-white	100 % Trace 8 % -	8 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
- - - - -	- - - - -	92 %

Client Sample ID: 25570.006-0054	Sample ID: S4	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Ryan Talaski-Brown
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous		
fibrous powder, white	100 % 8 % 8 % -	16 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
- - - - -	- - - - -	84 %



Asbestos and Environmental Analysis

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

<u>Client Sample ID:</u>	25570.006-0055		<u>Sample ID:</u>	S5		<u>Date Analyzed:</u>	08/15/2022		<u>Analyst:</u>	Ryan Talaski-Brown		
<u>Client Sample Description:</u>												
<u>Asbestos Mineral Fibers</u>	Layer	Percent:	Chrysotile	Amosite	Crocidolite							Percent Asbestos:
Layer 01												
hard vinyl, green	98 %	-	-	-	-							NAD
Layer 02												
thin mastic, brown	2 %	-	-	-	-							NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other							Matrix
Layer 01	-	-	-	-	-	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	-	-	-	-	-	100 %

<u>Client Sample ID:</u>	25570.006-0056		<u>Sample ID:</u>	S6		<u>Date Analyzed:</u>	08/15/2022		<u>Analyst:</u>	Ryan Talaski-Brown		
<u>Client Sample Description:</u>												
<u>Asbestos Mineral Fibers</u>	Layer	Percent:	Chrysotile	Amosite	Crocidolite							Percent Asbestos:
Layer 01												
fibrous cement, gray	75 %	8 %	-	-	-							8 %
Layer 02												
fibrous backing, brown	25 %	-	-	-	-							NAD
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other							Matrix
Layer 01	-	-	-	-	-	-	-	-	-	-	-	92 %
Layer 02	-	100 %	-	-	-	-	-	-	-	-	-	0 %

<u>Client Sample ID:</u>	25570.006-0057		<u>Sample ID:</u>	S7		<u>Date Analyzed:</u>	08/15/2022		<u>Analyst:</u>	Ryan Talaski-Brown		
<u>Client Sample Description:</u>												
<u>Asbestos Mineral Fibers</u>	Layer	Percent:	Chrysotile	Amosite	Crocidolite							Percent Asbestos:
Homogeneous												
hard compact powder, light gray	100 %	Trace	-	-	-							< 1 %
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other							Matrix
	-	-	-	-	-	-	-	-	-	-	-	100 %

Comments: A point-count is recommended for this sample.

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0058	Sample ID: S8	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose hard material, black/brown	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

Client Sample ID: 25570.006-0059	Sample ID: S9	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose particulate, brown/white/tan	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			85 %

Client Sample ID: 25570.006-0060	Sample ID: S10	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
coating, white	10 %	-	-
			NAD
Layer 02			
compressed fibrous material, tan/gray	90 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01			100 %
Layer 02		45 %	45 %
			10 %

Client Sample ID: 25570.006-0061	Sample ID: S11	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose particulate, off- white/pink/gray	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0062	Sample ID: S12	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose particulate, white/green/yellow	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

Client Sample ID: 25570.006-0063	Sample ID: S13	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
woven fibers with coating, tan	70 %	-	-
			NAD
Layer 02			
granular compact powder, off-white	30 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	5 %	75 %	-
Layer 02	-	5 %	-
			20 %
			95 %

Client Sample ID: 25570.006-0064	Sample ID: S14	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
vinyl, red/yellow/orange	82 %	-	-
			NAD
Layer 02			
mastic, brown	18 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	-	-
Layer 02	-	Trace	-
			100 %
			100 %

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0065	Sample ID: S15	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
fibrous powder with paint, gray/green	100 %	25 %	-
			25 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			75 %

Client Sample ID: 25570.006-0066	Sample ID: S16	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose granular powder, gray/off-white/blue	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

Client Sample ID: 25570.006-0067	Sample ID: S17	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Layer 01			
rubbery material, light gray	40 %	-	-
			NAD
Layer 02			
rubbery mastic material, off-white/tan	60 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01			100 %
Layer 02			100 %

Client Sample ID: 25570.006-0068	Sample ID: S18	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose mastic, tan/yellow	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			96 %

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0069	Sample ID: S19	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 vinyl, red	90 % - - -		NAD
Layer 02 thin coating with mastic, yellow/brown	10 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- 6 % - - -		94 %

