Limited Hazardous Materials Survey Report

Carlyon House (formerly Shumaker Building) 1417 Columbia St. SW

Olympia, WA 98501 State of Washington Project No. 2021-244

Prepared for: State of Washington Department of Enterprise Services (DES) Engineering & Architectural Services (E&AS) P.O. Box 41476 Olympia, WA 98504

REVISED July 29, 2021 PBS Project No. 40535.494



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AA Lead Paint Chip Chain of Custody Documentation

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1 INTRODUCTION

1.1 Project Background

PBS Engineering and Environmental, Inc. (PBS) performed a limited hazardous materials survey of the Carlyon House (formerly Shumaker Building) located at 1417 Columbia Street SW in Olympia, Washington. The intent of this investigation is to ensure that the State of Washington is in compliance with applicable regulatory requirements that a "good faith inspection" for ACMs be performed prior to renovation or demolition activities.

At the request of DES E&AS, all accessible areas of the building were inspected for the presence of Asbestos-Containing Materials (ACMs), Lead Containing Paint (LCP), polychlorinated biphenyls (PCBs) and mercury-containing components.

The Carlyon House consists of a two-story wood-framed former residential structure with a concrete basement foundation, currently used as office space. Interior finishes generally consist of carpet over hardwood floors in most rooms and hallways, with sheet flooring at entries and ceramic tile in restrooms. Walls consist of both plaster/lath and gypsum wallboard, with cellulose fiberboard substrates in various locations. A distinct skimcoat exists on walls in the west central room north of the restrooms. Ceilings have been retrofitted with textured gypsum wallboard in most spaces on the main level. The upper level has been stripped to wood components except for one room at the east side. Exterior siding and windows are wood, and roofing consists of composition shingles.

PBS previously inspected the Shumaker House in 1994 for the presence of accessible OSHA target ACMs. Pertinent information has been incorporated into this investigation.

1.2 Survey Process

Accessible areas included in the project scope were inspected by AHERA Certified Building Inspector Cel Alvarez (Cert. No. 176590 Exp. 1/22/2021) and Martin Estira (Cert. No 175867 Exp. 12/4/2020) on April 9, 2020. PBS endeavored to inspect all accessible areas within the scope of work. Inaccessible areas consist of those requiring selective demolition, fall protection, or confined space entry protocols in order to gain access.

When observed, suspect materials were sampled, or presumed to contain asbestos. Fifty-four (54) bulk samples were collected of suspect asbestos-containing materials as part of this investigation. All samples were assigned a unique identification number and transmitted for analysis to Seattle Asbestos Test (NVLAP #201057-0) under chain-of-custody protocols. Samples were analyzed according to EPA Method 600R-93/116 using Polarized Light Microscopy (PLM), which has a reliable limit of quantification of 1% asbestos by volume. Information regarding the type and location of sampled materials can be found on the attached PLM Sample Inventory.

Suspect ACMs may exist in inaccessible areas of the building. PBS endeavored to determine the presence and estimate the condition of suspect materials in all accessible areas. While PBS has endeavored to identify the ACM that may be found in concealed locations, additional unidentified ACM may exist.

2 FINDINGS

2.1 Asbestos-Containing Materials (ACMs)

The following materials were found to contain greater than 1% asbestos:

- Skimcoat on walls, and on ceiling concealed by replacement gypsum wallboard West central room north of restrooms, approx. 650 SF;
- Insulting Packing Boiler Unit Doors approx. 6 SF
- Sheet Floor Covering Kitchen Counter (previous data) approx. 15 SF;
- Window Putty Throughout Exterior approx. 30 ea. of various size, +/-450 LF (previous data);



Sampling of window putty at the North restroom in 1995 detected 2% asbestos. Confirmation sampling performed as part of this investigation did not detect asbestos in three samples of window putty. Based on the inherent variability in window putty applications all window putty is considered asbestos-containing pending further testing to determine if portions of the material are non-asbestos.

The following materials were sampled as part of this investigation and found to contain no asbestos:

- Carpet Mastic various locations throughout;
- 12" Glued-on Ceiling Tile/Mastic various locations throughout;
- Window Putty Throughout (Excluding Basement);
- Yellow Ceramic Tile/Mortar Kitchen;
- Pink Ceramic Tile/Mortar Restrooms;
- Gypsum Wallboard/Joint Compound various locations throughout
- Wall Plaster various locations throughout;
- Ceiling Plaster/fiberboard various locations throughout.

The following materials were sampled as part of PBS' previous investigation and found to contain no asbestos:

- Wall Plaster various locations throughout;
- Sheet Floor Covering First Floor West Hallway;
- Gypsum Wallboard/Joint Compound various locations throughout;
- Gray Flue Cement North Basement;
- White Flue Cement South Basement;
- Window Putty Basement North;

Refer to Appendix A for a complete listing of current PLM bulk sampling and associated laboratory analysis.

2.2 Lead-Containing Paint (LCP)

Five (5) representative painted coatings were sampled for lead content during this survey. The samples were assigned a unique identification number and transmitted to NVL Laboratories (AIHA IH #101861) in Seattle, Washington under chain-of-custody protocols for analysis using Flame Atomic Absorption.

Lead was detected in four (4) of the samples collected:

- Gray paint on west entry door frame 13.0%.
- White paint on interior wood window frame 0.064%
- Off-white paint on exterior wood siding 1.50%
- White wood on exterior wood window frame 6.90%

For a complete listing of representative bulk sampling and associated laboratory analysis, refer to Appendix B.

