

Asbestos Reinspection Report

Yamhill-Carlton High School

AHERA 3-Year Reinspection Report

275 N Maple Street

Yamhill, OR 97148

Prepared for:

Yamhill-Carlton School District



July 2023

Project No.: 27452.000 Phase No.: 0001 Task No.: 001

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The reinspection process under the AHERA rules states that a school building must be reinspected by an accredited inspector at least every three years. The results of the reinspection are reported in these documents.

LIST OF DOCUMENTS

Material Summary	Page 1.1
Updated Full Assessments	Page 2.1
Bulk Sample Information	Page 3.1
Certifications	Not Numbered

ACTIVITY DATES

10/10/2016 Management Plan Implementation Date*

06/29/2023 Reinspection End Date

06/29/2026 Next Reinspection Due

* Information provided by School District

Reinspection Summary: June 29, 2023

On June 29, 2023, PBS Engineering and Environmental Inc. (PBS) completed the Asbestos Hazard Emergency Response Act (AHERA) 3-Year Reinspection at the Yamhill-Carlton High School. The reinspection was completed in accordance with the requirements of 40 CFR, Part 763, Asbestos-Containing Materials in Schools; Final Rule and Notice.

The asbestos-containing vinyl floor tile and associated black mastic in various classrooms and hallways was observed in good condition. Continue to monitor the condition of this material.

The cement asbestos board panels in the locker rooms were observed in good condition. Continue to monitor the condition of this material.

Asbestos-containing pipe insulation and/or associated hard fittings were not observed during the inspection. Abatement of this material may have occurred.

All other known or suspected asbestos-containing materials were observed in good condition. These materials should continue to be maintained in the Yamhill-Carlton School District's AHERA Asbestos Management Plan.

SIGNATURES

Inspector

**Nathan
Carlson** Digitally signed by
Nathan Carlson
Date: 2023.07.26
10:14:43 -07'00'

Nate Carlson

Accreditation #: IRO-23-1775B

Management Planner

**Nathan
Carlson** Digitally signed by
Nathan Carlson
Date: 2023.07.26
10:14:53 -07'00'

Nate Carlson

Accreditation #: IRO-23-1775B

Material Summary: June 29, 2023

Known or suspected asbestos-containing building materials (ACBMs) are listed below in order of hazard priority. The priorities are established by the Accredited Inspector(s) and Accredited Management Planner(s), and are based on the assessments. A material may be listed more than once if its location varies and if the assessment criteria also dramatically changes.

1. MATERIAL Vinyl Floor Tile/Mastic
LOCATION Various classrooms and hallways
CATEGORY Moderate to Low Concern
Any remaining friable or suspected friable ACBM
2. MATERIAL Cement Asbestos Board
LOCATION Locker Room Ceilings
CATEGORY Low Concern
Non-friable suspected ACBM

Material Assessments: June 29, 2023

PRIORITY NO. 1

HOMOGENEOUS AREA Vinyl Floor Tile/Mastic

FUNCTIONAL SPACE Various classrooms and hallways

QUANTITY Not measured

DESCRIPTION

Manufactured floor tiles typically 9 inches by 9 inches or 12 inches by 12 inches, composed of a dense vinyl matrix that often contains asbestos and is adhered to the substrate with a mastic that often contains asbestos.

ADDITIONAL SAMPLES TAKEN: None

ASSESSMENT	AHERA CLASSIFICATION	Any remaining friable or suspected friable ACBM
	CONCERN CATEGORY	Moderate to Low Concern

CURRENT DAMAGE None

UNDAMAGED AREA Good

FRIABILITY Moderate to Low

ACCESSIBILITY Low Concealed by carpet

DAMAGE POTENTIAL Low

DAMAGE TYPE

DAMAGE CAUSE

DISCUSSION

AHERA Classification - ACBM with potential for damage.

RESPONSE ACTIONS

Preventative Measures Prior to Abatement

Recommended Abatement Action

Other Options

None suggested.

Material Assessments: June 29, 2023

PRIORITY NO. 2

HOMOGENEOUS AREA Cement Asbestos Board

FUNCTIONAL SPACE Locker Room Ceilings

QUANTITY Not measured

DESCRIPTION

Manufactured cementitious sheets with asbestos fibers bound into the material's matrix. The sheets were generally held in place with nails or screws.