Client Sample ID: 25570.006-0070	Sample ID: S20	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous loose particulate, gray/off-white	100 % 2 % - -		2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 3 % - - -		95 %

Client Sample ID: 25570.006-0071	Sample ID: S21	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous loose particulate, tan/brown	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 15 % - - -		85 %

Client Sample ID: 25570.006-0072	Sample ID: S22	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous loose granular powder, gray/off-white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Asbestos and Environmental Analysis

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0076	Sample ID: S26	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Layer 01			
hard vinyl, red	70 %	-	-
			NAD
Layer 02			
fine compact powder, off-white/tan	20 %	-	-
			NAD
Layer 03			
thin mastic, black	10 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
Layer 01	-	2 %	-
			98 %
Layer 02	-	2 %	-
			98 %
Layer 03	Trace	-	-
			100 %

Client Sample ID: 25570.006-0077	Sample ID: S27	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Homogeneous			
loose mastic particulate, green/brown	100 %	Trace	-
			< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
	Trace	2 %	-
			98 %

Client Sample ID: 25570.006-0078	Sample ID: S28	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
			Percent Asbestos:
Homogeneous			
compressed fibers, gray with paint, tan	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
	40 %	2 %	10 %
			48 %

Asbestos and Environmental Analysis

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0079	Sample ID: S29	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
hard compact powder, off-white/gray with coating, black	100 % 3 % - -		3 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- 2 % - Trace -		95 %

Client Sample ID: 25570.006-0080	Sample ID: S30	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
loose particulate, off- white/gray	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 25570.006-0081	Sample ID: S31	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
soft rubbery material, off- white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- Trace - - -		100 %

Client Sample ID: 25570.006-0082	Sample ID: S32	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous			
soft rubbery material, off- white	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Asbestos and Environmental Analysis

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0083	Sample ID: S33	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
Homogeneous			Percent Asbestos:
loose rubbery particulate, gray	100 %	-	-
			NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			100 %

Client Sample ID: 25570.006-0084	Sample ID: S34	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
Homogeneous			Percent Asbestos:
soft powdery material, brown/gray	100 %	3 %	-
			3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			97 %

Client Sample ID: 25570.006-0085	Sample ID: S35	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
Homogeneous			Percent Asbestos:
hard compact powder, off-white/gray	100 %	2 %	-
			2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			98 %

Client Sample ID: 25570.006-0086	Sample ID: S36	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Muhammad Rauch	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
			Crocidolite
Homogeneous			Percent Asbestos:
mastic, brown with coating, off-white	100 %	3 %	-
			3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			97 %

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0087	Sample ID: S37	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Muhammad Rauch
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous hard compact powder, off-white/green	100 % Trace - -	< 1 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix 100 %
	- Trace - - -	

Client Sample ID: 25570.006-0088	Sample ID: S38	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Muhammad Rauch
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Layer 01 hard compact powder, red	40 % - - -	NAD
Layer 02 granular compact powder, gray	60 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
Layer 01	- Trace - - -	100 %
Layer 02	- - - - -	100 %

Client Sample ID: 25570.006-0089	Sample ID: S39	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Muhammad Rauch
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous rubbery material, gray with coating, brown	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
	- Trace - - -	100 %

Client Sample ID: 25570.006-0090	Sample ID: S40	Date Analyzed: 08/15/2022
Client Sample Description:		Analyst: Tim Cammann
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite	Percent Asbestos:
Homogeneous granular powder, gray/red/brown	100 % - - -	NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other	Matrix
	- - - - -	100 %

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

Report Number: 222463R01
Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 Phase 0001

Project Notes:

Client Sample ID: 25570.006-0091	Sample ID: S41	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
compact powdery material, gray/brown	100 %	3 %	-
			3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			97 %

Client Sample ID: 25570.006-0092	Sample ID: S42	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
loose particulate, off-white/brown	100 %	2 %	-
			2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			98 %

Client Sample ID: 25570.006-0093	Sample ID: S43	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
compact powdery material, gray/white/brown	100 %	2 %	-
			2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			98 %

Client Sample ID: 25570.006-0094	Sample ID: S44	Date Analyzed: 08/15/2022	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite
		Crocidolite	Percent Asbestos:
Homogeneous			
soft compact powder, brown/gray	100 %	2 %	-
			2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool
			Synthetic
			Other
			Matrix
			92 %

