REGULATED BUILDING MATERIAL INSPECTION

PORT OF FRIDAY HARBOR JENSEN BOATYARD SELECT BUILDINGS 1293 TURN POINT ROAD FRIDAY HARBOR, WASHINGTON

Prepared by EMB Consulting, LLC May 15, 2023





Project Title: REGULATED BUILDING MATERIAL INSPECTION

PORT OF FRIDAY HARBOR

JENSEN BOATYARD SELECT STRUCTURES 1293 TURN POINT ROAD

FRIDAY HARBOR, WASHINGTON

Prepared for: LEON ENVIRONMENTAL, LLC

EMB Consulting Project #: 1730

Elisabeth Black Certified Industrial Hygienist EMB Consulting, LLC

E. Block

Issue date: MAY 15, 2023



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ATTACHMENTS

Table 1: Bulk Asbestos Sample Results

Table 2: TCLP-Lead Sample Results

Table 3: Bulk PCB Sample Results

Table 4: Other Regulated Building Materials

Attachment A: Laboratory Report of Asbestos Results

EMLab P&K May 9, 2023

Attachment B: Laboratory Report of TCLP-Lead and PCB Results

ALS Environmental

May 9, 2023



REGULATED BUILDING MATERIAL INSPECTION PORT OF FRIDAY HARBOR JENSEN BOATYARD SELECT STRUCTURES 1293 TURN POINT ROAD FRIDAY HARBOR, WASHINGTON

1.0 INTRODUCTION

This regulated building material (RBM) inspection report presents the results for asbestos-containing materials (ACMs), lead in demolition debris (TCLP-Lead), polychlorinated biphenyls (PCBs), and an inventory of other regulated building materials for select structures at the former Jensen Boatyard (Site) at 1293 Turn Point Road in Friday Harbor, Washington.

The structures on the Site that are covered by this inspection are limited to the following: Boat Building (BB), Office (Off), and Bays (Bay 1, Bay 2, and Bay 3). This work was conducted to provide a good faith survey in anticipation of demolition or renovation of the structures on Site to support future plans of the Port of Friday Harbor.

The report is organized to provide a Site description, regulations, inspection methods, results, and conclusions. Attachments provide results tables and laboratory reports.

2.0 SITE DESCRIPTION

This RBM inspection is limited to the five structures described below and located at the east end of Friday Harbor Bay (Bay) between Turn Point Road and the Bay. A Google Earth aerial image has been modified to demonstrate the layout of the five structures on the property.





Information about the structures was provided by San Juan County Assessor records and Todd Nicholson of the Port of Friday Harbor. Because the structures are of varying ages, use, and construction, each structure will be addressed independently, with a summary of construction details and a photograph.

2.1 Boat Building

The former Boat Building (BB) is a two-level wooden frame building built on piles on a slight slope near the Bay coastline. The south portion of the building is embedded in the slope, but the north portion sits on piles to accommodate tidal influx. The entire building frame and siding are wood. There are wooden frame windows on the east and west walls. The building roof has multiple layers of granulated tar paper roofing.

The building interior is unfinished, with exposed wood floors, walls, and roof tresses. Some equipment remains inside the structure, to include an old oven in the west first level space. Fluorescent lighting units were visible through open walls.

The east portion of the building collapsed in 2022, so at the time of this inspection there was a sprawling debris pile of wood, roofing, and windows extending onto the ground to the east. The building could not be entered during this inspection, as it is no longer structurally sound.

The age of the building is unknown as of this writing, but is estimated to be 50 years old or older.



North side of Boat Building





West side of Boat Building

2.2 Office Building

The Office Building is a single level building consisting of three rooms, to include a large workshop on the west side of the building, with a small toolroom in the southeast corner, a small office in the northeast corner. A hallway on the east side of the building links all three rooms.

The building has a concrete slab foundation with partial concrete walls around the exterior. The walls above the concrete are wooden frame with wooden siding. The wooden siding on the upper exterior walls is covered with granulated asphalt paper or corrugated metal. The roof is pitched wooden frame with corrugated aluminum. There are wooden frame windows along the north and south building walls.