2.3 Mercury-Containing Components

All fluorescent light tubes are presumed to contain mercury. Approximately forty (40) four-foot fluorescent lamps and five (5) compact fluorescent light bulbs were observed during our investigation. Caution should be exercised during demolition to not break these lamps/bulbs.

2.4 PCB-Containing Components

PBS inspected representative fluorescent light fixture ballasts that are to be removed to facilitate the planned demolition. Fluorescent light fixtures throughout the building were inspected and found to contain electronic ballasts. Electronic ballasts do not contain PCB-laden oil.



3 RECOMMENDATIONS

3.1 ACMs

Prior to impact by renovation or demolition, all ACMs should be removed and properly disposed of by a qualified State of Washington licensed asbestos abatement contractor in accordance with all applicable local, state and federal regulations. Any ACMs that may be impacted by demolition activities should only be impacted by properly trained and protected personnel using appropriate work practices.

The possibility exists that suspect ACM may be present in equipment, wall, and ceiling cavities, and in select areas included in the scope of renovations. These may include, but are not limited to pipe insulation, below slab components vapor barriers, and construction adhesives and wall mastics. In the event that suspect ACM is uncovered during demolition, contractors should stop work immediately and inform the owner promptly for confirmation testing. All untested materials should be presumed asbestos-containing or tested for asbestos content prior to impact.

3.2 LCP

Representative paint coatings were found to contain detectable lead. Paint coatings may exist in inaccessible areas of the building or in secondary coatings on building components. Any previously unidentified painted coatings should be considered lead containing until sampled and proven otherwise.

Impact of paint with detectable concentrations of lead requires construction activities to be performed in accordance with the State of Washington Department of Labor and Industries regulation for Lead in Construction (WAC 296-155-176).

3.3 Mercury-Containing Components

All fluorescent lamps and CFL bulbs at this site are presumed to be mercury-containing. PBS recommends that all fluorescent lamps be carefully handled and recycled/disposed of in accordance with the contract documents and applicable regulations during demolition activities. Breakage of lamps should be avoided to prevent potential exposures to mercury. Washington Department of Safety and Health requires specific training, handling, engineering controls and disposal practices when performing this work. All waste shall be handled in accordance with WAC 173-303.

3.4 PCB-Containing Components

PBS recommends all light ballasts be inspected prior to disposal. Magnetic ballasts should be presumed to contain PCBs and properly removed, stored, transported and disposed of in accordance with Washington Administrative Code (WAC) 173-303 Dangerous Waste Regulations and 40 CFR Part 761 Subpart D. Electronic ballasts do not contain PCBs and can be disposed of as general debris in compliance with applicable codes and endpoint facility requirements.

Report prepared by: Report reviewed by:

Ferman Fletcher AHERA Building Inspector Cert. #IR-21_8539B Exp. 4/01/2022 Tim Ogden Principal/ Sr. Project Manager, AHERA Building Inspector Cert. #IR-21-2008A, exp. 4/01/2022



APPENDIX A

PLM Asbestos Bulk Sampling Information

PLM Asbestos Bulk Sample Inventory PLM Asbestos Bulk Sample Laboratory Data Sheets Chain of Custody

Historical Asbestos Survey Information - PBS, April 1995

Carlyon House, Olympia, WA Washington State Department of Enterprise Services PLM ASBESTOS SAMPLE INVENTORY

PBS Sample #	Material Type	Sample Location	Lab Description	Lab Result	<u>Lab</u>
40535.494 -C01	Firebrick	Basement; Boiler box	Layer 1: Red/tan sandy/brittle material	NAD	SAT
40535.494 -C02	Firebrick	Basement; Boiler box	Layer 1: Red sandy/brittle material	NAD	SAT
40535.494 -C03	Firebrick	Basement; Boiler box	Layer 1: Red sandy/brittle material	NAD	SAT
40535.494 -C04	Packing	Basement; Boiler door	Layer 1: Tan brittle material	5% Chrysotile	SAT
40535.494 -C05	Packing	Basement; Boiler door	Layer 1: Tan brittle material	7% Chrysotile	SAT
40535.494 -C06	Packing	Basement; Boiler door	Layer 1: Tan brittle material	7% Chrysotile	SAT
40535.494 -C07	Wall texture	1st Floor; West central room; Southwest corner	Layer 1: White powdery material with paint	2% Chrysotile	SAT
40535.494 -C08	Wall texture	1st Floor; West central room; North wall	Layer 1: White powdery material with paint and paper	2% Chrysotile	SAT
40535.494 -C09	Wall texture	1st Floor; West central room; Southeast corner	Layer 1: White powdery material with paint and paper Layer 2: Gray sandy/brittle material	2% Chrysotile NAD	SAT
40535.494 -C10	Ceramic floor tile Mortar	1st floor; North bathroom	Layer 1: Blue ceramic Layer 2: Gray sandy/brittle material Layer 3: Off-white/yellow mastic	NAD NAD NAD	SAT
40535.494 -C11	Window putty	Basement; West elevation, South-most window	Layer 1: White soft material with paint Layer 2: Tan brittle material	NAD NAD	SAT
40535.494 -C12	Window putty	1st Floor; South elevation, 2nd window from East end	Layer 1: Gray brittle material with paint	NAD	SAT
40535.494 -C13	Window putty	1st Floor; West elevation 2nd window from North end	Layer 1: Off-white/beige brittle material with paint	NAD	SAT
40535.494 -C14	Orange peel texture on ceiling plaster	1st Floor; West central room	Layer 1: White powdery material with paint and paper Layer 2: Gray sandy/brittle material	3% Chrysotile NAD	SAT