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

Report Number: 222463R01

Report Date: 08/15/2022

Job Number: 222463

P.O. No: n/a

Project Name:

Project Number: 25570.006 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 \leq 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:


Muhammad Rauch
PLM Analyst

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



222463 1/34

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 25570.006 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: August 11, 2022

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

Alex Schuber
Name

[Signature]
Authorized Signature

8/11/22 1230
Date Time

RECEIVER

Date Received: 8/11/22

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

Maria Donagut
Name

[Signature] 8/11/22 1:35
Authorized Signature Date Time

Sender's ID No.	Brief Description	Receiver's ID No.
25570.006-0014 JY	_____	_____
25570.006-0017 JY	_____	_____
25570.006-0051	_____	_____
25570.006-0052	_____	_____
25570.006-0053	_____	_____
25570.006-0054	_____	_____
25570.006-0055	_____	_____
25570.006-0056	_____	_____
25570.006-0057	_____	_____
25570.006-0058	_____	_____
25570.006-0059	_____	_____
25570.006-0060	_____	_____
25570.006-0061	_____	_____
25570.006-0062	_____	_____



222463 3/4

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

25570.006-0088

25570.006-0089

25570.006-0090

25570.006-0091

25570.006-0092

25570.006-0093

25570.006-0094

Please analyze the enclosed 46 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:

72 Hour

SPECIAL INSTRUCTIONS:

John / BSW

LABORATORY REPORT

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

Attn: Alex Johnson
Phone: 503-248-1939

Email: alex.johnson@pbsusa.com

RJ Lee Group Job No.: PA120820220018
Samples Received: August 12, 2022
Report Date: August 17, 2022
Client Project: 25570.006 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		
LB25570.006-1001	PA120820220018-001	NP	Lead	0.312	3120	0.0121	121	8/15/2022	A
LB25570.006-1002	PA120820220018-002	NP	Lead	0.0161	161	0.00120	12.0	8/15/2022	A
LB25570.006-1003	PA120820220018-003	NP	Lead	0.645	6450	0.0159	159	8/15/2022	A
LB25570.006-1004	PA120820220018-004	NP	Lead	1.61	16100	0.123	1230	8/15/2022	A
LB25570.006-1005	PA120820220018-005	NP	Lead	0.394	3940	0.0115	115	8/15/2022	A
LB25570.006-1006	PA120820220018-006	NP	Lead	0.0108	108	0.00123	12.3	8/15/2022	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 of any of the above scopes of accreditations

E = Value above highest calibration standard

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

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

H = Holding times for preparation or analysis exceeded

B = Analyte detected in the associated Method Blank

S = Spike Recovery outside accepted limits

R = RPD (relative percent difference) outside accepted limits

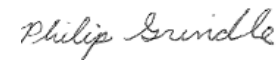
D = RL (reporting limit verification) outside accepted limits

NP = Not Provided

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

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

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



Philip Grindle
Laboratory Supervisor



PA120920220018

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 25570.006 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: August 11, 2022

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

RECEIVER

Date Received: 08/12/22 10:08 am

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

Alex Johnson
Name

Emily Vargo
Name

[Signature]
Authorized Signature

8/12/22
Date

[Signature]
Authorized Signature

08/12/22 10:08 am
Date

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows include LB25570.006-1001 through 1006.

ANALYSIS REQUESTED:

- LEAD: [x] Paint, [] Wipe, [] Soil/Misc., [] Air, [] TCLP

Please analyze the enclosed 6 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:

72 Hour

SPECIAL INSTRUCTIONS:

[Handwritten initials]

THIS IS TO CERTIFY THAT
JOE LUCAS
HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR REFRESHER

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

Course Date: 01/27/2022

Course Location: Online,

Certificate: IR-22-3527B



CCB #SRA0615 4-Hr Training

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

Expiration Date: 01/27/2023

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

A handwritten signature in black ink that reads "Andy Fridley".

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT
BRIAN WEHNER
HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
ASBESTOS INSPECTOR REFRESHER

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

Course Date: 01/27/2022

Course Location: Online,

Certificate: IR-22-7306B



CCB #SRA0615 4-Hr Training

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

Expiration Date: 01/27/2023

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

A handwritten signature in black ink that reads "Andy Fridley".

Andy Fridley, Instructor