BLUESTONE ENVIRONMENTAL, NW

September 12, 2023

Low Income Housing Institute
Mr. John Torrence
1253 S. Jackson St., Ste. A
Seattle, WA 98144

Subject: **Asbestos and Hazardous Materials Survey**
Project Number BE-0157-A
7th Avenue Property
710 7th Avenue South
Seattle, WA 98104

Dear Mr. Torrence:

Bluestone Environmental NW is pleased to present this Asbestos and Hazardous Materials Survey report. This report provides documentation for the identified materials found in/on the structure located on the Subject Property. We appreciate the opportunity to provide our services on this project. Please let us know if you have any comments regarding the findings of this report or if we can provide you with any additional assistance for this project.

Sincerely,
Bluestone Environmental NW

Dan Hatch
President

Haley M. Carter, LG
AHERA Building Inspector

Asbestos and Hazardous Materials Survey

7th Avenue Property
710 7th Avenue South
Seattle, WA 98104

September 12, 2023

Prepared for:
Low Income Housing Institute

Prepared by:
Bluestone Environmental NW
27177 185th Ave SE, Suite 111-224
Covington, WA 98042

TABLE OF CONTENTS

1 Introduction

This report presents the results of an asbestos and hazardous materials survey of the structure located at 710 7th Avenue South, Seattle, Washington (the Property). There is one structure present on the Property that was developed in 1960.

The purpose of the survey was to identify asbestos-containing material (ACM) and other hazardous materials that must be removed prior to planned demolition of the building or that will require special handling at demolition. The asbestos survey was conducted to comply with the asbestos good-faith survey requirements of the Puget Clean Air Agency (PSCAA), Washington Administrative Code (WAC) 296-62-077, and U.S. Environmental Protection Agency National Emissions Standards for Hazardous Air Pollutants (NESHAPS) found in 40 CFR Part 61.

2 Survey Activities

Activities performed for this survey included the following:

- Visual reconnaissance of the structure to identify potential ACM and homogenous areas of potential ACM.
- Submission of samples to a certified laboratory for asbestos analysis utilizing polarized light microscopy (PLM) methodology.
- Inventory of liquid-filled electrical equipment or other materials that are assumed to contain PCBs that require special handling at demolition.
- Sampling of predominant interior and exterior paints for lead analysis to evaluate lead in the potential demolition waste stream.
- Preparation of this report.

3 Building Description

The Property is developed with an approximately 19,350 square-foot warehouse building currently occupied by City Produce on the first/ground floor and La Mi Nail Supply on the second floor. The building is of masonry construction with a flat roof.

4 Methodology

4.1 Asbestos

Homogeneous areas of suspect ACM were identified by visual reconnaissance of the structure. A homogeneous area contains materials that are uniform in color,

construction/application date, texture, and general appearance. A general layout of the building and sampling locations are shown on the attached Figure 2.

Homogeneous areas of suspect asbestos were rated for friability based on the procedures specified in the Asbestos Hazards Emergency Response Act (AHERA). Friable ACM is considered ACM that when dry, can be crumbled, disintegrated, or reduced to powder by hand pressure or by forces expected to act upon the material during demolition, renovation, or disposal. AHERA also specifies the minimum number of samples to be collected and analyzed to prove that a suspect ACM is not asbestos containing and defines suspect ACM as one of three categories: “surfacing material” (e.g., fireproofing, ceiling textures), “thermal system insulation” (TSI), and miscellaneous materials (anything other than surfacing materials or TSI).

Bluestone personnel obtained representative bulk material samples on August 23, 2023. The survey personnel were certified building inspectors pursuant to AHERA. The number of samples collected for each homogeneous area of suspect ACM was determined based on AHERA protocol, and on the discretion of the inspectors.

Each collected sample was assigned a unique sample identification number consisting of a homogeneous area number, and a consecutive sample number for each homogeneous area (HGA). For example, Sample H2-2 is sampled from HGA 3 (dark brown vinyl sheet flooring in the warehouse bathroom and breakroom) and is the second sample collected from this homogenous area.

Bulk samples were delivered to NVL Laboratories (NVL) in SeaTac, Washington for asbestos analysis. ACM samples were analyzed for asbestos by NVL using polarized light microscopy (PLM) with dispersion staining (method EPA 600/R-93/166). PLM is the U.S. Environmental Protection Agency (EPA)-recommended method for assessing the percentage of asbestos in building materials. PLM quantifies asbestos concentrations at between 100 percent and one percent detection levels. Levels below one percent can be stated only as “trace.” For samples containing more than one separable layer of materials, this report includes findings for each layer.

4.2 PCBs

During our survey, PCBs-suspect materials were observed. Specifically, structural building caulk on the second-floor entrance platform was considered as potential PCB containing material.

4.3 Lead

Predominate interior and exterior paints were sampled and tested for lead content. Collected paint chip samples were submitted to NVL for lead analysis by Flame AAS (SW 846 3050B/7000B).

5 Results

The sections below present our findings for asbestos and other regulated building materials.

5.1 Asbestos Survey

There were twelve homogeneous areas of suspect ACM identified in the areas of the main building surveyed. Suspect materials identified in the buildings included: vinyl sheet flooring and associated mastics, the wallboard system, ceiling texture, and several other miscellaneous items. A total of 27 samples from the building were submitted to the laboratory for PLM analysis (some samples contained multiple layers). Asbestos survey results are summarized in Table 1, and the analytical report from NVL is provided in Attachment A.

ACM was identified above 1% in two different materials from three samples, as listed in Table 1. These materials were as follows:

- 12x12 black and white vinyl tile in the warehouse storage room.
- Wallboard system on both the east and west sides of the building

The estimated quantity of these ACM is provided on Table 1. See Figure 2 for Building orientation and sampling locations.

Please note that the listed results for the ceiling texture (H9-1 through H9-5) in Table 1 are below 1%. Accordingly, this material is exempt from the disposal requirements as ACM material. Specifically, the Washington Department of Labor and Industries (L&I) interpretation of this is that the material is not considered asbestos-containing material and does not require abatement prior to demolition. However, L&I still requires that workers be protected from asbestos exposure during the demolition and renovation process.

5.1.1 Friable ACM Material

As noted on Table 1, ACM material can be friable, which means that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friability is often an

additional concern requiring supplementary precautions when handling. The designation of friable on Table 1 is as noted at the time of inspection and may not represent the forces that act upon the material during renovation or demolition.