ADDITIONAL SAMPLES TAKEN: None

ASSESSMENT AHERA CLASSIFICATION Non-friable suspected ACBM

CONCERN CATEGORY Low Concern

CURRENT DAMAGE None

UNDAMAGED AREA Good

FRIABILITY Low

ACCESSIBILITY Moderate to Low Elevated ceiling

DAMAGE POTENTIAL Low

DAMAGE TYPE

DAMAGE CAUSE

DISCUSSION

AHERA Classification - ACBM with potential for damage.

RESPONSE ACTIONS

Preventative Measures Prior to Abatement

Recommended Abatement Action

Other Options

None suggested.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0050	Vinyl Floor Tile/Mastic	HS, room 138; vinyl floor tile, beige, mastic, black, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, gray/tan	No Asbestos Detected	
	Layer 02	woven fibers with mastic, tan/brown	No Asbestos Detected	
27452.000-0051	Wall and Ceiling Plaster	HS, room 138; plaster wall, gray		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	granular compact powder, gray	No Asbestos Detected	
27452.000-0052	Vinyl Floor Tile/Mastic	HS, 2nd floor, south hall; vinyl floor tile, gray, mastic, black, on wood, under carpet		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, tan	3% Chrysotile	
	Layer 02	fibrous mastic material, black, with wood, fibers, tan	<1% Chrysotile	
27452.000-0053	Covebase/Mastic	HS, 2nd floor, south hall; covebase, 4", black, mastic, brown		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black/gray	No Asbestos Detected	
	Layer 02	rubbery material, black	No Asbestos Detected	
	Layer 03	mastic material, brown/off-white/green	No Asbestos Detected	
27452.000-0054	Lay-in Ceiling Tile	HS, 2nd floor, south hall; lay-in ceiling tile, 2'x4', nicks and pinholes		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibrous material, tan/gray	No Asbestos Detected	
27452.000-0055	Sink Undercoating	HS, work room 131; sink undercoating, gray		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose mastic material, gray	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0056	Vinyl Floor Tile/Mastic	HS, main office; vinyl floor tile, gray, mastic, black, on wood, under carpet		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	mastic, tan	No Asbestos Detected	
	Layer 02	vinyl, gray/blue	No Asbestos Detected	
	Layer 03	woven fibers with mastic, tan/gray	No Asbestos Detected	
27452.000-0057	Sheet Floor Covering	HS, main office bathroom; sheet floor, tan pebble, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, off-white/tan	No Asbestos Detected	
	Layer 02	fibrous backing, gray/off-white	No Asbestos Detected	
27452.000-0058	Vinyl Floor Tile/Mastic	HS, 2nd floor, north hall; vinyl floor tile, gray, mastic, black, on wood, under carpet		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	mastic, tan/orange	No Asbestos Detected	
	Layer 02	vinyl, tan	3% Chrysotile	
	Layer 03	fibrous mastic material, black	No Asbestos Detected	
27452.000-0059	Covebase/Mastic	HS, room 102; covebase, 4", blue, mastic, white		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, blue/green	No Asbestos Detected	
	Layer 02	mastic, off-white, with wood fibers, tan	No Asbestos Detected	
27452.000-0060	Wall and Ceiling Plaster	HS, 2nd floor, north hall; plaster wall, gray		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose particulate, gray/off-white/green	No Asbestos Detected	
27452.000-0061	Lay-in Ceiling Tile	HS, 2nd floor, north hall; lay-in ceiling tile, 2'x4', nicks and pinholes		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibrous material, tan/gray	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0062	Sheet Floor Covering	HS, 2nd floor, men's restroom; sheet floor, blue pebble, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, off-white/gray/black	No Asbestos Detected	
	Layer 02	fibrous backing, gray/tan	No Asbestos Detected	
27452.000-0063	Gypsum Wallboard/Joint Compound	HS, 2nd floor, hallway junction; gypsum wallboard, joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	
27452.000-0064	Mastic	HS, room 116; carpet mastic, yellow, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	mastic, orange/tan, with wood, tan	No Asbestos Detected	
27452.000-0065	Sheet Floor Covering	HS, 2nd floor, east hall custodial; sheet floor, gray, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, off-white/gray	No Asbestos Detected	
	Layer 02	fibrous backing, gray	No Asbestos Detected	
27452.000-0066	Gypsum Wallboard/Joint Compound	HS, 2nd floor, east hall; gypsum wallboard, joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	
27452.000-0067	Glued-on Ceiling Tile/Mastic	HS, room 142; glued-on ceiling tile, 12"x12", holes, mastic, brown		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibers, off-white	<1% Amosite	
	Layer 03	mastic, brown	No Asbestos Detected	
27452.000-0068	Lab Counter Top	HS, room 142; lab counter top, black		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	hard compact material, brown	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0069	Vinyl Floor Tile/Mastic	HS, 2nd floor, east hall; vinyl floor tile, 16"x16", red, soft, mastic, yellow, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, red/orange	No Asbestos Detected	