PBS Sample #	Material Type	Sample Location	<u>Lab Description</u>	<u>Lab Result</u>	<u>Lab</u>
40535.494 -C15	Orange peel texture on ceiling	1st Floor kitchen	Layer 1: Trace white powdery material with paint	NAD	SAT
10333.131 213	plaster	13t 11661 Riterien	Layer 2: White brittle material with paint	NAD	57 (1
	plastic.		Layer 3: Gray sandy/brittle material	NAD	
40535.494 -C16	Orange peel texture on ceiling	1st Floor; Northwest room,	Layer 1: Trace white powdery material with paint	NAD	SAT
	plaster	Northwest corner	Layer 2: Yellow mastic	NAD	
			Layer 3: White brittle material with paint	NAD	
			Layer 4: Gray sandy/brittle material	NAD	
40535.494 -C17	Orange peel texture on ceiling	1st Floor; North entry hallway,	Layer 1: Trace white powdery material with paint	NAD	SAT
	plaster	Northeast corner	Layer 2: Yellow mastic	NAD	
			Layer 3: Gray sandy/brittle material	NAD	
40535.494 -C18	Orange peel texture on ceiling	1st Floor; Southeast corner office	Layer 1: White powdery material with paint	NAD	SAT
	plaster		Layer 2: Yellow woven fibrous material	NAD	
			Layer 3: White chalky material with paper	NAD	
40535.494 -C19	Shingles and felt paper	South roof area	Layer 1: Black asphaltic material with sand	NAD	SAT
			Layer 2: Black asphaltic fibrous material	NAD	
40535.494 -C20	Shingles and felt paper	North roof area	Layer 1: Black asphaltic material with sand	NAD	SAT
	3 1 1		Layer 2: Black asphaltic material with sand	NAD	
			Layer 3: Black asphaltic fibrous material	NAD	

SEATTLE ASBESTOS TEST, LLC

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code:

www.seattleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Mr. Ferman Fletcher, Ms. Michelle Dodson, Mr. Tim Ogden

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Tel: 206.233.9639

Date Report Issued: 6/30/2021

Date Analyzed: 6/30/2021

Client Job#: 40535.494

Project Location: Carlyon House

Laboratory batch#: 202110564

Samples Received: 18

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover leter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

Thana

Steve (Fanyao) Zhang Approved Signatory



Project: Carlyon House		Project #: 40535.494
Analysis requested: PLM		Date: 6/29/21
Relinq'd by/Signature:		Date/Time: 6/29/21
Received by/Signature: Carol	to tee a year	Date/Time: 6/29/21 16:31
E-mail results to:		
☐ Brian Stanford	Cel Alvarez	Mike Smith
☐ Willem Mager	☐ Janet Murphy	Ferman Fletcher
Gregg Middaugh	☐ Kaitlin Soukup	☐ Holly Tuttle
Mark Hiley	Martin Estira	Ryan Hunter
☐ Tim Ogden	☐ Justin Day	Eman Jabali
Prudy Stoudt-McRae	Michelle Dodson	
E-mail all invoices to: seattleap@p	bsusa.com	
TURN AROUND TIME:		
1 Hour	24 Hours	☐ 3-5 Days
2 Hours	48 Hours	Other
4 Hours		

	SAMPLE DATA FORM						
Sample #	Material	Location	Lab				
40535.494-C01	Firebrick	Basement; Boiler Box	SAT				
-C02	п	Basement; Boiler Box					
-C03	ū	Basement; Boiler Box					
-C04	Packing	Basement; Boiler Door					
-C05	44	Basement; Boiler Door					
-C06	4	Basement; Boiler Door					
-C07	Wall Texture	1st Floor; W. Central Room; SW corner					
-C08	и	1st Floor; W. Central Room; N. Wall					
-C09	а	1st Floor; W. Central Room; SE corner					
C10	Ceramic Floor Tile/Mortar	1st Floor; N. Bathroom					
-C11	Window Putty	Basement; W. Elevation, S. most window					
-C12	и	1st Floor; S. Elevation, 2nd Window from E. end					
-C13	Window Putty	1st Floor; W. elevation 2nd Window from N. End					
-C14	Orange Peel Texture on Ceiling Plaster	1st Floor; W. Central Room					
-C15	#	1st Floor. Kitchen					
-C16	и	1st Floor; NW Room, NW corner					
-C17	и	1st Floor; N entry hallway, NE corner					
-C18	"	1st Floor; SE Corner Office					

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

Disclaimer: This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government.

