

Pre-Demolition Hazardous Building Materials Survey

Residential Structure

408 NW Lake Road

Camas, WA 98607

Prepared for:

City of Camas

General Information	1.1
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Sample Inventories	2.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered



May 2021

Project No.: 23212.003

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PBSUSA.COM

GENERAL INFORMATION

BUILDING DATA

Residential Structure
408 NW Lake Road
Camas, WA 98607

CLIENT DATA

City of Camas
616 NE 4th Avenue
Camas, WA 98607

BACKGROUND INFORMATION

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a pre-demolition hazardous building materials survey of accessible building areas in accordance with WAC 296-62-07721 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast and mercury light tube inspection
- Inspection summary
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the building; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.

PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Joe Lucas

Project Manager

Accreditation #: IRO-21-3527B

 Digitally signed by
Joe Lucas
Date: 2021.05.25
09:47:22 -07'00'

Signature

Date

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INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
3/30/2021	Travis Long	Inspect and Sample
3/30/2021	David Toy	Inspect and Sample
5/20/2021	Joe Lucas	Final Report

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

ASBESTOS MATERIALS

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

See sample inventory for specific results.

Results	Material Description	Location	Details
(+)	Caulk	Exterior doors throughout	50 LF Non-friable Good
(+)	Cement Asbestos Board Siding	Exterior siding throughout	1,000 SF Non-friable Good

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

Material (type)	Location
3-tab Asphaltic Roofing	Roof
Fiberboard Paneling	Garage and attic
Sheet Floor Covering	Throughout restroom and kitchen
Wall and Ceiling Plaster	Throughout
Window Glazing Compound	Exterior windows throughout

INSPECTION SUMMARY

BACKGROUND

On March 30, 2021, PBS performed a pre-demolition hazardous building materials survey of a residential structure located at 408 NW Lake Road in Camas, Washington. The purpose of the survey was to identify asbestos-containing building materials, lead paint, and other building materials that may be impacted by the proposed demolition of the structure.

The site consists of a single-story, wood-framed residential structure with a shingled, pitched roof.

This survey is compiled to satisfy the requirements to perform an asbestos inspection prior to renovation or demolition activities and Occupational Safety and Health Administration (OSHA) hazard communication requirements. It is not intended to serve as an abatement specification or bidding document. The following is a summary of our findings.

ASBESTOS SUMMARY

Bulk samples of suspect asbestos-containing materials (ACM) were collected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector and submitted under chain-of-custody to Lab/Cor, Inc., of Portland, Oregon, for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

- Approximately 1,000 square feet of asbestos-containing cement board siding was observed throughout the exterior of the building.
- Approximately 50 linear feet of asbestos-containing door frame caulk. This material was observed on exterior doors throughout.

All materials sampled as part of this survey were found intact and in good condition.

Asbestos Regulatory Issues

Southwest Clean Air Agency (SWCAA) 476-040 and Washington Administrative Code (WAC) 296-62-07721 require that an asbestos survey be completed before demolition or renovation activities. These regulations also require proper removal and disposal of ACM prior to building renovation or demolition. PBS recommends that all ACM to be impacted by the project be removed prior to renovation activities. A qualified Washington State licensed asbestos abatement contractor should be employed to remove all such ACM according to applicable local, state, and federal regulations.

OSHA provides federal regulations governing asbestos (29 CFR Part 1926, 1101). These regulations have made significant changes in work procedures and how ACM are removed. OSHA believes that the single biggest problem is to workers who unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation. Work impacting asbestos is subject to the requirements of various regulations, including, but not limited to: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS); 40 CFR Part 763, AHERA; WAC 296-62 and 296-65; and local clean air agency regulations.

Materials with <1% asbestos are not regulated by the Environmental Protection Agency (EPA) and may be disposed of as general construction debris. However, workers impacting these materials must adhere to regulatory requirements outlined in WAC 296-62-17712 (2) and training as outlined in WAC 296-62-07722 (5) and WAC 296-62-0728. Personal protective equipment and proper work practices are required pending the completion of a negative exposure assessment.

INSPECTION SUMMARY

LEAD PAINT SUMMARY

Representative bulk samples of suspect paint applications were collected on selected exterior and interior building surfaces. The paint samples were submitted to a qualified laboratory for lead analysis.

Lead analysis results were 106,000 parts per million (ppm). See the lead sample inventory section of this report for representative building components and corresponding results.

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

Lead-Containing Paint Regulations

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009% or 90 ppm or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5% or 5,000 ppm. Under L&I, any lead concentration in paint that may become airborne during construction operations triggers requirements in the Lead in Construction Standard WAC 296-155-176 to protect employees impacting the paint.

INSPECTION SUMMARY

Polychlorinated Biphenyls (PCBs) Containing Components

PBS inspected representative fluorescent light fixture ballasts throughout the building and found magnetic ballasts with "No PCBs" labeling. PBS recommends all light ballasts be inspected prior to disposal. Magnetic ballasts, regardless of "No PCBs" labeling, should be presumed to contain PCBs and properly removed, stored, transported, and disposed of in accordance with applicable regulations.

Mercury Containing Components

Fluorescent lamps are known to contain mercury. PBS noted approximately 10 fluorescent lamps. Fluorescent lamps included 4-foot tubes and U-shaped lamps. PBS recommends that all fluorescent lamps be handled and recycled in accordance with applicable regulations prior to demolition activities. Breakage of lamps is to be prevented. All lamps should be properly packaged and recycled or disposed of at a facility permitted to accept such material. The Division of Occupational Safety and Health (DOSH) requires specific training, handling, engineering controls, and disposal practices when performing this work.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
23212.003-0001	Cement Asbestos Board	408 north; gray cement asbestos board		Lab Cor	
		Layer: Layer 1	Description: fibrous cementitious material, gray/green		Analysis: 20% Chrysotile
23212.003-0002	Window Glazing Compound	408 north; exterior window glaze		Lab Cor	
		Layer: Layer 1	Description: compact powdery material, off-white/tan, with paint, pink		Analysis: No Asbestos Detected
23212.003-0003	Sheet Floor Covering	408 kitchen; white sheet flooring		Lab Cor	
		Layer: Layer 01	Description: vinyl material, black/gray, with coating, off-white		Analysis: No Asbestos Detected
		Layer 02	mastic, tan, with loose particulate, brown/gray		No Asbestos Detected
		Layer 03	vinyl, off-white		No Asbestos Detected
		Layer 04	fibrous backing, tan, with thin mastic, black		No Asbestos Detected
23212.003-0004	Wall and Ceiling Plaster	408 living room; plaster		Lab Cor	
		Layer: Layer 01	Description: fine compact powder, white, with paint, white		Analysis: No Asbestos Detected
		Layer 02	granular compact powder, tan		No Asbestos Detected
		Layer 03	granular compact powder, gray		No Asbestos Detected
		Layer 04	fine compact powder, off-white/tan, with paint, white		No Asbestos Detected
		Layer 05	hard compact powder, white		No Asbestos Detected
23212.003-0005	Textured Ceiling Material	408 living room; ceiling texture		Lab Cor	
		Layer: Layer 1	Description: loose particulate, off-white/tan/gray		Analysis: No Asbestos Detected
23212.003-0006	Sheet Floor Covering	408 bathroom; white sheet floor		Lab Cor	
		Layer: Layer 01	Description: vinyl, off-white/black		Analysis: No Asbestos Detected
		Layer 02	fibrous backing, gray/tan		No Asbestos Detected
		Layer 03	mastic, tan		No Asbestos Detected
		Layer 04	vinyl, black/green, with fibrous particulate, gray/brown		No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
23212.003-0007	Caulk		408 interior; main door, white caulk	Lab Cor	
		Layer: Layer 1	Description: soft rubbery material, off-white/tan/pink		Analysis: No Asbestos Detected
23212.003-0008	Caulk		408 exterior; main door, gray caulk	Lab Cor	
		Layer: Layer 1	Description: compact powdery material, gray		Analysis: 2% Chrysotile
23212.003-0009	Fiberboard		408 garage; tan fiberboard	Lab Cor	
		Layer: Layer 01	Description: coating, off-white		Analysis: No Asbestos Detected
		Layer: Layer 02	Description: compressed fibers, tan/gray		Analysis: No Asbestos Detected
23212.003-0010	Built-up Roofing		408 roof; built-up roofing	Lab Cor	
		Layer: Layer 01	Description: rocky fibrous tar, black/green/gray		Analysis: No Asbestos Detected
		Layer: Layer 02	Description: fibrous tar, black/brown		Analysis: No Asbestos Detected
23212.003-0011	Fiberboard		408 attic; tan fiberboard	Lab Cor	
		Layer: Layer 1	Description: compressed fibrous material, tan/green/gray		Analysis: No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB23212.003-1001	Paint	106,000 ppm	South exterior, wood window trim, purple, poor condition	R.J. Lee Group



PLM - Visual Estimate Extended Final Report

Job Number: 211101

Client: PBS Engineering and Environmental

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

Report Number: 211101R01

Report Date: 4/1/2021

Project Name:

Project No.: 23212.003 Phase 0003

PO Number:

Sub Project:

Reference No.:

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

Lab/Cor Sample #	Client Sample # and Description	Analysis	Analysis Notes	Date Received:
211101 - S1	23212.003-0001 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S2	23212.003-0002 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S3	23212.003-0003 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S4	23212.003-0004 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S5	23212.003-0005 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S6	23212.003-0006 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S7	23212.003-0007 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S8	23212.003-0008 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S9	23212.003-0009 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S10	23212.003-0010 -	PLM - Visual Estimate Extended		3/31/2021
211101 - S11	23212.003-0011 -	PLM - Visual Estimate Extended		3/31/2021



PLM - Visual Estimate Extended Final Report

Job Number: 211101

Client: PBS Engineering and Environmental

Project Name:

Report Number: 211101R01

Report Date: 4/1/2021

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

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

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

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

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

The following estimate of error for this method by visual estimation of asbestos percent are as follows:

- 1% asbestos: >0-3% error,
- 5% asbestos: 1-9% error,
- 10% asbestos: 5-15% error,
- 20% asbestos: 10-30% error.

Sincerely,



Tim Cammann
Senior Analyst

BULK SAMPLE ASBESTOS ANALYSIS

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

Report Number: 211101R01
Report Date: 04/01/2021

Job Number: 211101

P.O. No: n/a

Project Name:

Project Number: 23212.003 Phase 0003

Project Notes:

Client Sample ID: 23212.003-0001	Sample ID: S1	Date Analyzed: 04/01/2021	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous fibrous cementitious material, gray/green	100 % 20 % - -		20 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 80 %
	- - - - -		

Client Sample ID: 23212.003-0002	Sample ID: S2	Date Analyzed: 04/01/2021	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous compact powdery material, off-white/tan, with paint, pink	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix 100 %
	- - - - -		

Client Sample ID: 23212.003-0003	Sample ID: S3	Date Analyzed: 04/01/2021	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 vinyl material, black/gray, with coating, off-white	20 % - - -		NAD
Layer 02 mastic, tan, with loose particulate, brown/gray	20 % - - -		NAD
Layer 03 vinyl, off-white	30 % - - -		NAD
Layer 04 fibrous backing, tan, with thin mastic, black	30 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- 6 % - - -		94 %
Layer 02	- 15 % - Trace -		85 %
Layer 03	- - - - -		100 %
Layer 04	- 60 % - - -		40 %



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

Report Number: 211101R01
Report Date: 04/01/2021

Job Number: 211101

P.O. No: n/a

Project Name:

Project Number: 23212.003 Phase 0003

Project Notes:

<u>Client Sample ID:</u>	23212.003-0004		<u>Sample ID:</u>	S4		<u>Date Analyzed:</u>	04/01/2021		<u>Analyst:</u>	Tim Cammann	
<u>Client Sample Description:</u>											
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:			
Layer 01 fine compact powder, white, with paint, white	5 %	-	-	-				NAD			
Layer 02 granular compact powder, tan	10 %	-	-	-				NAD			
Layer 03 granular compact powder, gray	40 %	-	-	-				NAD			
Layer 04 fine compact powder, off- white/tan, with paint, white	5 %	-	-	-				NAD			
Layer 05 hard compact powder, white	40 %	-	-	-				NAD			
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix				
Layer 01	-	-	-	-	-		100 %				
Layer 02	-	-	-	-	-		100 %				
Layer 03	-	-	-	-	-		100 %				
Layer 04	-	-	-	-	-		100 %				
Layer 05	-	-	-	-	-		100 %				

<u>Client Sample ID:</u>	23212.003-0005		<u>Sample ID:</u>	S5		<u>Date Analyzed:</u>	04/01/2021		<u>Analyst:</u>	Tim Cammann	
<u>Client Sample Description:</u>											
<u>Asbestos Mineral Fibers</u>	Layer Percent:	Chrysotile	Amosite	Crocidolite				Percent Asbestos:			
Homogeneous loose particulate, off- white/tan/gray	100 %	-	-	-				NAD			
<u>Other Fibers</u>	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix				
	-	3 %	-	-	-		97 %				

Asbestos and Environmental Analysis

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

Report Number: 211101R01
Report Date: 04/01/2021

Job Number: 211101

P.O. No: n/a

Project Name:

Project Number: 23212.003 Phase 0003

Project Notes:

Client Sample ID: 23212.003-0006	Sample ID: S6	Date Analyzed: 04/01/2021	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Layer 01 vinyl, off-white/black	25 % - - -		NAD
Layer 02 fibrous backing, gray/tan	25 % - - -		NAD
Layer 03 mastic, tan	25 % - - -		NAD
Layer 04 vinyl, black/green, with fibrous particulate, gray/brown	25 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
Layer 01	- - - - -		100 %
Layer 02	- 50 % - - -		50 %
Layer 03	- 10 % - - -		90 %
Layer 04	- - - - -		100 %

Client Sample ID: 23212.003-0007	Sample ID: S7	Date Analyzed: 04/01/2021	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous soft rubbery material, off- white/tan/pink	100 % - - -		NAD
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		100 %