5.2 Other Building Materials

In addition to asbestos, during this survey, assessable areas of the building were inspected for other regulated building materials that might require special handling at demolition. As discussed above, the structural caulk near the second-floor entrance was considered as potential PCB containing material. Analytical results did not report detectable concentrations of PCB in this material (not detected).

5.3 Lead

Results for the lead analysis of the on the paint chip samples collected from the exterior areas of the main building are summarized in Table 2, and laboratory results are included in Attachment A. Lead was found in samples Pb-2 and Pb-3 (the primary exterior paint), and Pb-5 (the white interior paint in the mezzanine on the second floor) at concentrations of 0.037, 0.022, and 0.0052 % weight, respectively. Demolition workers should be advised of the results so that appropriate precautions can be taken in compliance with the Lead in Construction Standard found at 29 CFR 1926.62 and corresponding regulations of the Washington Department of Labor and Industries.

The demolition debris which includes the painted materials is considered a hazardous waste if the material contains 5.0 milligrams per liter (mg/L) of leachable lead as measured by the Toxicity Characteristic Leaching Procedure (TCLP). A composite sample of the demolition debris, collected by the contractor and analyzed by the TCLP, will likely be required by area landfills prior to acceptance. Materials identified as hazardous waste must be taken to permitted hazardous waste landfills.

6 Conclusions

Two different materials/areas throughout the building were identified to have ACM.

Lead was detected in the analyzed exterior and interior building paint samples Pb-2, Pb-3, and Pb-5.

7 Recommendations

The Puget Sound Clean Air Agency (PSCAA) and Washington Department of Labor and Industries (L&I) require that asbestos-containing material be removed prior to building demolition or renovation that would otherwise disturb the material. A state-

licensed abatement contractor employing certified asbestos personnel must complete the removal of ACM. Notification to PSCAA and L&I is required prior to asbestos abatement. The asbestos abatement contractor should also be able to remove and coordinate the disposal of PCB light ballasts.

The demolition contractor and other site workers should be informed of the presence of lead-containing paint and should take appropriate precautions to prevent dust generation during demolition activities. As previously mentioned, the landfill receiving demolition debris will likely require a TCLP test. Accordingly, Bluestone recommends that a TCLP analysis of the entire waste stream be performed prior to demolition activities. TCLP sampling should include pieces of all material in the waste stream including foundation, walls, joists and beams, roofing, and other materials in representative weight. However, it is unlikely that the building materials sample will “fail” the TCLP and be considered hazardous waste.

8 Limitations of Survey

This survey is limited to the 7th Avenue Property. The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our current consulting agreement with the client. This report is solely for the use and information of our client unless otherwise noted. This document is not meant to be used as a hazardous materials specification document. Any reliance on this report by a third party is at such party's sole risk.

Some suspect ACM and other regulated building materials may not have been discovered, such as materials that would require more destructive means to access, materials that are hidden from sight, or materials that cannot be found with reasonable diligence. Additional suspect ACM or regulated building materials may be discovered during demolition and/or abatement.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. This survey was not intended to identify all potential concerns or eliminate all risk associated with the subject property. Even the most rigorous of professional studies may fail to identify all conditions or contaminants.

Attachments

Tables

Table 1
Laboratory Analytical Results: Asbestos in Building Materials
7th Avenue Property
710 7th Avenue South, Seattle, Washington 98104

HGA	Description	Samples	Results	Estimated Quantity	Friability	Comments
H1	12x12 black and white vinyl tile in the warehouse storage room	H1-1 H1-2	**3%** **2%**	200 SF	NF	Layer 2 of 2 positive for asbestos
H2	Dark brown vinyl sheet flooring in the warehouse breakroom and bathrooms	H2-1 H2-2	ND ND	NA	NF	All layers negative for asbestos.
H3	Gold vinyl sheet flooring	H3-1 H3-2	ND ND	NA	NF	All layers negative for asbestos.
H4	White sheet flooring in the shop on the second floor shoping area	H4-1 H4-2	ND ND	NA	NF	All layers negative for asbestos.
H5	12x12 vinyl tile in the shop on the second floor shopping area	H5-1 H5-2	ND ND	NA	NF	All layers negative for asbestos.
H6	8x8 vinyl floor tile under the white sheet flooring in the second floor shoping area	H6-1 H6-2	ND ND	NA	NF	All layers negative for asbestos.
H7	4" gray cove base in the shopping area and storage rooms on the second floor	H7-1 H7-2	ND ND	NA	NF	All layers negative for asbestos.
H8	Wallboard system on the west half of the building	H8-1 H8-2	**2%** **<1%**	~4,000 SF	NF	Layers 1 and 2 of 3 potisive for asbestos Layer 1 of 3 potisive for asbestos
H9	Ceiling texture	H9-1 H9-2 H9-3 H9-4 H9-5	ND ND ND **<1%** ND	NA	NF	Layer 2 of 2 positive for asbestos in sample H9-4. Only H9-4 contained 2 layers, all other samples had only 1 layer.
H10	Wallboard system on the east half of the building	H10-1 H10-2	**2%**	~4,000 SF	NF	Layers 1 and 2 of 3 potisive for asbestos.
H11	Blue/gray carpet and mastic in the storage rooms on the east side of the second floor	H11-1 H11-2	ND ND	NA	NF	All layers negative for asbestos.
H12	Beige vinyl sheet flooring in the bathroom on the east side of the second floor.	H12-1 H12-2	ND ND	NA	NF	All layers negative for asbestos.

Notes:
Sample results reported as "positive" where found to contain greater than 1% of any form of asbestos when analyzed by polarized light microscopy.

HGA	Homogeneous material
NF	Non-friable
F	Frible: when dry, can be crumbled, pulverized, or reduced to powder by hand pressure
SF	Square feet
NA	Not applicable
ND	Not detected in sample
PC	Point Count percentage. The point count method results are listed rather than the PLM results for those samples which were analyzed by both methods.

Red Bold results indicate material tested positive as asbestos containing material (ACM)

Reported quantities are estimates only, and should be confirmed for bid estimation and abatement purposes.

Table 2
Lead Analysis Results
7th Avenue Property
710 7th Avenue South, Seattle, Washington 98104

Sample No.	Description	Sample Wt. (g)	Result (% wt)	Sample Area (sq in)	Substrate
Pb-1	White interior paint in the warehouse on the first floor	0.1845	<0.0054	1	Paint
Pb-2	Tan exterior paint on the west side of the building	0.2027	**0.037**	1	Paint
Pb-3	Tan exterior paint on the east side of the building	0.2189	**0.022**	1	Paint
Pb-4	Black interior paint in the mezzanine on the second floor	0.1982	<0.0050	1	Paint
Pb-5	White interior paint in the mezzanine on the second floor	0.2215	**0.0052**	1	Paint

Notes:

<0.0080 Lead was not detected above the shown detection limit.