ANALYTICAL LABORATORY REPORT

[PLM] EPA - 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

[PLM]

Mr. Ferman

Attn.: Fletcher, Ms. Michelle Dodson, Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Mr. Tim Ogden Job#: 40535.494

Batch#: 202110564

2110564 Date Received: 6/29/2021

Date Analyzed: 6/30/2021

Samples Analyzed: 18

Project Loc.: Carlyon House

Samples Rec'd: 18

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normed Signatory: Steve (Fanyso) Thang Presiden

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Laker	T 05-40 1 10 T	1	Dec. 1.5	-	T	Tw. n	-	T
Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibe
1	40535.494-C01	1	Red/tan sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose
2	40535.494-C02	1	Red sandy/brittle material		None detected	Sand, Filler, Binder	3	Cellulose
3	40535.494-C03	1	Red sandy/brittle material		None detected	Sand, Filler, Binder	3	Cellulose
4	40535.494-C04	1	Tan brittle material	5	Chrysotile	Binder, Filler	2	Cellulose
5	40535.494-C05	1	Tan brittle material	7	Chrysotile	Binder, Filler	3	Cellulose
6	40535.494-C06	1	Tan brittle material	7	Chrysotile	Binder, Filler	2	Cellulose
7	40535.494-C07	1	White powdery material with paint	2	Chrysotile	Binder, Filler, Paint	2	Cellulose
8	40535.494-C08	1	White powdery material with paint and paper	2	Chrysotile	Binder, Filler, Paint	24	Cellulose
9	40535.494-C09	1	White powdery material with paint and paper	2	Chrysotile	Binder, Filler, Paint	21	Cellulose
		2	Gray sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose
		1	Blue ceramic		None detected	Ceramic/binder		None detecte
10	40535.494-C10	2	Gray sandy/brittle material		None detected	Sand, Filler, Binder	3	Cellulose
		3	Off-white/yellow mastic		None detected	Mastic/binder	2	Cellulose
11	40535.494-C11	1	White soft material with paint		None detected	Binder, Filler, Paint	2	Cellulose
	40333.434-011	2	Tan brittle material		None detected	Binder, Filler	3	Cellulose
12	40535.494-C12	1	Gray brittle material with paint		None detected	Binder, Filler, Paint	3	Cellulose
13	40535.494-C13	1	Off-white/beige brittle material with paint		None detected	Binder, Filler, Paint	2	Cellulose
14	40535.494-C14	1	White powdery material with paint and paper	3	Chrysotile	Binder, Filler, Paint	25	Cellulose
2000		2	Gray sandy/brittle material		None detected	Sand, Filler, Binder	3	Cellulose
500.0		1	Trace white powdery material with paint		None detcted	Binder, Filler, paint	2	Cellulose
15	40535.494-C15	2	White brittle material with paint		None detected	Binder, Filler, Paint	2	Cellulose
		3	Gray sandy/brittle material		None detected	Sand, Filler, Binder	3	Cellulose

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Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

[PLM]

Mr. Ferman

Attn.: Fletcher, Ms. Michelle Dodson, Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Mr. Tim Ogden Job#: 40535.494

Batch#: 202110564

Date Received: 6/29/2021

Samples Rec'd: 18

Date Analyzed: 6/30/2021

Samples Analyzed: 18

Project Loc.: Carlyon House

unseveed by: Cambro Yes

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Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
		1	Trace white powdery material with paint		None detcted	Binder, Filler, paint	3	Cellulose
16	40535.494-C16	2	Yellow mastic		None detected	Mastic/binder	3	Cellulose
		3	White brittle material with paint		None detected	Binder, Filler, Paint	2	Cellulose
		4	Gray sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose
	40535.494-C17	1	Trace white powdery material with paint		None detcted	Binder, Filler, paint	2	Cellulose
17		2	Yellow mastic		None detected	Mastic/binder	3	Cellulose
		3	Gray sandy/brittle material		None detected	Sand, Filler, Binder	2	Cellulose
		1	White powdery material with paint		None detected	Binder, Filler, Paint	3	Cellulose
18	40535.494-C18	2	Yellow woven fibrous material		None detected	Filler	90	Glass fibers
		3	White chalky material with paper		None detected	Binder/filler, Gypsum/binder	27	Cellulose

SEATTLE ASBESTOS TEST, LLC

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425,673,9850, Fax: 425,673,9810, NVLAP Lab Code:

www.seattleasbestostest.com, admin@seattleasbestostest.com

Project Manager: Mr. Tim Ogden, Mr. Ryan Hunter, Ms. Michelle Dodson

Client: PBS Engineering and Environmental, Seattle Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Tel: 206.233.9639

Date Report Issued: 7/26/2021

Date Analyzed: 7/26/2021

Client Job#: 40535,494

Project Location: Carl Yon House

Laboratory batch#: 202110781

Samples Received: 2

Enclosed please find the test results for the bulk samples submitted to our laboratory for asbestos analysis. Analysis was performed using polarized light microscopy (PLM) in accordance with Test Method US EPA - 40 CFR Appendix E of Part 763, Interim Method of Determination of Asbestos in Bulk Insulation Samples and Test Method US EPA/600/R-93/116.

Percentages for this report are done by visual estimate and relate to the suggested acceptable error ranges by the method. Since variation in data increases as the quantity of asbestos decreases toward the limit of detection, the EPA recommends point counting for samples containing between <1% and 10% asbestos (NESHAP, 40 CFR Part 61). Statistically, point counting is a more accurate method. If you feel a point count might be beneficial, please feel free to call and request one.

The test results refer only to the samples or items submitted and tested. The accuracy with which these samples represent the actual materials is totally dependent on the acuity of the person who took the samples. This report must not be used by the client to claim product certification, approval, or endorsement by Seattle Asbestos Test, LLC, NVLAP, NIST, or any agency of the Federal government. The test report or calibration certificate shall not be reproduced except in full, without written approval of the laboratory. If the sample is inhomogeneous the sub-samples of the components are analyzed separately as layers. This report in its entirety consists of this cover leter, the customer sampling COC or data sheet, and the analytical report which is page numbered.

This report is highly confidential and will not be released without your consent. Samples are archived for 30 days after the analysis, and disposed of as hazardous waste thereafter.

Thank you for using our service and let us know if we can further assist you.

Sincerely

SZhana

Steve (Fanyao) Zhang Approved Signatory

202110781



LABORATORY CHAIN OF CUSTODY

Project: CAR	L YON HOUSE	(SCOVMAKER)	Project #:_ 40535.	494.
Analysis reques	ited: Pun		Date: 7 23 202	
	nature: <u>Pyrv</u> D gnature: <u>Covoly</u> <u>Ye</u>		Date/Time: 7/23/2/	
	Emai	ALL INVOICES to	: seattleap@pbsusa.com	
E-mail results to: Brian Stanford Willem Mager Gregg Middar Mark Hiley Tim Ogden Prudy Stoudt	d r ugh	Janet Murphy Kaitlin Soukup Martin Estira Justin Day Claire Tsai Holly Tuttle	Mike Smith Ferman Fletch Ryan Hunter Michelle Dods	
TURN AROUND 1 1 Hour 2 Hours 4 Hours	TIME:	24 Hours 48 Hours	3-5 Days Other	
		SAMPLE DA	TA FORM	
Sample #	Ma	aterial	Location	Lab
C19	Shingles + FeH	Paper	SOUTH ROOK AD = D	SAT

	SAMPLE	DATA FORM	
Sample #	Material	Location	Lab
C19	Shingles + Fett Paper	SOUTH ROOK ARED	SAT
C 20	Shingles + Felt Paper Shingles + Felt Paper	NORTH ROOF AREA	+

SEATTLE ASBESTOS TEST

Lynnwood Laboratory: 19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel: 425.673.9850, Fax: 425.673.9810, NVLAP Lab Code: 200768-0

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ANALYTICAL LABORATORY REPORT

[PLM] EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

[PLM]

Mr. Tim Ogden, Mr. Attn.: Ryan Hunter, Ms. Michelle Dodson

Client: PBS Engineering and Environmental, Seattle

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Job#: 40535,494

Samples Rec'd: 2

Batch#: 202110781 Date Analyzed: 7/26/2021

Date Received: 7/23/2021

Samples Analyzed: 2

Project Loc.: Carl Yon House

SZhang

Lab ID	Client Sample ID	Layer	Description	%	Asbestos Fibers	Non-fibrous Components	%	Non-asbestos Fibers
1	C19	1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	25	Glass fibers
	019	2	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	68	Cellulose
		1	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	23	Glass fibers
2	C20	2	Black asphaltic material with sand		None detected	Asphalt/binder, Sand	20	Glass fibers
		3	Black asphaltic fibrous material		None detected	Asphalt/binder, Filler	65	Cellulose

19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel:425.673.9850, Fax:425.673.9810 4500 9th Ave., NE, Suite 300, Seattle, WA 98105

Website:www.seattleasbestostest.com, Email:admin@seattleasbestostest.com

PLM by Point Count (400 points)

Client Job #: 40535.494

Attention: Mr. Ferman Fletcher, Ms. Michelle Dodson, Mr. Tim Ogden

Client: PBS Engineering and Environmental, Seattle

Date Received: 7/2/2021

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102 Samples Received: 4

Date Analyzed: 7/6/2021

Project: Carlyon House

Sample Requested for Point Count 40535.494-C07

Previous Analytical Information

Previously Analyzed by: Carolyn Yeo Previous Batch #: 202110564

Previous Lab ID: 7

Previous Description: White powdery material with paint

Layer to be Point Counted: 1

Asbestos Type Found: Chrysotile

Asbestos Percentage Found: 2

Point Count Analytical Procedures

	Asbestos Points	Non-Asbestos Points	Total Points Counted
Slide 1	1	49	50
Slide 2	1	49	50
Slide 3	0	50	50
Slide 4	1	49	50
Slide 5	0	50	50
Slide 6	0	50	50
Slide 7	1	49	50
Slide 8	1	49	50
Total	5	395	400

New Lab ID:

Point Count Summary Results

Type of Asbestos: Chrysotile Percentage of Asbestos: 1.25%

Analyzed By: Carolyn Yeo

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Reviewed by: Steve Zhang, President

19701 Scriber Lake Road, Suite 103, Lynnwood, WA 98036, Tel:425.673.9850, Fax:425.673.9810
4500 9th Ave., NE, Suite 300, Seattle, WA 98105

Website:www.seattleasbestostest.com, Email:admin@seattleasbestostest.com

PLM by Point Count (400 points)

Client Job #: 40535.494

Attention: Mr. Ferman Fletcher, Ms. Michelle Dodson, Mr. Tim Ogden

Laboratory Batch #: 202110604 Date Received: 7/2/2021

Client: PBS Engineering and Environmental, Seattle

Samples Received: 4

Address: 214 E Galer Street, Suite 300, Seattle, WA 98102

Date Analyzed: 7/6/2021

Project: Carlyon House

Sample Requested for Point Count 40535.494-C14

Previous Analytical Information

Previously Analyzed by: Carolyn Yeo Previous Batch #: 202110564

Previous Lab ID: 14

Previous Description: White powdery material with paint and paper

Layer to be Point Counted: 1

Asbestos Type Found: Chrysotile

Asbestos Percentage Found: 3

Point Count Analytical Procedures

New Lab ID:

2

	Asbestos Points	Non-Asbestos Points	Total Points Counted
Slide 1	1	49	50
Slide 2	1	49	50
Slide 3	1	49	50
Slide 4	0	50	50
Slide 5	1	49	50
Slide 6	0	50	50
Slide 7	1	49	50
Slide 8	0	50	50
Total	5	395	400

Point Count Summary Results

Type of Asbestos: Chrysotile Percentage of Asbestos: 1.25%

Analyzed By: Carolyn Yeo

ayre

Reviewed by: Steve Zhang, President

Shumaker	Build	ling	- #94
Dulle Cor	مامرم	Inu	nton

General Administration A	Asbestos	Survey
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CODE	MATERIAL / LOCATION	ANALYSIS / LAB
7045.20-001	Gypsum/Joint Compound First floor north end	NAD (All layers) PBS
7045.20-002	Gypsum/Joint Compound First floor north end at door frame	NAD PBS
7045.20-003	Vinyl Floor Tile (1)/Mastic 12" x 12" white/yellow mastic 1st floor south	NAD PBS
7045.20-004	Sheet Floor Covering (1) Asphaltic - 1st floor south at entry	NAD PBS
7045.20-005	Sheet Floor Covering (2) Pink - Kitchen Counter	NAD (Pink sheet vinyl) 75% Chrysotile (Gray felt backing) PBS
7045.20-006	Grout/Felt Kitchen ceramic tile counter	NAD (All layers) PBS
7045.20-007	Window Putty Glazing putty - north restroom	2% Chrysotile (gray) PBS
7045.20-008	Wall and Ceiling Plaster Southeast corner ceiling - 1st floor	NAD PBS
7045.20-009	Wall and Ceiling Plaster Basement stairwell	NAD PBS
7045.20-010	Wall and Ceiling Plaster Basement stairwell	NAD R.J. Lee Group

^{*}NAD = No Asbestos Detected

^{*}Samples will be disposed of after 3/30/95 unless Owner notifies PBS.

ENVIRONMENTAL PBS

1220 S.W. MORRISON STREET PORTLAND, OREGON 97205 (503) 248-1939

BULK SAMPLE ASBESTOS ANALYSIS

Client: Washington Department of General Ser Report Date: 2/08/95 2/08/95

Date Received: 1058 Capitol Way

Client Project ID: N/A 98504 Olympia, WA

7045.20 PBS Project No.: 1 of 5 Page No.:

Client Sample ID: 7045.20-001

PBS Lab ID: 95-00-467

LAYER 2 LAYER 1 30% 70%

Percent of Sample:

Asbestiform Mineral Fibers

NAD NAD Total % Asbestos Fibers:

Other Fibers 75% 10% Cellulose

NO ASBESTOS DETECTED

COMMENTS: Layer 1: White friable, Layer 2: Beige/white paper.

Sample ashed.

Client Sample ID : 7045.20-002

PBS Lab ID: 95-00-468

Percent of Sample:

100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers

None Detected

NO ASBESTOS DETECTED

COMMENTS: Friable, White.

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PIM. Samples will be disposed of in 90 days.

Client: Washington Department of General Ser Report Date: 2/08/95

1058 Capitol Way Date Received: 2/08/95

Olympia, WA 98504 Client Project ID: N/A PBS Project No.: 7045.20

PBS Project No.: 7045.20 Page No.: 2 of 5

Client Sample ID : 7045.20-003

PBS Lab ID: 95-00-469

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers

None Detected

NO ASBESTOS DETECTED

COMMENTS: Tile, Mottled-beige.

Client Sample ID: 7045.20-004

PBS Lab ID: 95-00-470

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers
Cellulose 55%

NO ASBESTOS DETECTED

COMMENTS: Tar paper, Black. Sample ashed.

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

Client: Washington Department of General Ser Report Date: 2/08/95

1058 Capitol Way Date Received: 2/08/95

Olympia, WA 98504 Client Project ID: N/A

PBS Project No.: 7045.20

Page No.: 3 of 5

Client Sample ID: 7045.20-005

PBS Lab ID: 95-00-471

Percent of Sample: LAYER 1 LAYER 2
45% 55%

Asbestiform Mineral Fibers

Chrysotile - 75%

Total % Asbestos Fibers: NAD 75%

Other Fibers

Cellulose - 15%

COMBINED TOTAL % ASBESTOS: 42%

COMMENTS: Layer 1: Pink sheet vinyl, Layer 2: Gray felt backing.

Client Sample ID : 7045.20-006

PBS Lab ID: 95-00-472

Percent of Sample: LAYER 1 LAYER 2
50% 50%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD NAD

Other Fibers
Cellulose 1% 60%

NO ASBESTOS DETECTED

COMMENTS: Layer 1: Gray cementitious, Layer 2: Brown/black tar paper. Sample ashed.

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

Client: Washington Department of General Ser Report Date: 2/08/95

1058 Capitol Way Date Received: 2/08/95

Olympia, WA 98504 Client Project ID: N/A

PBS Project No.: 7045.20 Page No.: 4 of 5

Client Sample ID : 7045.20-007

PBS Lab ID: 95-00-473

Percent of Sample: 100%

Asbestiform Mineral Fibers

Chrysotile 2%

Total % Asbestos Fibers: 2%

Other Fibers

Cellulose 1%

TOTAL % ASBESTOS: 2%

COMMENTS: Compoundlike, Gray. Sample ashed.

Client Sample ID : 7045.20-008

PBS Lab ID: 95-00-474

NO ASBESTOS DETECTED

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers
Cellulose 1%
Hair 1%

A STATE OF THE STA

COMMENTS: Plaster, White/gray.

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

Client: Washington Department of General Ser Report Date: 2/08/95

1058 Capitol Way Date Received: 2/08/95

Olympia, WA 98504 Client Project ID: N/A

PBS Project No.: 7045.20

Page No.: 5 of 5

Client Sample ID : 7045.20-009

PBS Lab ID: 95-00-475

Percent of Sample: 100%

Asbestiform Mineral Fibers

Total % Asbestos Fibers: NAD

Other Fibers

Cellulose 3% Hair 1%

NO ASBESTOS DETECTED

COMMENTS: Plaster, White/gray.

Reviewed by: _

Approved Signatory

Analyst(s): Lisa Jones
Man Ninh

NAD = No Asbestos Detected. NIST accreditation may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested. Testing method is per 40 CFR 763 Subpart F, Appendix A, PLM. Samples will be disposed of in 90 days.

Polarized Light Analysis Results Table I Project

	Date	alyst	195		
,	us Rui	Ar	1/31	KZ	snoa
	Mineral Fibrous Synthetic Other NonFibrous Run Date	Material	100 % 1/31/95	ú	Homogeneous
	c Other N	Fibers	i	Misc. Par	1
estos	Syntheti	Fibers	Y	Grains,	
Nonasbestos	Fibrous	Glass	ì	aint, Fine	
-	Mineral	Wool		F-Spar, P.	
		ellulose	<1 Tr %	NFM: Qtz, Carb, Opaq, Hbl, Gyp, F-Spar, Paint, Fine Grains, Misc. Part.	
-		zinolite C	,	, Opaq, F	
		molite Ac		Qtz, Carb	
		ite Tre		FM:	
Asbestos		cidolite Anthophyllite Tremolite Actinolite Cellulose Wool Glass Fibers Fibers Material Analyst		Z	
1		cidolite A			
		nosite Cro			
		ile An			
		Chryso			
		umber			
		Client Sample Number Chrysotile Amosite	045.20-010		
	1	C au	3	SIPT	
	Sample Number	The Annearance	524565CPL	hite coarse plaste	
	Camir	Comme	1524	Whit	

Wellen Shar Authorized Signature_ Date

(510) 486-8319 (510) 486-0927 Friday, Eebruary 3, 1995 Phone Fax

RJ Lee Group, Inc.
Berkeley

2424 Sixth Street Berkeley, CA 94710

Page: 1 of 1

P B S ENVIRONMENTAL

RECEIVER

TRANSMITTAL AND CHAIN OF CUSTODY FOR BULK SAMPLES

oject No. 7045.20

ENDER

ividuals signing this form warrant that the information that is applicable to their title is correct and complete. The Sender uld keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the der. Receiver shall report damage of package immediately to Sender.

Pate Sent: January 27, 1995 PBS Environmental Attn: Page 20 South Findlay Signature, WA 98108 Page 206) 233-9639	treet	COMPANY P	BS Laboratory 220 S.W. Morrison #600 ortland, OR 97205
- 1 11'	Services / 37/95	Name CLLE	- CHAMBE HERAMPE 30 JAN 1995
Sender's ID No. 7045.20-00: 7045.20-00: 7045.20-00: 7045.20-00: 7045.20-00: 7045.20-00: 7045.20-00: 7045.20-00:	2 2 3 4 5 5 5 7 7 8 9		Receiver's ID No. 95-00-407



AA Lead Paint Chip Sampling Information

AA Lead Paint Chip Bulk Sample Inventory
AA Lead Paint Chip Sample Laboratory Data Sheets
Chain of Custody

AA LEAD PAINT CHIP SAMPLE INVENTORY

PBS Sample #	Paint Color / Component or Substrate	Sample Location	Results (mg/kg)	Results (%)	<u>Lab</u>
40535.494 -CPb01	Off-white / Wood / Covebase	1st Floor; South entry	13000	1.3	NVL
40535.494 -CPb02	White / Wood / Window frame	1st Floor; West elevation	60000	6.0	NVL
40535.494 -CPb03	Blue / Wood / Siding	1st Floor; West elevation	260000	26	NVL
40535.494 -CPb04	Off-white / Plaster / Wall	1st Floor; West central room, closet	290	0.029	NVL
40535.494 -CPb05	Cream / Wood / Stairs	Top of attic stairwell	540000	54	NVL
40535.494 -CPb06	Off-white / Plaster / Wall	Attic room; South wall	370	0.037	NVL
40535.494 -CPb07	Off-white / Wood / Base	1st Floor; West central room	190	0.019	NVL
40535.494 -CPb08	Off-white / Fiberboard / Wall	1st Floor; South entry	320	0.032	NVL

June 30, 2021



Ferman Fletcher

PBS Environmental - Seattle
214 E Galer St. Suite. 300

Seattle, WA 98102

NVL Batch # 2111527.00

RE: Total Metal Analysis

Method: EPA 7000B Lead by FAA <paint>

Item Code: FAA-02

Client Project: 40535.494 Location: Carlyon House

Dear Mr. Fletcher,

NVL Labs received 8 sample(s) for the said project on 6/30/2021. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely.