Client Sample ID: 23212.003-0008	Sample ID: S8	Date Analyzed: 04/01/2021	
Client Sample Description:		Analyst: Tim Cammann	
Asbestos Mineral Fibers	Layer Percent: Chrysotile Amosite Crocidolite		Percent Asbestos:
Homogeneous compact powdery material, gray	100 % 2 % - -		2 %
Other Fibers	Fibrous Glass Cellulose Mineral Wool Synthetic Other		Matrix
	- - - - -		98 %



Asbestos and Environmental Analysis

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

Report Number: 211101R01
Report Date: 04/01/2021

Job Number: 211101

P.O. No: n/a

Project Name:

Project Number: 23212.003 Phase 0003

Project Notes:

Client Sample ID: 23212.003-0009	Sample ID: S9	Date Analyzed: 04/01/2021	Analyst: Tim Cammann			
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01	coating, off-white	8 %	-	-	-	NAD
Layer 02	compressed fibers, tan/gray	92 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	95 %	-	-	-	5 %

Client Sample ID: 23212.003-0010	Sample ID: S10	Date Analyzed: 04/01/2021	Analyst: Tim Cammann			
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Layer 01	rocky fibrous tar, black/green/gray	80 %	-	-	-	NAD
Layer 02	fibrous tar, black/brown	20 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	15 %	3 %	-	-	-	82 %
Layer 02	-	80 %	-	-	-	20 %

Client Sample ID: 23212.003-0011	Sample ID: S11	Date Analyzed: 04/01/2021	Analyst: Tim Cammann			
Client Sample Description:						
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:	
Homogeneous	compressed fibrous material, tan/green/gray	100 %	-	-	-	NAD
Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	95 %	-	-	-	5 %



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23212.003 Phase 0003

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

SENDER

Date Sent: March 30, 2021

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

Alex Johnson

Name: [Signature] Date: 2021.03.30
15:24:17 -07'00'
Authorized Signature Date Time

RECEIVER

Date Received: 3/31/21

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

Name: Katie Schultz
[Signature] 3/31/21 1:05PM
Authorized Signature Date Time

Table with 2 columns: Sender's ID No. and Brief Description. Rows 23212.003-0001 to 23212.003-0011.

Table with 1 column: Receiver's ID No. Rows corresponding to Sender's ID No.

21110121



TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 11 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:

TLo

LABORATORY REPORT

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

 Attn: Alex Johnson
 Phone: 503-248-1939

Email: alex.johnson@pbsusa.com

 RJ Lee Group Job No.: PA010420210008
 Samples Received: April 1, 2021
 Report Date: April 6, 2021
 Client Project: 23212.003 Phase 0001
 Purchase Order No.: N/A
 Matrix: Solid
 Prep/Analysis: EPA 3050B / EPA 6010C-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB23212.003-1001	PA010420210008-001	NP	Lead	10.6	106000	0.246	2460	4/2/2021	A

Comments:
Report Qualifiers (Q):

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

A : AIHA-LAP, LLC Accredited (Lab ID 100364)

— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accreditations

E = Value above highest calibration standard

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

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

H = Holding times for preparation or analysis exceeded

B = Analyte detected in the associated Method Blank

S = Spike Recovery outside accepted limits

R = RPD (relative percent difference) outside accepted limits

D = RL (reporting limit verification) outside accepted limits

NP = Not Provided

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

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

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



 Philip Grindle
 Laboratory Supervisor



TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23212.003 Phase 0001

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

SENDER

Date Sent: March 30, 2021

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

Joe Lucas

Name

Joe Lucas 3/30/21

Authorized Signature

Date

RECEIVER

Date Received: 04/01/21 0930

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

M. Scully

Name

M. Scully 04/01/21

Authorized Signature

Date

Sender's ID No.

LB23212.003-1001

Brief Description

Receiver's ID No.

ANALYSIS REQUESTED:

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

Please analyze the enclosed 1 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

72 Hour

SPECIAL INSTRUCTIONS:

Joe.Lucas@pbsusa.com

THIS IS TO CERTIFY THAT
JOE LUCAS
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: 01/18/2021

Course Location: Portland, OR

Certificate: IRO-21-3527B



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: 01/18/2022

For verification of the authenticity of this certificate contact:

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue
Portland, Oregon 97239
503.248.1939

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

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT

DAVID TOY

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: 09/24/2020

Course Location: Portland, OR

Certificate: IR-20-5627B



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: 09/24/2021

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

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

Andy Fridley, Instructor

THIS IS TO CERTIFY THAT
TRAVIS LONG
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: 10/13/2020

Course Location: Portland, OR

Certificate: IRO-20-7022B



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: 10/13/2021

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

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

Andy Fridley, Instructor