90 Lead was detected above the laboratory detection limit.

Figures

Site Location Maps

7th Avenue Property

710 7th Avenue South

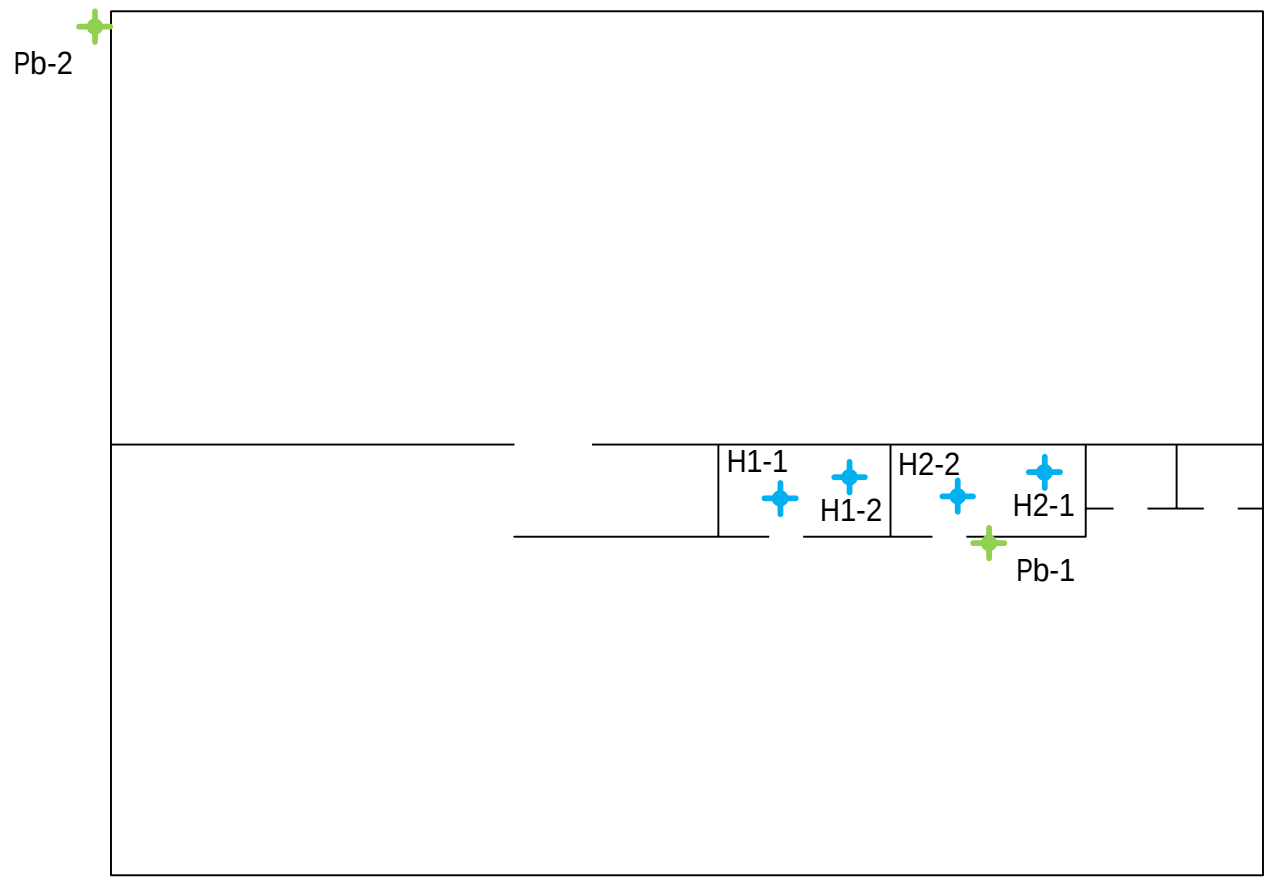
Seattle, WA 98104

Figure 1

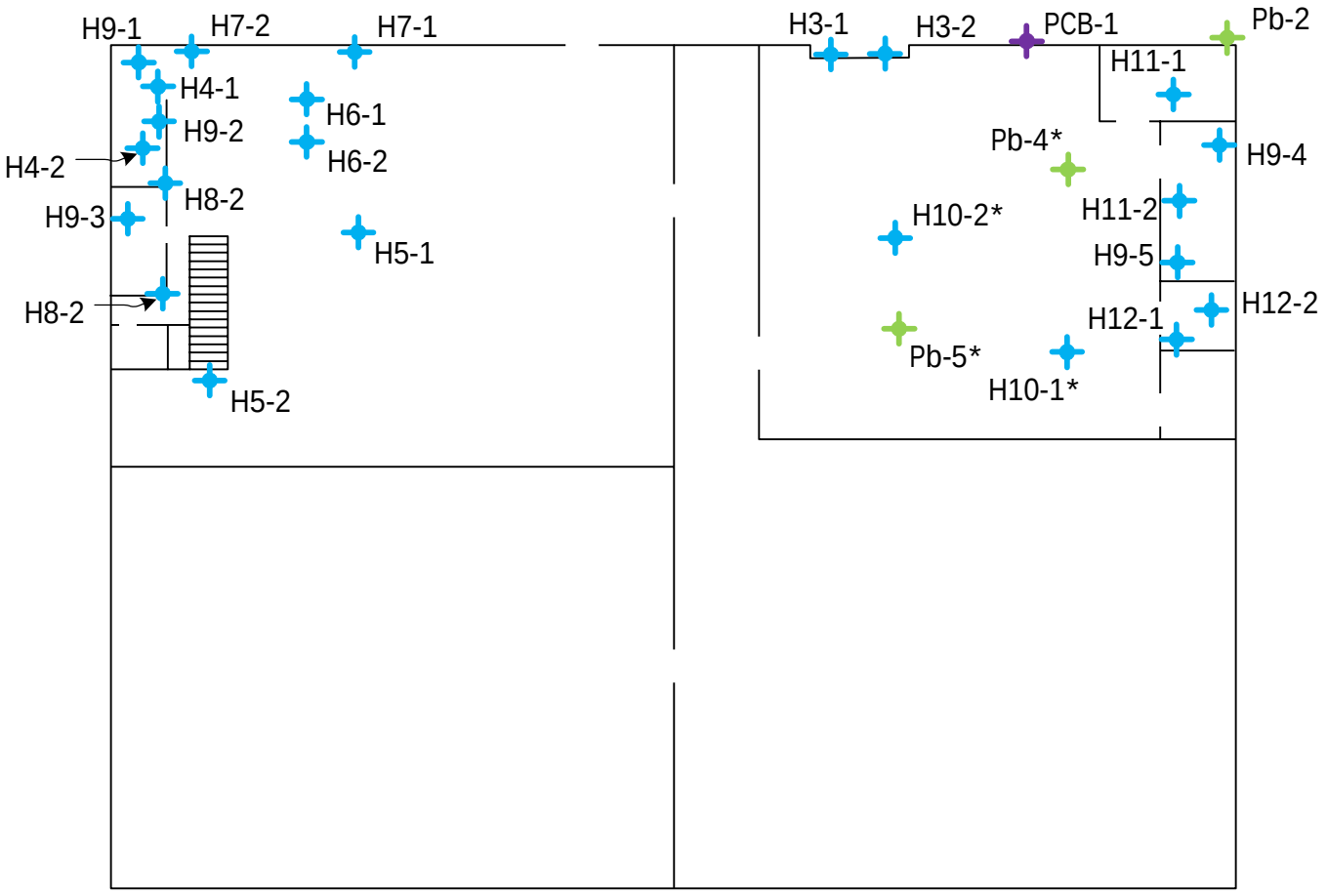
Drawing References: Getty Image, King County iMaps, Google Maps