The workshop, toolroom, and hallway have bare concrete floors and exposed wooden walls and framing. There is a chimney in the southeast corner of the workshop, where a wood stove was recently removed. The office has recently been finished with wood paneling over plaster walls. The office floor is covered by brown 9' x 9' vinyl floor tiles.

The age of the building is unknown as of this writing, but is estimated to be 50 years old or older.





North Exterior of Office Building

2.3 Bays

To the west of the Office Building there are three simple adjoining wooden frame buildings. The eastern-most bay (Bay 1) is constructed adjacent to the Office Building. Each Bay has a concrete slab floor and corrugated metal roof. Siding is a combination of corrugated metal, wood, or corrugated fiberglass panels. The age of the Bays is unknown.





South side of Office Building and Bays 1 and 2



South side of Bay 3





West side of Bay 3

3.0 APPLICABLE REGULATIONS

3.1 Asbestos-Containing Materials

The Washington State Division of Occupational Safety and Health (DOSH) and the Environmental Protection Agency (EPA) regulate building materials that contain more than one percent asbestos as ACM for protection of human health and the environment.

DOSH also regulates worker exposure to airborne asbestos fibers during general work activities and construction and demolition activities (WAC 296-62-077). Worker exposure to airborne asbestos fibers must be below the Permissible Exposure Level (PEL) of an 8-hour time-weighted average (8-hr TWA) of 0.1 fibers/cubic centimeter (cc) of air. DOSH regulations establish engineering controls and work practices that are designed to mitigate workers exposure to asbestos in the workplace.

The Washington State Department of Ecology (Ecology) Northwest Regional Office regulates the release of airborne asbestos fibers in San Juan County. Specifically, Ecology under regulation 40 CFR Part 61.145 Standard for demolition and renovation regulates emissions of asbestos during building renovation and demolition projects. This regulation requires that an asbestos survey be conducted prior to demolition, that Ecology be notified prior to commencing with demolition activities, that ACM be removed



prior to demolition, and that asbestos-containing waste materials be properly removed and disposed of in a manner that prevents the release of airborne asbestos fibers.

In addition, the EPA requires asbestos abatement workers and supervisors to be trained and certified in accordance with Appendix C to Subpart E of 40 CFR 763. The Washington Department of Labor and Industries (L&I) also has training requirements for abatement workers in WAC 296-65. The EPA and L&I training and certification requirements apply to abatement work for buildings at the subject property.

3.2 Lead in Building Materials

Washington State requires generators of solid waste to determine whether their waste is a dangerous waste for the purpose of handling and disposing of the waste properly. For demolition debris-related waste that potentially contains lead or other heavy metals, a representative sample(s) of the debris must be analyzed by TCLP analysis in accordance with 40 CFR 261.24. Solid wastes containing leachable lead detected at a concentration of 5 milligrams per liter (mg/L) or higher must be managed and disposed of as a dangerous waste.

3.3 PCBs in Building Materials

Under the Toxics Substances Control Act (TSCA), PCB-containing building materials are considered PCB bulk product waste if the concentration of PCBs is greater than or equal to 50 parts per million (ppm). The disposal of PCB bulk product waste is regulated under 40 CFR § 761.62 of TSCA. Under this provision, PCB bulk product waste must be disposed of in one of two ways: disposal in a permitted solid waste landfill or via risk-based disposal approval process.

3.4 Other Regulated Building Materials

3.4.1 Fluorescent Light Tubes

Fluorescent light tubes may contain mercury vapor and are regulated by the State of Washington as hazardous waste lamps. Used tubes become a waste on the date they are discarded. A generator may accumulate and manage the tubes as a Universal Waste in accordance with the requirements of WAC 173-303-573. Tubes that are crushed prior to disposal must be managed and disposed of as a dangerous waste.

3.4.2 PCB-Containing Fluorescent Light Ballasts

Fluorescent light fixtures manufactured prior to 1979 may have PCB-containing ballasts inside the fixture. EPA regulates the disposal of PCB-containing ballasts under the Toxic Substances Control Act (TSCA). Ballasts that are not marked "No PCBs" or that do not contain a post-1979 date stamp must be managed and disposed of as PCB-containing ballasts. Per 40 CFR 761.60(a)(6)(iii), PCB-containing ballasts must be disposed of in a TSCA-approved landfill.



