

Asbestos Reinspection Report

Yamhill-Carlton School District Office

AHERA 3-Year Reinspection Report

120 N Larch Place
Yamhill, OR 97148

Prepared for:

Yamhill-Carlton School District



July 2023

Project No.: 27452.000 Phase No.: 0001 Task No.: 004

4412 S Corbett Avenue, Portland, OR 97239

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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

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Updated Stock Assessments	Page 3.1
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Certifications	Not Numbered

ACTIVITY DATES

10/10/2016 Management Plan Implementation Date*

06/28/2023 Reinspection End Date

06/28/2026 Next Reinspection Due

* Information provided by School District

Reinspection Summary: June 28, 2023

On June 28, 2023, PBS Engineering and Environmental Inc. (PBS) completed the Asbestos Hazard Emergency Response Act (AHERA) 3-Year Reinspection at the Yamhill-Carlton School District Office. 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 tan sheet floor covering remains in good condition. Continue monitoring the condition of this material.

Suspect, non-friable asbestos-containing molding mastic remains in good condition. Continue monitoring the condition of this material.

The glued-on ceiling tiles and associated mastic in the district office tested negative. Please remove this material from the AHERA Management Plan.

All other known or suspected asbestos-containing 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
10:17:02 -07'00'

Nate Carlson

Accreditation #: IRO-23-1775B

Management Planner

**Nathan
Carlson**
Digitally signed by
Nathan Carlson
Date: 2023.07.26
10:17:14 -07'00'

Nate Carlson

Accreditation #: IRO-23-1775B

Material Summary: June 28, 2023

Known or suspected asbestos-containing building materials 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 Sheet Floor Covering
LOCATION Throughout
CATEGORY Low Concern
 Non-friable suspected ACBM

2. MATERIAL Molding Mastic
LOCATION Throughout the building
CATEGORY AHERA Classification - Non-friable ACBM.
 Miscellaneous Non-friable ACBM or Assumed ACBM

Material Assessments: June 28, 2023

PRIORITY NO. 1

HOMOGENEOUS AREA Sheet Floor Covering

FUNCTIONAL SPACE Throughout

QUANTITY Not measured

DESCRIPTION

Vinyl floor covering manufactured as a sheet product and installed with a minimum of seams. The sheeting generally contains a paper or felt backing that typically contains asbestos.

ADDITIONAL SAMPLES TAKEN: None

ASSESSMENT AHERA CLASSIFICATION Non-friable suspected ACBM

CONCERN CATEGORY Low Concern

CURRENT DAMAGE None

UNDAMAGED AREA Good

FRIABILITY Low

ACCESSIBILITY Low Covered by carpet in most locations

DAMAGE POTENTIAL Low

DAMAGE TYPE

DAMAGE CAUSE

DISCUSSION

AHERA Classification - Non-friable ACBM.

RESPONSE ACTIONS

Preventative Measures Prior to Abatement

Recommended Abatement Action

Other Options

None suggested.

Material Assessments: June 28, 2023

MATERIAL	Molding Mastic
FUNCTIONAL SPACE	Throughout the building

DESCRIPTION

Adhesive used to attach building materials to a substrate such as floor tiles to a subfloor material.