Project No. BE-0157-A Figure 1.vsdx

First Floor



Second Floor



General Legend

- Suspect ACM Sample Location
- Lead Paint Sample Location
- Suspect PCB Containing Material Sample Location
- * Sample Taken from the Mezzanine
- Building Outline

Hazardous Materials Sample Locations

7th Avenue Property
710 7th Avenue South, Seattle, WA

Figure and notations are in color. Black and white copies may not be suitable for use.

Figure 2

N

Scale: 1" = 20'

0 ft. 12 ft. 20 ft. 40 ft.

BLUESTONE ENVIRONMENTAL, NW

Project No. BE-0157-A Figure 2.vsdx

Drawing References: Bluestone Measurements

Attachment A

August 28, 2023

Haley Carter
Bluestone Environmental, LLC
20204 SE 284th St
Kent, WA 98042

NVL Batch # 2313513.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: BE-0157-A
Location: Seattle

Dear Ms. Carter,

NVL Labs received 5 sample(s) for the said project on 8/23/2023. 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, Manager Metals Lab

Enc.: Sample results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313513.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 5
Samples Analyzed: 5

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
23082374	Pb-1	0.1845	54	< 54	<0.0054
23082375	Pb-2	0.2027	49	370	0.037
23082376	Pb-3	0.2189	46	220	0.022
23082377	Pb-4	0.1982	50	< 50	<0.0050
23082378	Pb-5	0.2215	45	52	0.0052

Sampled by: Client
Analyzed by: Yasuyuki Hida
Reviewed by: Shalini Patel

Date Analyzed: 08/28/2023
Date Issued: 08/28/2023

Shalini Patel, Manager Metals Lab

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit
'<' = Below the reporting Limit

Bench Run No: 2023-0828-02
FAA-02

LEAD LABORATORY SERVICES

Company	Bluestone Environmental, LLC	**NVL Batch Number**	**2313513.00**
Address	20204 SE 284th St	**TAT**	5 Days **AH** No
	Kent, WA 98042	**Rush TAT**	
Project Manager	Ms. Haley Carter	**Due Date**	8/30/2023 **Time** 5:00 PM
Phone	(253) 951-2024	**Email**	hcarter@bluestonenw.com
		Fax	

Project Name/Number: BE-0157-A **Project Location:** Seattle

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 5 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	23082374	Pb-1		A
2	23082375	Pb-2		A
3	23082376	Pb-3		A
4	23082377	Pb-4		A
5	23082378	Pb-5		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Courier				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	8/23/23	1700
Analyzed by	Yasuyuki Hida		NVL	8/28/23	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/24/2023
Time: 8:03 AM
Entered By: Kelly AuVu

2313513

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

METALS CHAIN OF CUSTODY

Turn Around Time
- ❑ 2 Hour ❑ 4 Hours ❑ 24 Hours
- ❑ 2 Days ❑ 3 Days ❑ 4 Days
- ~~❑ 5 Days~~ ❑ 6-10 Days
- Please call for TAT less than 24 Hours

Company: Bluestone Environmental NW
Project Manager: Haley Carter
Address: 27177 185th Ave SE, Suite 111-224
Cell: (248-924-1991
Covington, WA 98042
Email: hcarter@bluestonenw.com
Phone: 253-951-2024
Fax: ( ) -

Project Name/Number: BE-0157-A
Project Location: Seattle

- X Total Metals ❑ TCLP
- ~~❑~~ FAA (ppm ❑ ICP (PPM ❑ GFAA (ppb) ❑ CVAA (ppb)
- ❑ Air Filter ❑ Paint Chips (cm) ❑ Drinking Water ❑ Other
- ❑ Paint Chips (%) ❑ Dust Wipes ❑ Waste Water ❑ Soil
- RCRA 8: ❑ Barium ❑ Chromium ❑ Silver ❑ Arsenic ❑ Mercury ~~❑~~ Lead ❑ Selenium ❑ Cadmium
- RCRA 11: ❑ Copper ❑ Zinc ❑ Other

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples ____

	Sample ID	Description	A/R
1	Pb-1	interior white paint	
2	Pb-2	exterior tan paint	
3	Pb-3	↓	
4	Pb-4	interior black paint	
5	Pb-5	interior white paint	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	HALEY CARTER		BLUESTONE	8/23/23	1120
Relinquish by	HALEY CARTER		BLUESTONE	8/23/23	1155

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kenneth		NVL	8/23/23	1700 courier
Analyzed by					
Called by					
Faxed/Email by					

August 29, 2023

Haley Carter
Bluestone Environmental, LLC
20204 SE 284th St
Kent, WA 98042

NVL Batch # 2313514.00

RE: Organics PCB
Method: 8082 PCB Aroclors <Bulk>
Item Code: ORG-05

Client Project: BE-0157-A
Location: Seattle

Dear Ms. Carter,

Enclosed please find test results for samples submitted to our laboratory for analysis. Preparation and analysis of these samples were conducted in accordance with published industry standards and methods specified on the attached analytical report.