Shalini Patel, Lab Supervisor

Enc.: Sample results







Analysis Report

Total Lead (Pb)

Client: PBS Environmental - Seattle Address: 214 E Galer St. Suite. 300 Seattle, WA 98102

•

Attention: Mr. Ferman Fletcher

Project Location: Carlyon House



Batch #: 2111527.00

Matrix: Paint

Method: EPA 3051/7000B Client Project #: 40535.494 Date Received: 6/30/2021

Samples Received: 8 Samples Analyzed: 8

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
21076325	40535.494-CPb01	0.1933	52	13000	1.3
21076326	40535.494-CPb02	0.1811	55	60000	6.0
21076327	40535.494-CPb03	0.2025	49	260000	26
21076328	40535.494-CPb04	0.1844	54	290	0.029
21076329	40535.494-CPb05	0.1930	52	540000	54
21076330	40535.494-CPb06	0.1949	51	370	0.037
21076331	40535.494-CPb07	0.1829	55	190	0.019
21076332	40535.494-CPb08	0.1955	51	320	0.032

Sampled by: Client

Analyzed by: Yasuyuki Hida Date Analyzed: 06/30/2021 Reviewed by: Shalini Patel Date Issued: 06/30/2021

Shalini Patel, Lab Supervisor

Du

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

'<' = Below the reporting Limit

RL = Reporting Limit

Note: Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2021-0630-7

FAA-02

LEAD LABORATORY SERVICES



		PBS Environmental - Sea 214 E Galer St. Suite. 30 Seattle, WA 98102		TAT 1 Day Rush TAT	AH No	
Proje	ect Manager	Mr. Ferman Fletcher				
	Phone	(206) 233-9639		Email ferman.fletcher@	⊉pbsusa.com	
	Cell	(206) 491-1389		Fax (866) 727-0140		
Pro	ject Name/	Number: 40535.494	Project Loc	cation: Carlyon House		
Subc	ategory Fla	ame AA (FAA)				
lte	m Code FA	AA-02 EPA 7	7000B Lead by FAA	<paint></paint>		
To	otal Numb	per of Samples8			Rush Samples	
	Lab ID	Sample ID	Description			A/R
1	21076325	40535.494-CPb01				А
2	21076326	40535.494-CPb02				А
3	21076327	40535.494-CPb03				А
4	21076328	40535.494-CPb04				А
5	21076329	40535.494-CPb05				А
6	21076330	40535.494-CPb06			·	Α
7	21076331	40535.494-CPb07				А
8	21076332	40535.494-CPb08				Α

	Print Name	Signature	Company	Date	Time
Sampled by	Client	_			
Relinquished by	Drop Box				
Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Fatima Khan		NVL	6/30/21	800
Analyzed by	Yasuyuki Hida		NVL	6/30/21	
Results Called by					
☐ Faxed ☐ Emailed					
Special Instructions:		'			

Date: 6/30/2021 Time: 8:48 AM Entered By: Kelly AuVu



Project: Carlyon House		Project #: <u>40535.494</u>
Analysis requested:AAS for P		Date: 6/29/21
Relinq'd by/Signature:	73/	Date/Time: 6/29/21
Received by/Signature:	a stations	Date/Time: 630 61 8,000 01
E-mail results to:		
☐ Brian Stanford	Cel Alvarez	Mike Smith
Willem Mager	Janet Murphy	🔀 Ferman Fletcher
Gregg Middaugh	☐ Kaitlin Soukup	☐ Holly Tuttle
Mark Hiley	Martin Estira	Ryan Hunter
☐ Tim Ogden	Justin Day	Eman Jabali
Prudy Stoudt-McRae	Michelle Dodson	
E-mail all invoices to: seattleap@pbs	usa.com	
TURN AROUND TIME:		
1 Hour	24 Hours	3-5 Days
2 Hours	48 Hours	Other
4 Hours		

	SAMPLE DAT	TA FORM	
Sample #	Material	Location	Lab
40535.494- CPb01	Off-White/Wood/Covbase	1st Floor; S. Entry	NVI
-CPb02	White/Wood/Window Frame	1 st Floor W. Elevation	
-CPb03	Blue/Wood/Siding	1 st Floor, W. elevation	
CPb04	Off-White/Plaster/Wall	1st Floor; W. Central Room; Closet	
CPb05	Cream/Wood/Stairs	Top Of Attic Stairwell	
-CPb06	Off-White/Plaster/Wall	Attic Room; S. Wall	
-CPb07	Off-White/Wood/Base	1st Floor; W. Central Room	
CPb08	Off-White/Fiberboard/Wall	1st Floor; S. Entry	
			-



Certifications

THIS IS TO CERTIFY THAT

FERMAN L FLETCHER

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

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

Course Date:

04/01/2021

M PBS

Portland, OR

Course Location:

IR-21-8539B

Certificate:

For verification of the authenticity of this certificate contact:

PBS Engineering and Environmental Inc. 4412 S Corbett Avenue

4412 S Corbett Avenue Portland, Oregon 97239

503.248.1939

CCB #SRA0615 4-Hr Training

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

Expiration Date: 04/01/2022

ander Figury

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT

TIM OGDEN

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR REFRESHER

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

Course Date:

04/01/2021

M PBS

Portland, OR

Course Location:

IR-21-2008A Certificate:

For verification of the authenticity of this certificate contact:

PBS Engineering and Environmental Inc. 4412 S Corbett Avenue

Portland, Oregon 97239

503.248.1939

of Toxic Substance Control Act (TSCA)

Expiration Date:

Emergency Response Act enacting Title II Training; AHERA is the Asbestos Hazard

4-Hour AHERA Inspector Refresher

CCB #SRA0615 4-Hr Training

Culus Lidey

Andy Fridley, Instructor