	Layer 02	powdery backing material, gray/tan	No Asbestos Detected	
	Layer 03	woven fibers, off-white	No Asbestos Detected	
	Layer 04	wood, tan, with soft mastic material, clear	No Asbestos Detected	
27452.000-0070	Mastic	HS, 3rd floor, hallway; carpet mastic, yellow, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	wood fibers, tan	No Asbestos Detected	
27452.000-0071	Gypsum Wallboard/Joint Compound	HS, 3rd floor, hallway; gypsum wallboard, joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	thin powder, white/off-white	No Asbestos Detected	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	
27452.000-0072	Lay-in Ceiling Tile	HS, 3rd floor, hallway; lay-in ceiling tile, 2'x2', coarse		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	
27452.000-0073	Sheet Floor Covering	HS, 3rd floor, men's restroom; gray and beige sheet floor, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, tan/gray/black	No Asbestos Detected	
	Layer 02	fibrous backing, gray, with thin mastic, tan	No Asbestos Detected	
27452.000-0074	Vinyl Floor Tile/Mastic	HS, 3rd floor, room 315; vinyl floor tile, 12"x12", blue, mastic, yellow, on wood		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	vinyl, blue/gray, with thin mastic, yellow/clear	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0075	Covebase/Mastic	HS, 3rd floor, room 315; covebase, 4", blue, mastic, yellow		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, blue	No Asbestos Detected	
	Layer 02	mastic, yellow/off-white, with thin coating, off-white	No Asbestos Detected	
27452.000-0076	Sink Undercoating	HS, 3rd floor, room 315; sink undercoating, gray		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose mastic material, gray	No Asbestos Detected	
27452.000-0077	Vinyl Floor Tile/Mastic	HS, 1st floor, hallway; vinyl floor tile, black, mastic, black, on concrete, under carpet		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	vinyl material, black, with thin mastic, tan	No Asbestos Detected	
27452.000-0078	Covebase/Mastic	HS, 1st floor, hallway; covebase, 4", black, mastic, yellow		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, black/gray	No Asbestos Detected	
	Layer 02	mastic, tan/black	No Asbestos Detected	
27452.000-0079	Gypsum Wallboard/Joint Compound	HS, 1st floor, hallway; gypsum wallboard, joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	
27452.000-0080	Lay-in Ceiling Tile	HS, 1st floor, hallway; lay-in ceiling tile, 2'x4', nicks and pinholes		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	compressed fibers, gray	No Asbestos Detected	
27452.000-0081	Vinyl Floor Tile/Mastic	HS, 1st floor, classroom 07; vinyl floor tile, blue, mastic, yellow, vinyl floor tile, mastic, black, on concrete, under carpet		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	mastic, tan	No Asbestos Detected	
	Layer 02	hard vinyl, blue	No Asbestos Detected	
	Layer 03	mastic, tan	No Asbestos Detected	
	Layer 04	hard vinyl, tan	3% Chrysotile	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0082	Caulk	HS, 1st floor, classroom 07; HVAC caulk, gray		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	rubbery material, gray	No Asbestos Detected	
27452.000-0083	Mechanical Isolation Cloth	HS, 1st floor, classroom 07; mechanical isolation cloth, black		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	thin flexible material, black	No Asbestos Detected	
27452.000-0084	Vinyl Floor Tile/Mastic	HS, 1st floor, room; vinyl floor tile, 12"x12", blue, mastic, yellow, on concrete		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	hard vinyl, gray	No Asbestos Detected	
	Layer 02	mastic, yellow	No Asbestos Detected	
27452.000-0085	Vinyl Floor Tile/Mastic	Gym building, lobby; vinyl floor tile, 9"x9", beige, mastic, black, on concrete		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	hard vinyl, tan	4% Chrysotile	
	Layer 02	mastic, black	3% Chrysotile	
27452.000-0086	Covebase/Mastic	Gym building, lobby; covebase, 4", black, mastic, brown		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	paint, orange/red	No Asbestos Detected	
	Layer 02	rubbery material, brown	No Asbestos Detected	
	Layer 03	mastic, brown	<1% Anthophyllite	
27452.000-0087	Gypsum Wallboard/Joint Compound	Gym building, mech. Room; gypsum wallboard, joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	fine compact powder, off-white	2% Chrysotile	
	Layer 02	compact chalky material with paper, white	No Asbestos Detected	
27452.000-0088	Glued-on Ceiling Tile/Mastic	Gym building, lobby; glued-on ceiling tile, 12"x12", holes, mastic, brown		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibers, light gray	<1% Amosite	
	Layer 03	mastic, brown	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0089	Cement Asbestos Board	Gym building, locker rooms; cement asbestos board, gray		Eurofins LabCor PDX
	Layer: Layer 1	Description: fibrous cement, gray	Analysis: 12% Chrysotile	



Lab/Cor Portland, Inc.

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

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

PLM - Visual Estimate Extended Final Report

Job Number: 231757

Client: PBS Engineering and Environmental

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

Project Name: 27452.000 Phase 0001

Project No.:

PO Number:

Sub Project:

Reference No.:

Report Number: 231757R01

Report Date: 7/6/2023

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:
231757 - S1	27452.000-0050 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S2	27452.000-0051 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S3	27452.000-0052 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S4	27452.000-0053 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S5	27452.000-0054 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S6	27452.000-0055 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S7	27452.000-0056 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S8	27452.000-0057 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S9	27452.000-0058 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S10	27452.000-0059 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S11	27452.000-0060 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S12	27452.000-0061 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S13	27452.000-0062 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S14	27452.000-0063 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S15	27452.000-0064 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S16	27452.000-0065 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S17	27452.000-0066 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S18	27452.000-0067 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S19	27452.000-0068 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S20	27452.000-0069 -	PLM - Visual Estimate Extended		6/30/2023
231757 - S21	27452.000-0070 -	PLM - Visual Estimate Extended		6/30/2023



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PLM - Visual Estimate Extended Final Report

Job Number: 231757

Client: PBS Engineering and Environmental

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231757 - S22	27452.000-0071 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S23	27452.000-0072 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S24	27452.000-0073 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S25	27452.000-0074 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S26	27452.000-0075 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S27	27452.000-0076 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S28	27452.000-0077 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S29	27452.000-0078 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S30	27452.000-0079 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S31	27452.000-0080 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S32	27452.000-0081 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S33	27452.000-0082 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S34	27452.000-0083 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S35	27452.000-0084 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S36	27452.000-0085 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S37	27452.000-0086 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S38	27452.000-0087 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S39	27452.000-0088 -	PLM - Visual Estimate Extended	6/30/2023
231757 - S40	27452.000-0089 -	PLM - Visual Estimate Extended	6/30/2023



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PLM - Visual Estimate Extended Final Report

Job Number: 231757

Client: PBS Engineering and Environmental

Project Name: 27452.000 Phase 0001

Report Number: 231757R01

Report Date: 7/6/2023

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

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

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

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

Additional gravimetric, point-count or TEM analysis may be recommended for samples testing at $\leq 1\%$ 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: $>0\text{-}3\%$ error,
5% asbestos: $1\text{-}9\%$ error,
10% asbestos: $5\text{-}15\%$ error,
20% asbestos: $10\text{-}30\%$ error.

Sincerely,



Ryan Talaski-Brown
Eurofins - LabCor Portland

BULK SAMPLE ASBESTOS ANALYSIS

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

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0050		Sample ID: S1			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl, gray/tan	80 %	-	-	-	NAD	
Layer 02						
woven fibers with mastic, tan/brown	20 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	35 %	-	-	-	65 %
Layer 02	-	65 %	-	-	-	35 %

Client Sample ID: 27452.000-0051		Sample ID: S2			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
granular compact powder, gray	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 27452.000-0052		Sample ID: S3			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl, tan	75 %	3 %	-	-	3 %	
Layer 02						
fibrous mastic material, black, with wood, fibers, tan	25 %	Trace	-	-	< 1 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	97 %
Layer 02	-	5 %	-	-	-	95 %

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

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0053		Sample ID: S4			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black/gray	80 %	-	-	-		NAD
Layer 02						
rubbery material, black	10 %	-	-	-		NAD
Layer 03						
mastic material, brown/off-white/green	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	5 %	-	2 %	-	93 %

Client Sample ID: 27452.000-0054		Sample ID: S5			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
coating, white	8 %	-	-	-		NAD
Layer 02						
compressed fibrous material, tan/gray	92 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	60 %	5 %	-	-	35 %

Client Sample ID: 27452.000-0055		Sample ID: S6			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose mastic material, gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	25 %	-	-	-	75 %

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4412 S Corbett Avenue
Portland, OR 97239**Report Number:** 231757R01**Report Date:** 07/06/2023**Job Number:** 231757**P.O. No:** n/a**Project Name:** 27452.000 Phase 0001**Project Number:****Project Notes:**

Client Sample ID: 27452.000-0056		Sample ID: S7			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan	15 %	-	-	-		NAD
Layer 02						
vinyl, gray/blue	75 %	-	-	-		NAD
Layer 03						
woven fibers with mastic, tan/gray	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	Trace	-	100 %
Layer 02	-	50 %	-	-	-	50 %
Layer 03	-	-	-	70 %	-	30 %

Client Sample ID: 27452.000-0057		Sample ID: S8			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
vinyl, off-white/tan	80 %	-	-	-		NAD
Layer 02						
fibrous backing, gray/off-white	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	5 %	-	-	-	95 %
Layer 02	-	50 %	-	10 %	-	40 %

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4412 S Corbett Avenue
Portland, OR 97239**Report Number:** 231757R01**Report Date:** 07/06/2023**Job Number:** 231757**P.O. No:** n/a**Project Name:** 27452.000 Phase 0001**Project Number:****Project Notes:**

Client Sample ID: 27452.000-0058		Sample ID: S9			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan/orange	15 %	-	-	-		NAD
Layer 02						
vinyl, tan	65 %	3 %	-	-		3 %
Layer 03						
fibrous mastic material, black	20 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	2 %	-	96 %
Layer 02	-	-	-	-	-	97 %
Layer 03	-	40 %	-	-	-	60 %

Client Sample ID: 27452.000-0059		Sample ID: S10			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, blue/green	90 %	-	-	-		NAD
Layer 02						
mastic, off-white, with wood fibers, tan	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	95 %

Client Sample ID: 27452.000-0060		Sample ID: S11			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose particulate, gray/off-white/green	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	100 %

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4412 S Corbett Avenue
Portland, OR 97239**Report Number:** 231757R01**Report Date:** 07/06/2023**Job Number:** 231757**P.O. No:** n/a**Project Name:** 27452.000 Phase 0001**Project Number:****Project Notes:**

Client Sample ID: 27452.000-0061		Sample ID: S12			Date Analyzed: 07/06/2023	
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	Trace	Trace	-	-	-	100 %
Layer 02	5 %	65 %	-	-	-	30 %

Client Sample ID: 27452.000-0062		Sample ID: S13			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
vinyl, off-white/gray/black	70 %	-	-	-		NAD
Layer 02						
fibrous backing, gray/tan	30 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	70 %	-	-	-	30 %

Client Sample ID: 27452.000-0063		Sample ID: S14			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	2 %	-	-	-	98 %

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

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0064		Sample ID: S15			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
mastic, orange/tan, with wood, tan	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	30 %	-	-	-	70 %
Client Sample ID: 27452.000-0065		Sample ID: S16			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl, off-white/gray	60 %	-	-	-	NAD	
Layer 02						
fibrous backing, gray	40 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	65 %	-	-	-	35 %
Client Sample ID: 27452.000-0066		Sample ID: S17			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	2 %	-	-	-	98 %

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4412 S Corbett Avenue
Portland, OR 97239**Report Number:** 231757R01**Report Date:** 07/06/2023**Job Number:** 231757**P.O. No:** n/a**Project Name:** 27452.000 Phase 0001**Project Number:****Project Notes:**

Client Sample ID: 27452.000-0067		Sample ID: S18			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
coating, white	5 %	-	-	-		NAD
Layer 02						
compressed fibers, off-white	45 %	-	Trace	-		< 1 %
Layer 03						
mastic, brown	50 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	50 %	-	-	50 %
Layer 03	-	Trace	5 %	-	-	95 %

Client Sample ID: 27452.000-0068		Sample ID: S19			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
hard compact material, brown	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	2 %	Trace	-	-	-	98 %

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

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0069		Sample ID: S20			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
vinyl, red/orange	60 %	-	-	-		NAD
Layer 02						
powdery backing material, gray/tan	20 %	-	-	-		NAD
Layer 03						
woven fibers, off-white	10 %	-	-	-		NAD
Layer 04						
wood, tan, with soft mastic material, clear	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	25 %	-	-	-	75 %
Layer 02	-	10 %	-	-	-	90 %
Layer 03	100 %	-	-	-	-	0 %
Layer 04	-	40 %	-	-	-	60 %

Client Sample ID: 27452.000-0070		Sample ID: S21			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
wood fibers, tan	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	98 %	-	-	-	2 %

Client Sample ID: 27452.000-0071		Sample ID: S22			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
thin powder, white/off-white	15 %	-	-	-		NAD
Layer 02						
compact chalky material with paper, white	85 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	-	-	100 %
Layer 02	Trace	3 %	-	-	-	97 %

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4412 S Corbett Avenue
Portland, OR 97239**Report Number:** 231757R01**Report Date:** 07/06/2023**Job Number:** 231757**P.O. No:** n/a**Project Name:** 27452.000 Phase 0001**Project Number:****Project Notes:**

Client Sample ID: 27452.000-0072		Sample ID: S23			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
coating, white	15 %	-	-	-		NAD
Layer 02						
compact chalky material with paper, white	85 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	98 %

Client Sample ID: 27452.000-0073		Sample ID: S24			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
vinyl, tan/gray/black	60 %	-	-	-		NAD
Layer 02						
fibrous backing, gray, with thin mastic, tan	40 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	70 %	-	-	-	30 %

Client Sample ID: 27452.000-0074		Sample ID: S25			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
vinyl, blue/gray, with thin mastic, yellow/clear	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	2 %	-	-	-	98 %

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

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0075		Sample ID: S26			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, blue	85 %	-	-	-		NAD
Layer 02						
mastic, yellow/off-white, with thin coating, off- white	15 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	100 %

Client Sample ID: 27452.000-0076		Sample ID: S27			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose mastic material, gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	30 %	-	-	-	70 %

Client Sample ID: 27452.000-0077		Sample ID: S28			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
vinyl material, black, with thin mastic, tan	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	5 %	-	-	-	95 %

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4412 S Corbett Avenue
Portland, OR 97239**Report Number:** 231757R01**Report Date:** 07/06/2023**Job Number:** 231757**P.O. No:** n/a**Project Name:** 27452.000 Phase 0001**Project Number:****Project Notes:**

Client Sample ID: 27452.000-0078		Sample ID: S29			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black/gray	86 %	-	-	-		NAD
Layer 02						
mastic, tan/black	14 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	Trace	-	100 %

Client Sample ID: 27452.000-0079		Sample ID: S30			Date Analyzed: 07/05/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compact chalky material with paper, white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	Trace	3 %	-	-	-	97 %

Client Sample ID: 27452.000-0080		Sample ID: S31			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
compressed fibers, gray	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	5 %	60 %	-	-	-	35 %

Client: PBS Engineering and Environmental
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Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0081		Sample ID: S32			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan	8 %	-	-	-		NAD
Layer 02						
hard vinyl, blue	60 %	-	-	-		NAD
Layer 03						
mastic, tan	5 %	-	-	-		NAD
Layer 04						
hard vinyl, tan	27 %	3 %	-	-		3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	97 %

Client Sample ID: 27452.000-0082		Sample ID: S33			Date Analyzed: 07/06/2023	
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 %

Client Sample ID: 27452.000-0083		Sample ID: S34			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
thin flexible material, black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	10 %	-	90 %

Client: PBS Engineering and Environmental
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Portland, OR 97239

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0084		Sample ID: S35			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, gray	92 %	-	-	-	NAD	
Layer 02						
mastic, yellow	8 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27452.000-0085		Sample ID: S36			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
hard vinyl, tan	96 %	4 %	-	-	4 %	
Layer 02						
mastic, black	4 %	3 %	-	-	3 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	96 %
Layer 02	-	-	-	-	-	97 %

Client Sample ID: 27452.000-0086		Sample ID: S37			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
paint, orange/red	15 %	-	-	-	NAD	
Layer 02						
rubbery material, brown	84 %	-	-	-	NAD	
Layer 03						
mastic, brown	1 %	-	-	-	Anthophyllite- Trace	< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	Talc 2 %	98 %

Client: PBS Engineering and Environmental
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Portland, OR 97239

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

Client Sample ID: 27452.000-0087		Sample ID: S38			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
fine compact powder, off-white		1 %	2 %	-	-	2 %
Layer 02						
compact chalky material with paper, white		99 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	-
Layer 02		-	-	-	-	-
						Matrix
						98 %
						100 %
Comments: All of layer 01 was utilized for analysis. No further analysis can be performed.						

Client Sample ID: 27452.000-0088		Sample ID: S39			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
coating, white		15 %	-	-	-	NAD
Layer 02						
compressed fibers, light gray		70 %	-	Trace	-	< 1 %
Layer 03						
mastic, brown		15 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	-
Layer 02		45 %	2 %	45 %	-	-
Layer 03		-	-	-	-	-
						Matrix
						100 %
						8 %
						100 %

Client Sample ID: 27452.000-0089		Sample ID: S40			Date Analyzed: 07/06/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous						
fibrous cement, gray		100 %	12 %	-	-	12 %
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
		-	-	-	-	-
						Matrix
						88 %

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

Report Number: 231757R01

Report Date: 07/06/2023

Job Number: 231757

P.O. No: n/a

Project Name: 27452.000 Phase 0001

Project Number:

Project Notes:

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

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

Reviewed by:

Ryan Talaski-Brown

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



231757 1/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 27452.000 Phase 0001

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

SENDER

Date Sent: June 30, 2023

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

Name

Authorized Signature

Date

Time

Sender's ID No.

Brief Description

27452.000-0050

27452.000-0051

27452.000-0052

27452.000-0053

27452.000-0054

27452.000-0055

27452.000-0056

27452.000-0057

27452.000-0058

27452.000-0059

27452.000-0060

27452.000-0061

27452.000-0062

27452.000-0063

RECEIVER

Date Received:

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

Name

Authorized Signature

Date

Time

Receiver's ID No.



231757^{2/3}

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27452.000-0064		
27452.000-0065		
27452.000-0066		
27452.000-0067		
27452.000-0068		
27452.000-0069		
27452.000-0070		
27452.000-0071		
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27452.000-0087		
27452.000-0088		



231757 3/3

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27452.000-0089

Please analyze the enclosed 40 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:

24

THIS IS TO CERTIFY THAT

NATHAN CARLSON

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ONLINE AHERA ASBESTOS INSPECTOR REFRESHER

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

Course Date: 01/24/2023

Course Location: Online

Certificate: IRO-23-1775B



CCB #SRA0615 4-Hr Training

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

Expiration Date: 01/24/2024

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

503-248-1939

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

Andy Fridley, Instructor