The content of this package consists of the following:

-Case Narrative & Definition of Data Qualifiers
-Analytical Test Results
-Applicable QC Summary
-Client Chain-of-Custody (CoC)
-NVL Receiving Record

The report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client will be discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance, please contact us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Shalini Patel, Manager Metals Lab

Enc.: Sample results

NVL Batch # 2313514.00

Case Narrative:

The following summarizes samples received on date as shown on the accompanied Chain of custody by NVL Laboratories, Inc. from Bluestone Environmental, LLC for Project Number BE -0157-A. Samples were logged in for PCB analysis per client request using both customer sample ID's and laboratory assigned ID's as listed on the Chain-of-Custody (CoC). All samples as received were processed and analyzed within specified turnaround time without any abnormalities and deviations that may affect the analytical results. All quality control requirements were acceptable unless stated otherwise. The conditions of all samples were acceptable at time of receipt and all samples submitted with this batch were analyzed unless stated otherwise on the CoC.

Test Results are reported in milligrams per kilogram (mg/kg) for PCB samples as shown on the analytical reports.

NVL Batch # 2313514.00

Definition Appendix

Terms

% Rec	Percent recovery.
<	Below Reporting Limit(RL) or Limit of Quantitation(LoQ) of the instrument.
B	Blank contamination. The recorded results is associated with a contaminated blank.
DF	Dilution Factor
J	The reported concentration is an estimated value because something may be present in the sample that interfered with the analysis.
J1	The reported concentration is an estimated value because the laboratory control sample (LCS) is out of control limits.
J2	The reported concentration is an estimated value because the percent recovery for matrix spike is out of control limits.
J3	The reported concentration is an estimated value because the relative percent difference(RPD) for duplicate analysis is out of control limits.
J4	Percent recovery is outside of established control limits.
LCS	Laboratory Control Sample.
LFS	Laboratory Fortified Spike
Limits	The upper and lower control limits for spike recoveries.
LN	Quality control sample is outside of control limits. This analyte was not detected in the sample.
LOQ	Limit of quantitation(same as RL)
mg/kg	Milligrams per kilogram.
ND	Analyte not detected or below the reporting limit of the instrument or methodology

NVL Batch # 2313514.00

Definition Appendix

Terms

PPM	Parts per Million.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
R	The data are not reliable due to possible contamination or loss of material during preparation or analysis. Re-sampling and reanalysis are necessary for verification.
RL	Reporting Limit. The minimum concentration that can be quantified under routine operating conditions.
RPD	Relative Percent Difference. The relative difference between duplicate results(matrix spike, blank spike, or samples duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements(see RPD).
SSMI	Surrogate has matrix interference.
Spike Conc	The measured concentration, in sample basis units, of a spiked sample.
SURR-ND	Surrogate was not detected due to matrix interference or dilution.
ug/m^3	Micrograms per cubic meter.
ug/100cm^2	Micrograms per hundred square centimeter.

Analysis Report

Polychlorinated Biphenyls by Gas Chromatography

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313514.00
Matrix: Bulk
Analysis Method: EPA 8082
Preparation Method: EPA 3546
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 1
Samples Analyzed: 1

Sample Number	**PCB-1**		
Lab Sample ID	23082379	Matrix	Bulk
Initial Sample Size	2.0398 gm	Units of Result	mg/Kg

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.98	< 0.98	8/24/2023
Aroclor-1221	0.98	< 0.98	8/24/2023
Aroclor-1232	0.98	< 0.98	8/24/2023
Aroclor-1242	0.98	< 0.98	8/24/2023
Aroclor-1248	0.98	< 0.98	8/24/2023
Aroclor-1254	0.98	< 0.98	8/24/2023
Aroclor-1260	0.98	< 0.98	8/24/2023
PCBs, Total	**0.98**	**< 0.98**	

Quality Control Results

Client Project #: BE-0157-A

Batch #: 2313514.00
Project Manager: Ms. Haley Carter

Preparation Method: EPA 3546
Preparation Date: 8/24/2023

Analysis Method: EPA 8082
Analysis Description: Polychlorinated Biphenyls by Gas Chromatography

Blank: 2313514

Analyte	Blank Results	Units	DF	RL	Control Limit	Qualifiers
Aroclor-1016	ND	mg/Kg	1	1.00	1.00	
Aroclor-1221	ND	mg/Kg	1	1.00	1.00	
Aroclor-1232	ND	mg/Kg	1	1.00	1.00	
Aroclor-1242	ND	mg/Kg	1	1.00	1.00	
Aroclor-1248	ND	mg/Kg	1	1.00	1.00	
Aroclor-1254	ND	mg/Kg	1	1.00	1.00	
Aroclor-1260	ND	mg/Kg	1	1.00	1.00	
PCBs, Total	**ND**	**mg/Kg**	**1**			
Surrogates:				% Rec		
Tetrachloro-m-xylene			1	99	40-140	
Decachlorobiphenyl			1	100	40-140	

Lab Control Sample: LCS 1254-2313514

Analyte	Blank Spike Results	Units	DF	Spike Conc	% Rec	Limits	Qualifiers
Aroclor-1254	18	mg/Kg	1	20.00	90	40-140	
Surrogates:							
Tetrachloro-m-xylene			1		99	40-140	
Decachlorobiphenyl			1		110	40-140	

Lab Control Sample: LCS 1016+1260-2313514
Lab Control Sample Duplicate: LCS Dup 1016+1260

Analyte	Blank Spike Results	Units	DF	Spike Conc	% Rec	Limits	RPD %	RPD Limit	Qualifiers
Aroclor-1016	24	mg/Kg	1	20.00	120	40-140			
	24			20.00	120	40-140	3	50%	
Aroclor-1260	26	mg/Kg	1	20.00	130	40-140			
	26			20.00	130	40-140	3	50%	
Surrogates:									
Tetrachloro-m-xylene			1		88	40-140			
					81	40-140			
Decachlorobiphenyl			1		120	40-140			
					92	40-140			

* Recovery outside of control limits

Bench Run No: 2023-0824-2

ORG-05

Surrogate Recovery Summary Report

Client Bluestone Environmental, LLC **Batch #** 2313514.00

Project BE-0157-A

Customer Sample ID	Lab Sample ID	Analyte	Recovery	Limits
PCB-1	23082379	Decachlorobiphenyl	83%	40-140
PCB-1	23082379	Tetrachloro-m-xylene	72%	40-140