SAMPLE RESULTS	ASSUMED POSITIVE
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ASSESSMENT	AHERA Classification - Non-friable ACBM.
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Mastic may adhere vinyl floor tiles, rubber base and other items to the appropriate surface. Consequently, the mastic is not accessible. When removing materials and the mastic below, the mastic may become very friable and full or modified isolation may be required. At a minimum, establish an Operations and Maintenance Program.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
27452.000-0044	Sheet Floor Covering	District office, south offices; sheet floor, tan pebble, on concrete, under carpet		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	vinyl, off-white/tan	No Asbestos Detected	
	Layer 02	fibrous material, off-white/gray	60% Chrysotile	
27452.000-0045	Covebase/Mastic	District office, south offices; covebase, 4", gray, mastic, white		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	rubbery material, gray	No Asbestos Detected	
	Layer 02	mastic, off-white, with thin powder, white	No Asbestos Detected	
27452.000-0046	Gypsum Wallboard/Joint Compound	District office, south offices; gypsum wallboard, joint compound		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	fine compact powder with paint, off-white/white	No Asbestos Detected	
	Layer 02	woven fibers, off-white	No Asbestos Detected	
	Layer 03	loose chalky material with paper, off-white	No Asbestos Detected	
27452.000-0047	Glued-on Ceiling Tile/Mastic	District office, south offices; glued-on ceiling tile, 12"x12", coarse, mastic, brown		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 01	coating, white	No Asbestos Detected	
	Layer 02	compressed fibrous material, tan/gray	No Asbestos Detected	
	Layer 03	mastic, brown	<1% Chrysotile	
27452.000-0048	Sink Undercoating	District office, south offices; sink undercoating, black		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	loose particulate, black	2% Chrysotile	
27452.000-0049	Caulk	District office, south offices; exterior window caulk, gray		Eurofins LabCor PDX
	Layer:	Description:	Analysis:	
	Layer 1	soft rubbery material, black	No Asbestos Detected	

PLM - Visual Estimate Extended Final Report

Job Number: 231733
Client: PBS Engineering and Environmental
**Address: 4412 S Corbett Avenue
Portland, OR 97239**
Project Name:
Project No.: 27452.000 Phase 0001
PO Number:
Sub Project:
Reference No.:
Report Number: 231733R01
Report Date: 7/3/2023

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:
231733 - S1	27452.000-0001 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S2	27452.000-0002 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S3	27452.000-0003 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S4	27452.000-0004 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S5	27452.000-0005 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S6	27452.000-0006 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S7	27452.000-0007 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S8	27452.000-0008 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S9	27452.000-0009 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S10	27452.000-0010 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S11	27452.000-0011 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S12	27452.000-0012 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S13	27452.000-0013 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S14	27452.000-0014 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S15	27452.000-0015 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S16	27452.000-0016 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S17	27452.000-0017 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S18	27452.000-0018 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S19	27452.000-0019 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S20	27452.000-0020 -	PLM - Visual Estimate Extended		6/28/2023
231733 - S21	27452.000-0021 -	PLM - Visual Estimate Extended		6/28/2023



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: 231733

Client: PBS Engineering and Environmental

Report Number: 231733R01

Report Date: 7/3/2023

Project Name:

231733 - S22	27452.000-0022 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S23	27452.000-0023 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S24	27452.000-0024 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S25	27452.000-0025 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S26	27452.000-0026 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S27	27452.000-0027 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S28	27452.000-0028 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S29	27452.000-0029 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S30	27452.000-0030 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S31	27452.000-0031 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S32	27452.000-0032 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S33	27452.000-0033 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S34	27452.000-0034 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S35	27452.000-0035 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S36	27452.000-0036 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S37	27452.000-0037 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S38	27452.000-0038 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S39	27452.000-0039 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S40	27452.000-0040 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S41	27452.000-0041 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S42	27452.000-0042 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S43	27452.000-0043 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S44	27452.000-0044 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S45	27452.000-0045 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S46	27452.000-0046 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S47	27452.000-0047 -	PLM - Visual Estimate Extended	6/28/2023



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PLM - Visual Estimate Extended Final Report

Job Number: 231733

Client: PBS Engineering and Environmental

Report Number: 231733R01

Report Date: 7/3/2023

Project Name:

231733 - S48	27452.000-0048 -	PLM - Visual Estimate Extended	6/28/2023
231733 - S49	27452.000-0049 -	PLM - Visual Estimate Extended	6/28/2023

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 < 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,



Mia Gaines
Eurofins - LabCor Portland

BULK SAMPLE ASBESTOS ANALYSIS

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

Report Number: 231733R01
Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0001		Sample ID: S1			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
hard vinyl, green		92 %	4 %	-	-	4 %
Layer 02						
mastic, black		8 %	2 %	-	-	2 %
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	-
Layer 02		-	-	-	-	-
						Matrix
						96 %
						98 %
Client Sample ID: 27452.000-0002		Sample ID: S2			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
rubbery material, brown		90 %	-	-	-	NAD
Layer 02						
mastic, white with fibrous backing, gray		5 %	-	-	-	NAD
Layer 03						
loose mastic, brown		5 %	-	-	-	Anthophyllite- Trace
						< 1 %
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	-
Layer 02		-	-	-	-	-
Layer 03		-	-	-	-	-
						Matrix
						100 %
						100 %
						96 %
Client Sample ID: 27452.000-0003		Sample ID: S3			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
paint, blue with thin powder, white		20 %	-	-	-	NAD
Layer 02						
compact chalky material with paper, white		80 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	-
Layer 02		-	-	-	-	-
						Matrix
						100 %
						100 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0004		Sample ID: S4		Date Analyzed: 07/03/2023	
Client Sample Description:				Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
coating, white	8 %	-	-	-	NAD
Layer 02					
compressed fibers, brown	25 %	-	-	-	NAD
Layer 03					
textured coating, white	7 %	-	-	-	NAD
Layer 04					
mastic, brown	60 %	-	-	-	Anthophyllite- Trace < 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	-	100 %	-	-	-
Layer 03	-	-	-	-	-
Layer 04	-	-	-	-	-
				Talc	3 %
				Wollastonite	Trace
					97 %

Client Sample ID: 27452.000-0005		Sample ID: S5		Date Analyzed: 07/03/2023	
Client Sample Description:				Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, black	100 %	4 %	-	-	4 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	-
					Matrix
					96 %

Client Sample ID: 27452.000-0006		Sample ID: S6		Date Analyzed: 07/03/2023	
Client Sample Description:				Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
coating, white	8 %	-	-	-	NAD
Layer 02					
compressed fibers, gray	92 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	8 %	50 %	8 %	-	-
					Matrix
					100 %
					34 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0007		Sample ID: S7			Date Analyzed: 07/03/2023	
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, gray/brown	35 %	-	-	-		NAD
Layer 03						
mastic, brown	50 %	-	-	-	Anthophyllite- Trace	< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	10 %	40 %	10 %	-	-	40 %
Layer 03	-	-	-	-	Talc 4 %	96 %

Client Sample ID: 27452.000-0008		Sample ID: S8			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan	25 %	-	-	-		NAD
Layer 02						
hard vinyl, green with thin mastic, black	70 %	4 %	-	-		4 %
Layer 03						
hard compact powder, gray	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	96 %
Layer 03	-	-	-	-	-	100 %

Comments: Black mastic in layer 02 is too thin for separate analysis.

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0009		Sample ID: S9		Date Analyzed: 07/03/2023	
Client Sample Description:				Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
formica material, brown	95 %	-	-	-	NAD
Layer 02					
mastic, clear tan	5 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	-	-	-	-	-
					Matrix
					100 %
					100 %

Client Sample ID: 27452.000-0010		Sample ID: S10		Date Analyzed: 07/03/2023	
Client Sample Description:				Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose fine powder, black	100 %	3 %	-	-	3 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
	-	-	-	-	-
					Matrix
					97 %

Client Sample ID: 27452.000-0011		Sample ID: S11		Date Analyzed: 07/03/2023	
Client Sample Description:				Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
foam, black	12 %	-	-	-	NAD
Layer 02					
mastic, white/tan	8 %	-	-	-	NAD
Layer 03					
hard compact powder, gray with thin mastic, black	80 %	Trace	-	-	< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01	-	-	-	-	-
Layer 02	-	-	-	-	-
Layer 03	-	8 %	-	-	-
					Matrix
					100 %
					100 %
					92 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0012		Sample ID: S12			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, clear/tan	9 %	-	-	-		NAD
Layer 02						
vinyl, black	45 %	-	-	-		NAD
Layer 03						
woven fibers, white	5 %	-	-	-		NAD
Layer 04						
hard compact powder, gray	40 %	-	-	-		NAD
Layer 05						
mastic, black	1 %	4 %	-	-		4 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	15 %	-	-	-	85 %
Layer 03	-	-	-	100 %	-	0 %
Layer 04	-	-	-	-	-	100 %
Layer 05	-	-	-	-	-	96 %

Client Sample ID: 27452.000-0013		Sample ID: S13			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, tan	15 %	-	-	-		NAD
Layer 02						
hard vinyl, gray	79 %	3 %	-	-		3 %
Layer 03						
mastic, black	6 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	97 %
Layer 03	-	-	-	-	-	100 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0014		Sample ID: S14			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery material, black	90 %	-	-	-		NAD
Layer 02						
mastic, white	5 %	-	-	-		NAD
Layer 03						
coating, tan	5 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %

Client Sample ID: 27452.000-0015		Sample ID: S15			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
paint, tan with fine compact powder, off- white	20 %	Trace	-	-		< 1 %
Layer 02						
compact chalky material with paper, white	80 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Comments: An actionable amount of suspect asbestos fibers is likely present in layer 02. However, confirmation of fiber identity was not possible by PLM. TEM analysis is highly recommended.

Client: PBS Engineering and Environmental
4412 S Corbett Avenue
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Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0016		Sample ID: S16			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Ryan Talaski-Brown	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
hard vinyl, white	60 %	-	-	-		NAD
Layer 02						
mastic, clear yellow	4 %	-	-	-		NAD
Layer 03						
thin rubbery material, off-white	35 %	-	-	-		NAD
Layer 04						
thin mastic, black	1 %	Trace	-	-		< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	100 %

Client Sample ID: 27452.000-0017		Sample ID: S17			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
mastic, yellow	6 %	-	-	-		NAD
Layer 02						
compact powder, white	4 %	-	-	-		NAD
Layer 03						
soft compact material, gray	25 %	-	-	-		NAD
Layer 04						
mastic, tan	5 %	-	-	-		NAD
Layer 05						
hard compact powder, white	60 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	-	1 %	-	1 %	-	98 %
Layer 03	-	1 %	-	2 %	-	97 %
Layer 04	-	1 %	-	Trace	-	99 %
Layer 05	-	2 %	-	-	-	98 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0018		Sample ID: S18			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
hard vinyl, tan with coating, brown/blue pattern		97 %	3 %	-	-	3 %
Layer 02						
mastic, black/brown		3 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	Matrix 97 %
Layer 02		-	Trace	-	Trace	-
						100 %
Client Sample ID: 27452.000-0019		Sample ID: S19			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
vinyl, gray		75 %	-	-	-	NAD
Layer 02						
fibrous backing, gray		20 %	-	-	-	NAD
Layer 03						
mastic, off-white/yellow on wood		5 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	-	-	Matrix 100 %
Layer 02		-	30 %	-	20 %	-
Layer 03		-	Trace	-	1 %	-
						99 %
Client Sample ID: 27452.000-0020		Sample ID: S20			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
hard vinyl, tan		95 %	5 %	-	-	5 %
Layer 02						
mastic, black		5 %	3 %	-	-	3 %
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	-	2 %	-	-
Layer 02		-	-	-	-	-
						Matrix 93 % 97 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0021		Sample ID: S21			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, black with paint, green	95 %	-	-	-	NAD	
Layer 02						
mastic, brown	5 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	1 %	-	99 %
Client Sample ID: 27452.000-0022		Sample ID: S22			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous						
loose granular powder, gray with paint, blue	100 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %
Client Sample ID: 27452.000-0023		Sample ID: S23			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
granular compact powder, white with paint, blue	3 %	-	-	-	NAD	
Layer 02						
compact chalky material with paper, white	97 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	Trace	2 %	-	-	-	98 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0024			Sample ID: S24			Date Analyzed: 07/03/2023	
Client Sample Description:						Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer					Percent Asbestos:	
	Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
woven fibers, off-white	100 %	-	-	-	NAD		
Other Fibers	Fibrous		Mineral				
	Glass	Cellulose	Wool	Synthetic	Other	Matrix	
	-	-	-	100 %	-	0 %	
Client Sample ID: 27452.000-0025			Sample ID: S25			Date Analyzed: 07/03/2023	
Client Sample Description:						Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer					Percent Asbestos:	
	Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
woven fibers, off-white with paint, gray	100 %	-	-	-	NAD		
Other Fibers	Fibrous		Mineral				
	Glass	Cellulose	Wool	Synthetic	Other	Matrix	
	-	-	-	100 %	-	0 %	
Client Sample ID: 27452.000-0026			Sample ID: S26			Date Analyzed: 07/03/2023	
Client Sample Description:						Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer					Percent Asbestos:	
	Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
loose particulate, brown/black	100 %	-	-	-	NAD		
Other Fibers	Fibrous		Mineral				
	Glass	Cellulose	Wool	Synthetic	Other	Matrix	
	-	1 %	-	-	-	99 %	
Client Sample ID: 27452.000-0027			Sample ID: S27			Date Analyzed: 07/03/2023	
Client Sample Description:						Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer					Percent Asbestos:	
	Percent:	Chrysotile	Amosite	Crocidolite			
Homogeneous							
fibrous powder, white	100 %	3 %	8 %	-	11 %		
Other Fibers	Fibrous		Mineral				
	Glass	Cellulose	Wool	Synthetic	Other	Matrix	
	-	-	-	-	-	89 %	

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0028	Sample ID: S28				Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fibrous material, gray/blue	100 %	65 %	-	-		65 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	20 %	-	15 %
Client Sample ID: 27452.000-0029	Sample ID: S29				Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
fibrous powder, white	100 %	4 %	6 %	-		10 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	90 %
Client Sample ID: 27452.000-0030	Sample ID: S30				Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Mia Gaines	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
soft compact material, gray/silver	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	3 %	-	97 %
Client Sample ID: 27452.000-0031	Sample ID: S31				Date Analyzed: 07/03/2023	
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
	-	8 %	-	-	-	92 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0032		Sample ID: S32			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Layer 01						
rubbery particulate, black/white	75 %	-	-	-		NAD
Layer 02						
loose particulate, brown	15 %	-	-	-		NAD
Layer 03						
loose fibers, blue	10 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %
Layer 03	-	-	-	100 %	-	0 %
Client Sample ID: 27452.000-0033		Sample ID: S33			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
granular compact powder with paint, off- white	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	100 %
Client Sample ID: 27452.000-0034		Sample ID: S34			Date Analyzed: 07/03/2023	
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	92 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	45 %	45 %	-	-	10 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0035		Sample ID: S35			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
coating, white	10 %	-	-	-	NAD	
Layer 02						
loose fibrous material, tan	90 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	0 %

Client Sample ID: 27452.000-0036		Sample ID: S36			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
mastic, tan/green	50 %	-	-	-	NAD	
Layer 02						
granular compact powder, gray	50 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	Trace	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 27452.000-0037		Sample ID: S37			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl, gray	80 %	-	-	-	NAD	
Layer 02						
fibrous backing, gray	20 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	60 %	-	-	-	40 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0038		Sample ID: S38			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl, blue	80 %	-	-	-	NAD	
Layer 02						
mastic, black/tan	20 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	4 %	-	Trace	-	96 %
Client Sample ID: 27452.000-0039		Sample ID: S39			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, brown	82 %	-	-	-	NAD	
Layer 02						
mastic, off-white/tan, with paper, brown	18 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	-	5 %	-	-	-	95 %
Client Sample ID: 27452.000-0040		Sample ID: S40			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
coating, off- white/green/gray	15 %	-	-	-	NAD	
Layer 02						
compact chalky material with paper, white	85 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	3 %	-	-	-	97 %
Layer 02	-	3 %	-	-	-	97 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0041		Sample ID: S41			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01						
coating, white		35 %	-	-	-	NAD
Layer 02						
compressed fibrous material, tan/gray		65 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
Layer 01		-	Trace	-	-	-
Layer 02		-	45 %	45 %	-	-
						Matrix
						100 %
						10 %

Client Sample ID: 27452.000-0042		Sample ID: S42			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous						
loose particulate, black/off-white		100 %	-	-	-	NAD
Other Fibers		Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other
		-	8 %	-	-	-
						Matrix
						92 %

Client Sample ID: 27452.000-0043		Sample ID: S43			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers		Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous						
particulate, black		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: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0044		Sample ID: S44			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
vinyl, off-white/tan	40 %	-	-	-	NAD	
Layer 02						
fibrous material, off-white/gray	60 %	60 %	-	-	60 %	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	12 %	-	-	-	28 %
Client Sample ID: 27452.000-0045		Sample ID: S45			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
rubbery material, gray	85 %	-	-	-	NAD	
Layer 02						
mastic, off-white, with thin powder, white	15 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	100 %
Client Sample ID: 27452.000-0046		Sample ID: S46			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01						
fine compact powder with paint, off-white/white	40 %	-	-	-	NAD	
Layer 02						
woven fibers, off-white	10 %	-	-	-	NAD	
Layer 03						
loose chalky material with paper, off-white	50 %	-	-	-	NAD	
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	100 %	-	-	-	-	0 %
Layer 03	Trace	Trace	-	-	-	100 %

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

Project Number: 27452.000 Phase 0001

Project Notes:

Client Sample ID: 27452.000-0047		Sample ID: S47			Date Analyzed: 07/03/2023	
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	30 %	-	-	-		NAD
Layer 03						
mastic, brown	60 %	Trace	-	-		< 1 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	Trace	-	-	-	100 %
Layer 02	-	60 %	-	-	-	40 %
Layer 03	-	Trace	-	-	-	100 %

Client Sample ID: 27452.000-0048		Sample ID: S48			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
loose particulate, black	100 %	2 %	-	-		2 %
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	98 %

Client Sample ID: 27452.000-0049		Sample ID: S49			Date Analyzed: 07/03/2023	
Client Sample Description:					Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite		Percent Asbestos:
Homogeneous						
soft rubbery material, black	100 %	-	-	-		NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %



Lab/Cor Portland, Inc.

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

BULK SAMPLE ASBESTOS ANALYSIS

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

Asbestos and Environmental Analysis

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

Report Number: 231733R01

Report Date: 07/03/2023

Job Number: 231733

P.O. No: n/a

Project Name:

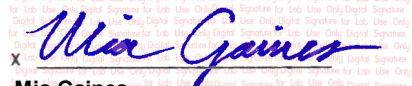
Project Number: 27452.000 Phase 0001

Project Notes:

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

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

Reviewed by:

Digital Signature for Lab Use Only Digital Signature for Lab Use Only Digital Signature for Lab Use Only Digital Signature for Lab Use Only

X
Mia Gaines
Digital Signature for Lab Use Only Digital Signature for Lab Use Only Digital Signature for Lab Use Only Digital Signature for Lab Use Only
Eurofins - LabCor Portland

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



PBS

231733

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 28, 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

RECEIVER

Date Received: 6/28/23

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

Name

Authorized Signature

Date

Time

Sender's ID No.

Brief Description

Receiver's ID No.

27452.000-0001

27452.000-0002

27452.000-0003

27452.000-0004

27452.000-0005

27452.000-0006

27452.000-0007

27452.000-0008

27452.000-0009

27452.000-0010

27452.000-0011

27452.000-0012

27452.000-0013

27452.000-0014



PBS

231733 ²/₃

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27452.000-0015			
27452.000-0016			
27452.000-0017			
27452.000-0018			
27452.000-0019			
27452.000-0020			
27452.000-0021			
27452.000-0022			
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27452.000-0025			
27452.000-0026			
27452.000-0027			
27452.000-0028			
27452.000-0029			
27452.000-0030			
27452.000-0031			
27452.000-0032			
27452.000-0033			
27452.000-0034			
27452.000-0035			
27452.000-0036			
27452.000-0037			
27452.000-0038			
27452.000-0039			



PBS

231733 ³/₃

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

27452.000-0040

27452.000-0041

27452.000-0042

27452.000-0043

27452.000-0044

27452.000-0045

27452.000-0046

27452.000-0047

27452.000-0048

27452.000-0049

Please analyze the enclosed 49 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