3.4.3 Mercury-Containing Thermostat Switches

Mercury-containing thermostat switches must be collected and disposed of as a dangerous waste in accordance with Chapter 173-303 WAC.

3.4.4 Universal Waste Lamps

High-intensity discharge lamps (HID) are Universal Waste Lamps and should be managed as dangerous waste because they are known to contain regulated amounts of lead as well as other metals in the base of the lamps. Mercury vapor, metal halide, and high-pressure sodium lamps are HID lamps. They are used as streetlights, emergency lighting, photography lamps, and as flood lights. A generator may accumulate and manage the lamps as Universal Waste in accordance with the requirements of WAC 173-303-573.

4.0 SURVEY METHODOLOGY

4.1 Asbestos-Containing Materials

Samples of suspect materials were collected in the field by Elisabeth Black, CIH, an AHERA-certified Building Inspector on April 26 and 27, 2023. A complete list of the samples collected, sample locations, and results is provided in Table 1 attached to this report. The figure is attached to this report. Finally, the laboratory report is attached to this report.

Sample bags were labeled at the time of sample collection with the Sample ID number. The labeled samples were then placed in a larger ZiplocTM type bag and sealed for additional protection during handling and transportation. Samples were recorded on a Chain of Custody for delivery to the laboratory for analysis.

Suspect asbestos samples and chain of custody were sent to EMLab P&K of Bothell, Washington for analysis. Suspect ACM bulk samples were analyzed using polarized light microscopy (PLM) by the Interim Method for Determination of Asbestos in Bulk Insulation Samples (EPA Method 600/M4 82 020). EMLab P&K is accredited for asbestos analysis by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP). Materials were considered to be positive for asbestos if they contained more than one percent asbestos.

For materials that were identified as ACM or assumed to be ACM, EMB Consulting calculated estimated quantities of material that will require abatement prior to demolition. ACM quantity estimates are provided in Table 1 for each structure.



4.2 TCLP-Lead

EMB Consulting collected one composite sample each for the Boat Building, Office, and a composite of the three Bays for TCLP-Lead analysis. Samples represent composites of materials intended to represent the building demolition waste stream.

TCLP-Lead samples were hand-delivered to ALS Laboratories, Incorporated, in Everett, Washington, where the samples were analyzed by toxicity characteristic leaching procedure (TCLP, EPA Method 1311/7000B). Certificates of analysis are included in Attachment B. The results of the TCLP Lead analysis are provided in Table 2.

4.3 PCBs in Building Materials

EMB Consulting collected one bulk sample of caulk from the man door on the west end of the Office building that might contain PCBs. The PCB sample and chain of custody were delivered to ALS Environmental of Everett, Washington for analysis by EPA Method 8082A. For the purposes of this report, materials containing PCBs greater than 50 mg/kg are considered PCB bulk product waste. The results of the PCB sampling are provided in Table 3. Certificates of analysis are included in Attachment B.

4.4 Other Regulated Building Materials

EMB Consulting conducted a visual inventory of each structure for other regulated building materials, to include mercury-containing fluorescent light tubes, PCB-containing fluorescent light ballasts, mercury-containing thermostat switches, transformers, and high-intensity discharge lamps. The results of the miscellaneous regulated building material inventory are provided in Table 4.

5.0 INSPECTION RESULTS

The results of the ACM, TCLP-Lead, PCB, and miscellaneous regulated building materials inspection are summarized in the following sections. All confirmed and assumed ACMs and a summary of quantities of ACM identified by EMB Consulting are presented in Table 1 in **bold** print. Table 2 summarizes the results for TCLP-lead samples. Table 3 provides results for PCBs in building materials. Finally, an inventory of other miscellaneous regulated building materials is provided in Table 4.

5.1 Boat Building

 Six samples of asphalt roofing paper were collected from the Boat Building and associated debris pile. Two samples of window putty were collected, and three samples of electrical wire wrap were collected from the Boat Building. None of the materials sampled from the Boat Building were confirmed as ACM.



- One composite sample of wood, asphalt roofing, and sheet metal was collected from the Boat Building and associated debris pile for TCLP-Lead analysis. The sample did not contain regulated concentrations of leachable lead.
- No materials suspected of containing PCBs (other than fluorescent ballasts) were identified during the inspection of the Boat Building
- 26 fluorescent bulbs were visible during the inspection of the Boat Building and an assumed 13 ballasts are associated with those fixtures. Due to the partial collapse of the building, there may be additional fluorescent fixtures in the debris pile.

5.2 Office Building

For the Office Building, two samples of exterior asphalt paper siding were collected and three samples of mortar, brick, and sealant were collected from the former wood burning stove stack. In addition, the 9" x 9" brown vinyl floor tile in the office was sampled. Only the 9" x 9" brown vinyl floor tile is confirmed ACM. There is an estimated 100 square feet of this material in the building. No other ACMs were identified during the inspection of the Office Building.





- One composite sample of wood, sheet metal, concrete, and fiberglass insulation
 was collected from the Office Building for TCLP-Lead analysis. The sample did
 not contain regulated concentrations of leachable lead.
- One sample of door sealant (caulk) was sampled and analyzed as suspect for PCBs. The sample did not contain detectable concentrations of PCBs. The laboratory limit of detection for PCBs is well below the regulatory criteria of 50 ppm.
- At the time of inspection, there were 48 fluorescent bulbs and 24 suspect ballasts in the Office Building.

5.3 Bays

- Two samples of fire brick from the former wood burning stove in the Office workroom were sampled from Bays 2 and 3 for asbestos analysis. In addition, white coating on the exterior of Bay 3 was sampled and tested for asbestos. No ACMs were identified in the Bays.
- One composite sample of wood, sheet metal, concrete, and fiberglass panel was collected from the three Bays for TCLP-Lead analysis. The sample did not contain regulated concentrations of leachable lead.
- No materials suspected of containing PCBs (other than fluorescent ballasts) were identified during the inspection of the Bays.
- At the time of inspection, there were 54 fluorescent ballasts and 28 bulbs.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Asbestos-Containing Materials

EMB Consulting identified one type of ACM during this inspection. The confirmed ACM must be removed prior to building demolition by Washington-certified asbestos abatement workers in compliance with applicable regulations.

6.2 TCLP-Lead

Based on the results of the survey for leachable lead in building materials, demolition debris from the subject structures should not require disposal as a dangerous lead-containing waste.



6.3 PCBs in Building Materials

PCBs were not detectable in the sample submitted for analysis.

6.4 Other Regulated Building Materials

The remaining regulated building materials identified in the structures must be removed and recycled or disposed of prior to building demolition. Some materials will require abatement prior to demolition and proper disposal, such as the high-intensity discharge lamps, in accordance with Chapter 173-303 WAC.





7.0 LIMITATIONS

The regulated building materials presented in this report represent those observed on the dates the environmental survey was conducted. Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. It is intended for the exclusive use of Leon Environmental and its client for specific application to this property. No other warranty, express or implied, is made.



Table 1: Bulk Asbestos Sample Results Port of San Juan Island Jensen Boatyard Structures Friday Harbor, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Estimated Material Quantity (if ACM)
BB-AP1	Asphalt Paper (black)	Boat Building Exterior E Side Debris Pile	ND	
BB-AP2	Asphalt Paper (black/silver granules)	Boat Building Exterior E Side Debris Pile	ND	
BB-AP3	Asphalt Paper (black/white granules)	Boat Building Exterior W Side Shed Roof	ND	
BB-AP4	Asphalt Paper (black/white granules	Boat Building Exterior E Side Debris Pile	ND	
BB-AP5	Asphalt Paper L1: roofing material (black) L2: shingle with granules (black/green) L3: roofing material (black)	Boat Building Exterior W Side Shed Roof	L1: ND L2: ND L3: ND	
BB-AP7	Asphalt Paper (black/grey granules)	Boat Building Exterior W Side Shed Roof	ND	
BB-WP1	Window Putty (off-white)	Boat Building Exterior W Side 2nd window from N to S	ND	

Table 1: Bulk Asbestos Sample Results Port of San Juan Island Jensen Boatyard Structures Friday Harbor, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Estimated Material Quantity (if ACM)
BB-WP2	Window Putty (off-white)	Boat Building Exterior W Side 2nd window from S to N	ND	
BB-EW1	Electrical Wire Wrap (black/white)	Boat Building Exterior NE Corner	ND	
BB-EW2	Electrical Wire Wrap (black)	Boat Building Exterior NE Corner	ND	
BB-EW3	Electrical Wire Wrap (black)	Boat Building Exterior NE Corner	ND	
Off-AP1	Asphalt Paper (black/white granules)	Office Building Exterior E Wall	ND	
Off-AP2	Asphalt Paper (black/white granules)	Office Building Exterior W Wall	ND	
Off-CB1	Chimney Brick (gray)	Office Building Interior Shop SE Comer	ND	
Off-CM1	Chimney Mortar (white)	Office Building Interior Shop SE Comer	ND	

Table 1: Bulk Asbestos Sample Results Port of San Juan Island Jensen Boatyard Structures Friday Harbor, Washington

Sample ID	Material Description (color)	Sample Location	Asbestos (in Percent)	Estimated Material Quantity (if ACM)
Off-CS1	Chimney Sealant (grey)	Office Building Interior Shop SE Corner	ND	
Off-VFT1	Vinyl Floor Tile and Mastic L1: 9x9 vinyl floor tile (brown) L2: mastic (black)	Office Building Interior Office At threshold	L1: 4% Chrysotile L2: ND	100 ft ²
Bay2-FB1	Fire Brick (white)	Bay 2 Interior Scattered on benches and floor	ND d	
Bays3-FB2	Fire Brick (white)	Bay 3 Interior On floor NW corner	ND	
Bay3-Coat	Coating (white)	Bay 3 Exterior W Wall	ND	

ACM = Asbestos-Containing Material

L = Layer

ND = Non-Detect

ft² = square feet

Table 2: TCLP Lead Sample Results Port of San Juan Island Jensen Boatyard Structures Friday Harbor, Washington

Sample ID	Composite Sample Materials	Lead (in mg/L)	EPA TCLP-Lead Regulatory Limit (in mg/L)
BB-TCLP	Wood		
	Tar Paper		
	Sheet Metal	0.038	
	Roofing		
Office-TCLP	Wood		
	Concrete		
	Sheet Metal	0.084	5.0
	Fiberglass Insulation		
Bays-TCLP	Wood		
	Sheet Metal		
	Fiberglass Siding	0.041	
	Concrete		

mg/L = milligrams per liter

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Table 3: PCB Sample Results Port of San Juan Island Jensen Boatyard Structures Friday Harbor, Washington

	Structure	Sample ID	Material Description	Sample Location		by Aroclor in g/kg	EPA Criteria in mg/kg
Office		Off-PCB	Caulk	West Door	Aroclor 1016	<0.1	
					Aroclor 1221	<0.1	
					Aroclor 1232	<0.1	
					Aroclor 1242	<0.1	
					Aroclor 1248	<0.1	50.00
					Aroclor 1254	<0.1	
					Aroclor 1260	<0.1	
					Aroclor-1268	<0.1	
					Total PCBs	not detected	

PCBs = polychlorinated biphenyls

mg/kg = milligrams per kilogram (parts per million)

5/11/23 Page 1 of 1

Table 4: Universal Waste Inventory Port of San Juan Island Jensen Boatyard Structures Friday Harbor, Washington

Building	HID Lamps	Mercury Thermostat Switches	Fluorescent Light Bulbs	Fluorescent Light Ballasts
Boat Building			26	13
Office Building			48	24
Bay 1			26	13
Bay 2			28	15
Bay 3				

5/15/23 Page 1 of 1

Attachment A
Laboratory Report of Asbestos Results
EMLab P&K
May 9, 2023



Report for:

Ms. Elisabeth Black **EM Black Consulting** 3607 219th Street SW Brier, WA 98036

Eurofins EPK Built Environment Testing, LLC Project: 1730; Jensen BY

Regarding:

dograpiel

EML ID: 3248064

Approved by:

Dates of Analysis: Asbestos PLM: 05-09-2023

Approved Signatory Marisa Braziel

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267) NVLAP Lab Code 600266-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

19515 North Creek Pkwy N, #100, Bothell, WA 98011

(866) 888-6653 www.eurofinsus.com/Built

Client: EM Black Consulting C/O: Ms. Elisabeth Black Re: 1730; Jensen BY

Date of Submittal: 05-01-2023 Date of Receipt: 05-02-2023 Date of Report: 05-09-2023

ASBESTOS PLM REPORT

Total Samples Submitted: 20

Total Samples Analyzed: 20

Lab ID-Version 15743699-1

Lab ID-Version 15743700-1

Lab ID-Version ‡: 15743701-1

Total Samples with Layer Asbestos Content > 1%:

Location: BB-AP1, Asphalt paper

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Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: BB-AP2, Asphalt paper

, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·
Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: BB-AP3, Asphalt paper

Sample Layers	Asbestos Content
Black Roofing Shingle w/ White Rocks	ND
Composite Non-Asbestos Content:	20% Glass Fibers
	10% Cellulose
Sample Composite Homogeneity:	Good

Location: BR-AP4. Asphalt paper

Location: BB-AP4, Asphalt paper	Lab ID-Version‡: 15743702-1
Sample Layers	Asbestos Content
Black Roofing Shingle w/ White Rocks	ND
Composite Non-Asbestos Content:	20% Glass Fibers
•	10% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

Lab ID-Version \$\pm\$: 15743703-1

Lab ID-Version : 15743704-1

Lab ID-Version : 15743705-1

Lab ID Version +: 157/3706 1

EMLab ID: 3248064, Page 3 of 6

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Client: EM Black Consulting C/O: Ms. Elisabeth Black Re: 1730; Jensen BY Date of Submittal: 05-01-2023 Date of Receipt: 05-02-2023 Date of Report: 05-09-2023

ASBESTOS PLM REPORT

Location: BB-AP5, Asphalt paper

Sample Layers	Asbestos Content
Black Roofing Material (1)	ND
Black Roofing Shingle w/ Green Rocks	ND
Black Roofing Material (2)	ND
Composite Non-Asbestos Content:	
	10% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: BB-AP7, Asphalt paper

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Good

Location: BB-WP1, Window putty

Sample Layers	Asbestos Content
Off-White Window Putty	ND
Sample Composite Homogeneity:	Good

Location: BB-WP2, Window putty

Location: DD 1112, 11 maon party	Data D Version 4. 137 137 00 1
Sample Layers	Asbestos Content
Off-White Window Putty	ND
Sample Composite Homogeneity:	Good

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Lab ID-Version : 15743707-1

Lab ID-Version ±: 15743708-1

Lab ID-Version 15743709-1

Lab ID-Version ±: 15743710-1

EMLab ID: 3248064, Page 4 of 6

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Date of Submittal: 05-01-2023

Date of Submittal: 03-01-202 Date of Receipt: 05-02-2023 Date of Report: 05-09-2023

Client: EM Black Consulting C/O: Ms. Elisabeth Black Re: 1730; Jensen BY

ASBESTOS PLM REPORT

Location: BB-EW1, Electrical wire wrap

Sample Layers	Asbestos Content
Black/White Wrap	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Good

Location: BB-EW2, Electrical wire wrap

	·
Sample Layers	Asbestos Content
Black Wrap	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Good

Location: BB-EW3, Electrical wire wrap

	·
Sample Layers	Asbestos Content
Black Wrap	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Good

Location: OFF-AP1. Asphalt paper

Escusion 011 in 1,125 prints paper	•
Sample Layers	Asbestos Content
Black Roofing Shingle w/ White Rocks	ND
Composite Non-Asbestos Content:	20% Glass Fibers
_	10% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

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Lab ID-Version \$\pm\$: 15743711-1

Lab ID-Version \$\pm\$: 15743712-1

Lab ID-Version 15743713-1

Lab ID-Version : 15743714-1

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Date of Submittal: 05-01-2023 Date of Receipt: 05-02-2023

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Client: EM Black Consulting C/O: Ms. Elisabeth Black Re: 1730; Jensen BY

ASBESTOS PLM REPORT

Location: OFF-AP2, Asphalt paper

Sample Layers	Asbestos Content
Black Roofing Shingle w/ White Rocks	ND
Composite Non-Asbestos Content:	
	10% Cellulose
Sample Composite Homogeneity:	Good

Location: OFF-CB1, Chimney brick

Sample Layers	Asbestos Content
Gray Brick	ND
Sample Composite Homogeneity:	Good

Location: OFF-CM1, Chimney mortar

Sample Layers	Asbestos Content
White Mortar	ND
Sample Composite Homogeneity:	Good

Location: OFF-CS1, Chimney sealant

Sample Layers	Asbestos Content
Dark Gray Sealant	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

19515 North Creek Pkwy N, #100, Bothell, WA 98011 (866) 888-6653 www.eurofinsus.com/Built

Lab ID-Version‡: 15743715-1

Lab ID-Version ±: 15743716-1

Lab ID-Version : 15743717-1

Client: EM Black Consulting C/O: Ms. Elisabeth Black Re: 1730; Jensen BY

Date of Submittal: 05-01-2023 Date of Receipt: 05-02-2023 Date of Report: 05-09-2023

ASBESTOS PLM REPORT

Location: OFF-VFT1, Vinvl floor tile

Sample Layers	Asbestos Content
Dark Brown Floor Tile	4% Chrysotile
Black Mastic	ND
Sample Composite Homogeneity: Moderate	

Location: Bay2-FB, Fire brick

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Sample Layers	Asbestos Content
Light Brown Brick	ND
Sample Composite Homogeneity:	Good

Location: Bav3-FB, Fire brick

Sample Layers	Asbestos Content
Light Brown Brick	ND
Sample Composite Homogeneity:	Good

Location: Bay3-Coat, Coating	Lab ID-Version‡: 15743718-1
Sample Layers	Asbestos Content
Gray Coating	ND
Sample Composite Homogeneity:	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

Attachment B Laboratory Report of TCLP-Lead and PCB Results ALS Environmental May 9, 2023



May 9, 2023

Ms. Elisabeth Black EMB Consulting 22725 - 44th Ave W., # 203 Mountlake Terrace, WA 98043

Dear Ms. Black,

On May 2nd, 4 samples were received by our laboratory and assigned our laboratory project number EV23050007. The project was identified as your 1730. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer

Laboratory Director



CLIENT: EMB Consulting DATE: 5/9/2023

22725 - 44th Ave W., # 203 ALS JOB#: EV23050007 Mountlake Terrace, WA 98043 ALS SAMPLE#: EV23050007-01

CLIENT CONTACT: Elisabeth Black DATE RECEIVED: 05/02/2023

CLIENT PROJECT: 1730 COLLECTION DATE: 4/28/2023 12:00:00 PM

CLIENT SAMPLE ID BB-TCLP WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Lead (TCLP)	EPA-6020/1311	0.038	0.031	6.25	MG/L	05/08/2023	RAL



CLIENT: EMB Consulting DATE: 5/9/2023

22725 - 44th Ave W., # 203 ALS JOB#: EV23050007 Mountlake Terrace, WA 98043 ALS SAMPLE#: EV23050007-02

CLIENT CONTACT: Elisabeth Black DATE RECEIVED: 05/02/2023

CLIENT PROJECT: 1730 COLLECTION DATE: 4/28/2023 12:00:00 PM

CLIENT SAMPLE ID Off-TCLP WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Lead (TCLP)	EPA-6020/1311	0.084	0.031	6.25	MG/L	05/08/2023	RAL



CLIENT: EMB Consulting DATE: 5/9/2023

22725 - 44th Ave W., # 203 ALS JOB#: EV23050007 Mountlake Terrace, WA 98043 ALS SAMPLE#: EV23050007-03

CLIENT CONTACT: Elisabeth Black DATE RECEIVED: 05/02/2023

CLIENT PROJECT: 1730 COLLECTION DATE: 4/28/2023 12:00:00 PM

CLIENT SAMPLE ID Bays-TCLP WDOE ACCREDITATION: C601

			REPORTING	DILUTION		ANALYSIS A	ANALYSIS
ANALYTE	METHOD	RESULTS	LIMITS	FACTOR	UNITS	DATE	BY
Lead (TCLP)	EPA-6020/1311	0.041	0.031	6.25	MG/L	05/08/2023	RAL



CLIENT: EMB Consulting DATE: 5/9/2023

22725 - 44th Ave W., # 203 ALS JOB#: EV23050007 Mountlake Terrace, WA 98043 ALS SAMPLE#: EV23050007-04

CLIENT CONTACT: Elisabeth Black DATE RECEIVED: 05/02/2023

CLIENT PROJECT: 1730 COLLECTION DATE: 4/28/2023 12:00:00 PM

CLIENT SAMPLE ID Off-PCB WDOE ACCREDITATION: C601

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS A	ANALYSIS By
PCB-1016	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1221	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1232	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1242	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1248	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1254	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1260	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA
PCB-1268	EPA-8082	U	0.10	1	MG/KG	05/04/2023	DBA

SURROGATE	METHOD	6REC	,	ANALYSIS AN DATE	ALYSIS BY	3
TCMX	EPA-8082	71.2		05/04/2023	DBA	
DCB	EPA-8082	77.7		05/04/2023	DBA	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: EMB Consulting DATE: 5/9/2023

22725 - 44th Ave W., # 203 ALS SDG#: EV23050007

Mountlake Terrace, WA 98043 WDOE ACCREDITATION: C601

CLIENT CONTACT: Elisabeth Black

CLIENT PROJECT: 1730

LABORATORY BLANK RESULTS

MB-050323S - Batch 193337 - Soil by EPA-8082

				REPORTING	ANALYSIS	ANALYSIS
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY
PCB-1016	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1221	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1232	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1242	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1248	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1254	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1260	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA
PCB-1268	EPA-8082	U	MG/KG	0.10	05/04/2023	DBA

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R434775 - Batch R434775 - TCLP Extract by EPA-6020

				REPORTING	ANALYSIS	ANALYSIS	
ANALYTE	METHOD	RESULTS	UNITS	LIMITS	DATE	BY	
Lead	EPA-6020	U	MG/L	0.031	05/08/2023	RAL	

U - Analyte analyzed for but not detected at level above reporting limit.



CLIENT: EMB Consulting DATE: 5/9/2023

22725 - 44th Ave W., # 203 ALS SDG#: EV23050007

Mountlake Terrace, WA 98043 WDOE ACCREDITATION: C601

CLIENT CONTACT: Elisabeth Black

CLIENT PROJECT: 1730

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 193337 - Soil by EPA-8082

				LIN	IITS	ANALYSIS	ANALYSIS BY	
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE		
PCB-1016 - BS	EPA-8082	66.8		50	150	05/04/2023	DBA	
PCB-1016 - BSD	EPA-8082	61.9	8	50	150	05/04/2023	DBA	
PCB-1260 - BS	EPA-8082	62.3		50	150	05/04/2023	DBA	
PCB-1260 - BSD	EPA-8082	59.3	5	50	150	05/04/2023	DBA	

ALS Test Batch ID: R434775 - TCLP Extract by EPA-6020

				LIN	IITS	ANALYSIS	ANALYSIS BY
SPIKED COMPOUND	METHOD	%REC	RPD QUAL	MIN	MAX	DATE	
Lead - BS	EPA-6020	98.0		87.5	107	05/08/2023	RAL
Lead - BSD	EPA-6020	100	2	87.5	107	05/08/2023	RAL

APPROVED BY

Rob Greer

Laboratory Director

Everett, WA 98208 Phone (425) 356-2600 Fax (425) 356-2626 http://www.alsglobal.com ALS Environmental 8620 Holly Drive, Suite 100

Laboratory Analysis Request Chain Of Custody/

(Laboratory Use Only)

ALS Job#

6V230S0007

	-						Date		O5-01-25Page		ğ	_	
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ADDRESS: 22725.4444 Ave LO # ADDRESS: 22725.4444 Ave LO # ADDRESS: 22725.4444 Ave LO # PHONE: 2D 6.915.239 FAX: FO. #: ATTENTION: ADDRESS: SAMPLE I.D. DATE TIME TYPE LO	АВ # 22 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	BTEX by EPA-8021 ☐ EPA-8260 ☐	Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260	EDB \ EDC P\ EbY 8560 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA-8270 SIM	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL	Metals Other (Specify) TOLP-Metals AVV Average Averag	-hy ug			UMBER OF CONTRINERS	SECEINED IN GOOD CONDILIONS
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TURNAROUND REQUESTED in Business Days* Specify: Organic, Metals & Inorganic Analysis

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*Turnaround request less than standard may inclir Bush Chara