*Recovery outside of the limits

NVL Batch # 2313514.00

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Sample	Analyzed	Analyte	Target	Solution Conc	Unit	% Rec	Limits
ICV-1016	8/24/2023	Aroclor-1016	5.0	5.30	ug/mL	106	85-115
ICV-1254	8/24/2023	Aroclor-1254	5.0	5.54	ug/mL	111	85-115
ICV-1260	8/24/2023	Aroclor-1260	5.0	5.34	ug/mL	107	85-115
CCV1-1016	8/24/2023	Aroclor-1016	5.0	4.64	ug/mL	93	80-120
CCV1-1254	8/24/2023	Aroclor-1254	5.0	4.68	ug/mL	94	80-120
CCV1-1260	8/24/2023	Aroclor-1260	5.0	4.99	ug/mL	100	80-120
CCV2-1016	8/24/2023	Aroclor-1016	5.0	4.33	ug/mL	87	80-120
CCV2-1254	8/24/2023	Aroclor-1254	5.0	4.37	ug/mL	87	80-120
CCV2-1260	8/24/2023	Aroclor-1260	5.0	4.68	ug/mL	94	80-120

% Rec - Percent recovery

* Percent recovery not within control limits

Bench Run No: 2023-0824-2

ORG-05

ORGANICS LABORATORY SERVICES

NVL

Company	Bluestone Environmental, LLC	**NVL Batch Number**	**2313514.00**
Address	20204 SE 284th St Kent, WA 98042	**TAT** 5 Days	**AH** No
		Rush TAT	
Project Manager	Ms. Haley Carter	**Due Date** 8/30/2023	**Time** 5:00 PM
Phone	(253) 951-2024	**Email**	hcarter@bluestonenw.com
		Fax	

Project Name/Number: BE-0157-A **Project Location:** Seattle

Subcategory Quantitative analysis

Item Code ORG-05 8082 PCB Aroclors <Bulk>

Total Number of Samples 1 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	23082379	PCB-1		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Courier				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	8/23/23	1700
Analyzed by	Evelyn Ahulu		NVL	8/24/23	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/24/2023
Time: 8:07 AM
Entered By: Kelly AuVu

2313514

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

PCB'S CHAIN OF CUSTODY

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 24 Hours
- ❑ 2 Days
- ❑ 3 Days
- ❑ 4 Days
- ☒ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company Bluestone Environmental NW
Project Manager Haley Carter
Address 27177 185th Ave SE, Ste 111-224
Covington, WA 98042
Cell (248-924-1991
Email hcarter@bluestonenw.com
Phone 253-951-2024
Fax ( ) -

Project Name/Number BE-0157-A
Project Location Seattle

- ❑ PCB's Air
- ☒ PCB's Bulk
- ❑ PCB Wipe
- ❑ PCB BTEX

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples ____

	Sample ID	Description	A/R
1	PCB-1	Structural Building Caulk	
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	HALEY CARTER		BLUESTONE	8/23/23	1120
Relinquish by	HALEY CARTER		BLUESTONE	8/23/23	1155

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by					
Analyzed by					
Called by					
Faxed/Email by					

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Lab ID: 23082208 **Client Sample #: H1-1**
Location: Seattle
Comments: Confirmation by TEM is recommended for layer 1 due to limitation of PLM to detect fibers below 0.25 microns.

Layer 1 of 2	**Description:** White vinyl tile with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains, Debris	None Detected	ND	None Detected ND
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Debris	Cellulose	3%	Chrysotile 3%

Lab ID: 23082209 **Client Sample #: H1-2**
Location: Seattle
Comments: Confirmation by TEM is recommended for layer 1 due to limitation of PLM to detect fibers below 0.25 microns.

Layer 1 of 2	**Description:** White vinyl tile with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains, Debris	None Detected	ND	None Detected ND
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Debris	Cellulose	4%	Chrysotile 2%

Lab ID: 23082210 **Client Sample #: H2-1**
Location: Seattle
Comments: Insufficient sample amount of layer 3 for thorough analysis.

Layer 1 of 3	**Description:** Dark brown sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Foamy material	Glass fibers	3%	None Detected ND

Sampled by: Client
Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Layer 2 of 3 **Description:** Yellow adhesive with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Adhesive/Binder, Debris	Cellulose	4%	None Detected ND

Layer 3 of 3 **Description:** Black asphaltic mastic (trace amount) with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles, Debris	None Detected	ND	None Detected ND

Lab ID: 23082211 **Client Sample #: H2-2**

Location: Seattle

Comments: Insufficient sample amount of layer 3 for thorough analysis.

Layer 1 of 3 **Description:** Dark brown sheet vinyl

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Vinyl/Binder, Foamy material	Glass fibers	4%	None Detected ND

Layer 2 of 3 **Description:** Yellow adhesive with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Adhesive/Binder, Debris	Synthetic fibers	3%	None Detected ND
	Cellulose	3%	

Layer 3 of 3 **Description:** Black asphaltic mastic (trace amount) with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles, Debris	None Detected	ND	None Detected ND

Lab ID: 23082212 **Client Sample #: H3-1**

Location: Seattle

Layer 1 of 3 **Description:** Light tan sheet vinyl with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Vinyl/Binder, Foamy material, Debris	None Detected	ND	None Detected ND

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Layer 2 of 3	**Description:** Gray fibrous backing with adhesive & debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic/Binder	Cellulose	35%	None Detected ND
	Debris	Glass fibers	14%	
Layer 3 of 3	**Description:** Dark gray brittle material with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mineral grains, Fine grains	Cellulose	2%	None Detected ND
	Debris			

Lab ID: 23082213 **Client Sample #: H3-2**
Location: Seattle

Layer 1 of 4	**Description:** Light tan sheet vinyl with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Foamy material, Debris	None Detected	ND	None Detected ND
Layer 2 of 4	**Description:** Gray fibrous backing with adhesive & debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic/Binder	Cellulose	34%	None Detected ND
	Debris	Glass fibers	12%	
Layer 3 of 4	**Description:** Dark gray brittle material with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mineral grains, Fine grains	Cellulose	<1%	None Detected ND
	Debris			
Layer 4 of 4	**Description:** Off-white sandy material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mineral grains, Fine grains	Cellulose	<1%	None Detected ND

Sampled by: Client
Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Lab ID: 23082214 **Client Sample #: H4-1**
Location: Seattle
Comments: Insufficient sample amount of layer 2 for thorough analysis.

		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Layer 1 of 2	**Description:** Off-white sheet vinyl	Vinyl/Binder, Foamy material	Glass fibers	3%	None Detected ND
Layer 2 of 2	**Description:** Clear adhesive (trace amount)	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Adhesive/Binder	None Detected	ND	None Detected ND

Lab ID: 23082215 **Client Sample #: H4-2**
Location: Seattle
Comments: Insufficient sample amount of layer 3 for thorough analysis.

		Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Layer 1 of 3	**Description:** Off-white sheet vinyl with debris	Vinyl/Binder, Foamy material, Debris	Glass fibers	2%	None Detected ND
Layer 2 of 3	**Description:** Clear adhesive with debris	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Adhesive/Binder, Debris	Cellulose	4%	None Detected ND
Layer 3 of 3	**Description:** Black asphaltic mastic (trace amount) with debris	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
		Asphalt/Binder, Asphaltic Particles, Debris	None Detected	ND	None Detected ND

Lab ID: 23082216 **Client Sample #: H5-1**
Location: Seattle

Sampled by: Client
Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Green vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains	None Detected	ND	None Detected ND
Layer 2 of 2	**Description:** Yellow mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Debris	Cellulose	3%	None Detected ND

Lab ID: 23082217 **Client Sample #: H5-2**
Location: Seattle

Layer 1 of 2	**Description:** Green vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains	None Detected	ND	None Detected ND
Layer 2 of 2	**Description:** Yellow mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Debris	Cellulose	4%	None Detected ND

Lab ID: 23082218 **Client Sample #: H6-1**
Location: Seattle

Comments: Confirmation by TEM is recommended for layer 1 due to limitation of PLM to detect fibers below 0.25 microns.

Layer 1 of 2	**Description:** White thin vinyl tile with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains, Debris	None Detected	ND	None Detected ND
Layer 2 of 2	**Description:** Black thin asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Debris	Cellulose	<1%	None Detected ND

Sampled by: Client
Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Lab ID: 23082219 **Client Sample #: H6-2**
Location: Seattle

Comments: Confirmation by TEM is recommended for layer 1 due to limitation of PLM to detect fibers below 0.25 microns.

Layer 1 of 2	**Description:** White thin vinyl tile with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Mineral grains, Debris	None Detected	ND	None Detected ND
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Debris	Cellulose	3%	None Detected ND

Lab ID: 23082220 **Client Sample #: H7-1**
Location: Seattle

Layer 1 of 3	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	None Detected ND
Layer 2 of 3	**Description:** Pale yellow mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Debris	Synthetic fibers	4%	None Detected ND
		Cellulose	3%	
Layer 3 of 3	**Description:** White compacted powdery material with paper & paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	Cellulose	24%	None Detected ND

Lab ID: 23082221 **Client Sample #: H7-2**
Location: Seattle

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Layer 1 of 3	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	None Detected ND
Layer 2 of 3	**Description:** Pale yellow mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Debris	Cellulose	3%	None Detected ND
Layer 3 of 3	**Description:** White compacted powdery material with paper & paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	Cellulose	25%	None Detected ND

Lab ID: 23082222 **Client Sample #: H8-1**
Location: Seattle

Layer 1 of 3	**Description:** Off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose	2%	Chrysotile 2%
Layer 2 of 3	**Description:** Off-white thin compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	31%	Chrysotile <1%
Layer 3 of 3	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose	25%	None Detected ND
		Cellulose	4%	

Lab ID: 23082223 **Client Sample #: H8-2**
Location: Seattle

Sampled by: Client
Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Layer 1 of 3 **Description:** Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose <1%	Chrysotile <1%

Layer 2 of 3 **Description:** Off-white thin compacted powdery material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles	Cellulose 33%	None Detected ND

Layer 3 of 3 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine particles	Cellulose 26%	None Detected ND
	Cellulose 3%	

Lab ID: 23082224 **Client Sample #: H9-1**
Location: Seattle

Layer 1 of 1 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose 2%	None Detected ND

Lab ID: 23082225 **Client Sample #: H9-2**
Location: Seattle

Layer 1 of 1 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose <1%	None Detected ND

Lab ID: 23082226 **Client Sample #: H9-3**
Location: Seattle

Layer 1 of 1 **Description:** White compacted powdery material with fibrous mesh, paper & paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	Cellulose 25%	None Detected ND

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

		Glass fibers 12%	

Lab ID: 23082227 **Client Sample #: H9-4**
Location: Seattle

Layer 1 of 2	**Description:** White compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose 2%	None Detected ND
Layer 2 of 2	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose <1%	Chrysotile <1%

Lab ID: 23082228 **Client Sample #: H9-5**
Location: Seattle

Layer 1 of 1	**Description:** White compacted powdery material with paper & paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose 25%	None Detected ND

Lab ID: 23082229 **Client Sample #: H10-1**
Location: Seattle

Layer 1 of 3	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose <1%	Chrysotile <1%
Layer 2 of 3	**Description:** Off-white compacted powdery material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose 25%	Chrysotile 2%
Layer 3 of 3	**Description:** White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose 25%	None Detected ND

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

		Glass fibers 3%	

Lab ID: 23082230 **Client Sample #: H10-2**
Location: Seattle

Layer 1 of 3	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose 2%	Chrysotile 2%
Layer 2 of 3	**Description:** Off-white compacted powdery material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose 24%	Chrysotile <1%
Layer 3 of 3	**Description:** White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Gypsum/Binder, Fine particles	Cellulose 24%	None Detected ND
		Glass fibers 3%	

Lab ID: 23082231 **Client Sample #: H11-1**
Location: Seattle

Layer 1 of 2	**Description:** Multi-colored woven fibrous material with beige mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic/Binder	Synthetic fibers 72%	None Detected ND
Layer 2 of 2	**Description:** Tan mastic with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Debris	Synthetic fibers 7%	None Detected ND

Lab ID: 23082232 **Client Sample #: H11-2**
Location: Seattle

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Layer 1 of 3	**Description:** Multi-colored woven fibrous material with beige mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mastic/Binder	Synthetic fibers	74%	None Detected ND
Layer 2 of 3	**Description:** Tan mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Debris	Synthetic fibers	8%	None Detected ND
Layer 3 of 3	**Description:** Gray brittle material with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Debris	None Detected	ND	None Detected ND

Lab ID: 23082233 **Client Sample #: H12-1**
Location: Seattle

Layer 1 of 2	**Description:** Beige sheet vinyl with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Foamy material, Debris	Glass fibers	4%	None Detected ND
Layer 2 of 2	**Description:** Yellow adhesive with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Adhesive/Binder, Debris	Cellulose	3%	None Detected ND

Lab ID: 23082234 **Client Sample #: H12-2**
Location: Seattle

Layer 1 of 2	**Description:** Beige sheet vinyl with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Foamy material, Debris	Glass fibers	3%	None Detected ND
Layer 2 of 2	**Description:** Yellow adhesive with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Adhesive/Binder, Debris	Synthetic fibers	4%	None Detected ND

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Bluestone Environmental, LLC
Address: 20204 SE 284th St
Kent, WA 98042

Attention: Ms. Haley Carter
Project Location: Seattle

Batch #: 2313478.00
Client Project #: BE-0157-A
Date Received: 8/23/2023
Samples Received: 27
Samples Analyzed: 27
Method: EPA/600/R-93/116

Cellulose	2%

Sampled by: Client

Analyzed by: Kunga Woser **Date:** 08/30/2023

DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

ASBESTOS LABORATORY SERVICES

Company	Bluestone Environmental, LLC	**NVL Batch Number**	**2313478.00**
Address	20204 SE 284th St Kent, WA 98042	**TAT** 5 Days **Rush TAT**	**AH** No
Project Manager	Ms. Haley Carter	**Due Date** 8/30/2023	**Time** 12:00 PM
Phone	(253) 951-2024	**Email**	hcarter@bluestonenw.com
		Fax	

Project Name/Number: BE-0157-A **Project Location:** Seattle

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 27 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	23082208	H1-1		A
2	23082209	H1-2		A
3	23082210	H2-1		A
4	23082211	H2-2		A
5	23082212	H3-1		A
6	23082213	H3-2		A
7	23082214	H4-1		A
8	23082215	H4-2		A
9	23082216	H5-1		A
10	23082217	H5-2		A
11	23082218	H6-1		A
12	23082219	H6-2		A
13	23082220	H7-1		A
14	23082221	H7-2		A
15	23082222	H8-1		A
16	23082223	H8-2		A
17	23082224	H9-1		A
18	23082225	H9-2		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Shazia Hasan		NVL	8/23/23	1200
Analyzed by	Kunga Woser		NVL	8/30/23	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/23/2023
Time: 12:10 PM
Entered By: Shazia Hasan

ASBESTOS LABORATORY SERVICES

Company	Bluestone Environmental, LLC	**NVL Batch Number**	**2313478.00**
Address	20204 SE 284th St Kent, WA 98042	**TAT** 5 Days	**AH** No
		Rush TAT	
Project Manager	Ms. Haley Carter	**Due Date** 8/30/2023	**Time** 12:00 PM
Phone	(253) 951-2024	**Email**	hcarter@bluestonenw.com
		Fax	

Project Name/Number: BE-0157-A **Project Location:** Seattle

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 27 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	23082226	H9-3		A
20	23082227	H9-4		A
21	23082228	H9-5		A
22	23082229	H10-1		A
23	23082230	H10-2		A
24	23082231	H11-1		A
25	23082232	H11-2		A
26	23082233	H12-1		A
27	23082234	H12-2		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Shazia Hasan		NVL	8/23/23	1200
Analyzed by	Kunga Woser		NVL	8/30/23	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/23/2023
Time: 12:10 PM
Entered By: Shazia Hasan

2313478

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 24 Hours
- ❑ 2 Days
- ❑ 3 Days
- ❑ 4 Days
- ☒ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company: Bluestone Environmental NW
Project Manager: Haley Carter
Address: 27177 185th Ave SE. Suite 111-224
Covington, WA 98042
Cell: (248-924-1991
Email: hcarter@bluestonenw.com
Phone: 253-951-2024
Fax: ( ) -

Project Name/Number: BE-0157-A
Project Location: Seattle

- ☒ PCM Air (NIOSH 7400)
- ❑ PLM (EPA 600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ TEM (NIOSH 7402)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ TEM (AHERA)
- ❑ Other
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples 27

	Sample ID	Description	A/R
1	H1-1	12x12 black & white Vinyl tile	
2	H1-2	↓	
3	H2-1	Dark Brown vinyl sheet flooring	
4	H2-2	↓	
5	H3-1	Gold vinyl sheet flooring	
6	H3-2	↓	
7	H4-1	white & vinyl sheet flooring	
8	H4-2	↓	
9	H5-1	12x12 Green vinyl flooring tile	
10	H5-2	↓	
11	H6-1	8x8 white vinyl tile	
12	H6-2	↓	
13	H7-1	4" Gray cove base	
14	H7-2	↓	
15	H8-1	wallboard system (west side)	

	Print Name	Signature	Company	Date	Time
Sampled by	HALEY CARTER	Haley Carter	BLUESTONE	8/23/23	1120
Relinquish by	HALEY CARTER	Haley Carter	BLUESTONE	8/23/23	1155

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Suzy		M	8/23/23	12:00
Analyzed by					
Called by					
Faxed/Email by					

2313478

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ❑ 1 Hour
- ❑ 2 Hours
- ❑ 4 Hours
- ❑ 24 Hours
- ❑ 2 Days
- ❑ 3 Days
- ❑ 4 Days
- ☒ 5 Days
- ❑ 10 Days

Please call for TAT less than 24 Hours

Company: Bluestone Environmental NW
Project Manager: Haley Carter
Address: 27177 185th Ave SE. Suite 111-224
Covington, WA 98042
Cell: (248-924-1991
Email: hcarter@bluestonenw.com
Phone: 253-951-2024
Fax: ( ) -

Project Name/Number: BE-0157-A
Project Location: Seattle

- ❑ PCM Air (NIOSH 7400)
- ❑ TEM (NIOSH 7402)
- ❑ TEM (AHERA)
- ❑ TEM (EPA Level II Modified)
- ☒ PLM (EPA 600/R-93-116)
- ❑ EPA 400 Points (600/R-93-116)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ PLM Gravimetry (600/R-93-116)
- ❑ Asbestos in Vermiculite (EPA 600/R-04/004)
- ❑ Asbestos in Sediment (EPA 1900 Points)
- ❑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ❑ Other

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples 27

	Sample ID	Description	A/R
1	H8-2	Wallboard system (West)	
2	H9-1	Ceiling Texture	
3	H9-2	↓	
4	H9-3		
5	H9-4		
6	H9-5		
7	H10-1	Wallboard System (East)	
8	H10-2	↓	
9	H11-1	Blue/Gray Carpet + Mastic	
10	H11-2	↓	
11	H12-1	Beige vinyl sheet flooring	
12	H12-2	↓	
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	HALEY CARTER		BLUESTONE	8/23/23	~~11~~ 1140
Relinquish by	HALEY CARTER		BLUESTONE	8/23/23	1155

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by					
Analyzed by					
Called by					
Faxed/Email by					

Attachment B

Certificate of Completion

This is to certify that

Haley Carter

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

186238
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Sep 8, 2022 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Tracy Greene

Instructor: Tracy Greene

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM