



Technical Memorandum

To: Kara Master, Oregon DEQ Date: October 23, 2024
From: Julie Pace, Maul Foster & Alongi Project No.: M0785.30.001
Re: Limited Pre-Renovation Asbestos Survey – Burns Downtown

Maul Foster & Alongi, Inc. (MFA) prepared this Sampling Memorandum to present the purpose, scope of work, field findings, and analytical results from the asbestos-containing materials (ACM) survey performed at the Burns Downtown Building at 506 N Broadway Avenue (tax lot 23S31E07-CA-06900) in Burns, Oregon (the Site; Figures 1 and 2).

Purpose

The building was reportedly constructed in 1955,¹ and is a single-story brick, concrete, and wooden framed structure. The total square footage of the building is approximately 7,500 square feet and has been owned and operated by the Burns Paiute Tribe since at least 2022. The building at the Site is slated for renovation into the Tribe's cultural and heritage center. The future uses of the center will include a museum, cafe, workforce development spaces, and a loan office to provide personal and business loans to tribal members. The building is currently vacant until renovations are completed. To prevent further water damage to interior building finishes, the roof needs to be replaced.

An ACM survey was previously completed for the structure in 2024, which was detailed in the Sampling and Analysis Plan.² The prior survey findings identified several ACMs on the roof of the building including silver exterior paint on a chimney, black tar adjacent to the chimney, and roof vents, and it presumed that concealed layers of the entire roof structure may contain asbestos.¹ To confirm the presumption of the presence of ACM in the concealed roofing layers, this limited additional inspection and assessment were conducted. In addition, MFA collected samples from other suspect materials not evaluated in the prior sampling.

To perform this assessment, Harney County used funding from a U.S. Environmental Protection Agency (EPA) Brownfield Coalition Assessment Grant (Cooperative Agreement #BF-01J86601). Oregon Department of Environmental Quality (DEQ), through an intergovernmental agreement (IGA) with Harney County, contracted assessment activities to an existing on-call environmental contractor, MFA.

¹ PBS. 2024. Pre-Renovation Hazardous Materials Survey Report. Downtown Building. PBS Project Number 68183.003 P0003. PBS, January.

² MFA. 2024. Sampling and Analysis Plan. Burns Downtown Building, DEQ Task Order 067-23-15. ECSI No. 6700. Maul Foster and Alongi, Inc., July 23.

Scope of Work

The project scope of work included the following tasks:

- Conduct a limited inspection of the building roof exterior for suspected ACM, including a previously presumed layer of roofing not accessible during prior inspections.
- Collect bulk samples of suspected ACM in accordance with applicable regulations and industry-standard guidelines for conducting hazardous building materials surveys.
- Submit suspected ACM bulk samples to a qualified laboratory for analysis.
- Prepare a memorandum documenting the survey findings (this document).

Field Activities and Findings

Preparatory Activities

MFA completed the following preparatory activities prior to conducting field activities on the Site:

Laboratory Identification and Selection. Based on communications with DEQ's contract laboratory, it was determined that the selection of an outside laboratory to perform the hazardous building materials analysis would minimize analysis time and reduce costs for sample analysis. Based on recent experience on completed projects, demonstrated ability to meet expedited turnaround times, and pricing for laboratory analyses, MFA selected NVL Laboratories (NVL) of Seattle, Washington for hazardous building materials analyses. NVL is a Minority Business Enterprise (MBE) that holds certifications to analyze asbestos in bulk materials and lead content in paint chips.

Site Health and Safety Plan. MFA prepared a site-specific health and safety plan (HASP) for the performance of these sampling activities. The HASP was prepared in general accordance with the Occupational Safety and Health Act and Oregon Administrative Rules. A copy of the HASP was maintained on site for use by MFA staff during the field activities and was submitted to DEQ as Appendix A of the Sampling and Analysis Plan³.

Site Access and Work Notification. MFA coordinated Site access with Burns Paiute Tribe representatives and notified DEQ of the proposed work schedule. The timing of the sampling activities was delayed due to nearby wildfire conditions that impacted air quality and the availability of owner representatives to provide access to the Site.

Roofing Repair Contractor Coordination. In addition to Burns Paiute Tribe and DEQ notifications, MFA coordinated with a local roofing contractor to provide additional Site access equipment and to perform repair patching after collection of survey samples to prevent further water intrusion into the building through core sample locations.

Asbestos Sampling

On August 17, 2024, a site inspection and asbestos survey was performed by Julie Pace, a certified Asbestos Hazard Emergency Response Act (AHERA) inspector (certificate in Attachment A). The survey included a complete visual survey of the accessible roof areas to identify suspected ACM prior to renovation activities. Suspect materials were cataloged and tracked. Bulk material samples were collected from each of the suspect materials, as appropriate, using industry-standard sampling

³ MFA. 2024. Sampling and Analysis Plan. Burns Downtown Building, DEQ Task Order 067-23-15. ECSI No. 6700. Maul Foster and Alongi, Inc., July 23.

techniques. Bulk material sampling procedures were consistent with the AHERA protocol outlined in 40 Code of Federal Regulations (CFR) 763, Oregon Administrative Rules Chapter 340, Division 248, and industry standards.

Julie Pace collected 13 samples, comprising a total of 35 individual layers of suspect ACM. These samples included roofing sealants, silver paint, tar, and cores completed through all roofing layers. Samples were collected using decontaminated equipment and placed into individually labeled plastic bags. Photographs were taken of each sample and sampling location (Attachment B). Sample details were recorded in field notes and a field figure was generated to document location information for each sample. The sampling procedures were followed to minimize the release of asbestos fibers. After each sample collection, the roof surface was repaired by a local roofing contractor. The samples were submitted to NVL for analysis under chain-of-custody protocols.

Analysis and Results

Table 1 summarizes the asbestos laboratory results and field data about building material types, color, and condition, and the sample locations are shown in the attached Figure 2. Photographs are provided in Attachment B. The laboratory analytical report is presented in Attachment C. The data are considered acceptable for their intended use.

The 13 samples were analyzed by polarized light microscopy, consistent with EPA Method 600/R-93/116.

In OAR 340-248-0010, the Oregon Department of Environmental Quality defines ACM as materials that contain more than 1 percent asbestos by weight.

Laboratory Asbestos Results

Asbestos was detected in 2 of the 13 samples:

- Sample DT-09: black fibrous mastic/sealant, 14 percent chrysotile asbestos. This material, located on the northwest roof vent, was considered damaged and friable.
- Sample DT-10: black sealant, 22 percent chrysotile asbestos. This material, located on the rooftop chimney, was considered damaged and friable.

Recommended Response Actions

This report should be made available to contractors during bidding on abatement, construction, or renovation work that will be conducted on the structure listed above. A summary of regulated ACM surveyed by MFA and PBS is included in Table 2 and presented on Figure 3.

Based on the presence of friable ACM present at the Site, the identified hazardous building materials must be abated by a DEQ-licensed asbestos abatement contractor prior to renovations or safely managed in place consistent with a written operations and maintenance plan to prevent human exposure or release to the environment. Please note that this survey document does not meet the requirements of an abatement specification.

Asbestos bulk samples with trace detections of asbestos fibers (e.g., < 1%) are not considered ACM, and therefore, are not regulated by EPA and DEQ. However, these materials may still contain asbestos. Contractors should be aware that OR-OSHA has requirements to protect workers that disturb these materials during construction activities.

Contractors should also be informed that during the renovation activities, other hazardous materials or conditions may be discovered that may warrant additional remediation and/or corrective actions. Contractors should presume that any materials not described in this report and previous reports are potentially hazardous and should be inspected and sampled before they are disturbed.

As required by the State of Oregon Asbestos Rules, contact information for the Inspector and Property Owner are provided below.

- Julie Pace – AHERA Building Inspector – 971-544-7847
- Burns Paiute Tribe – Property Owner – 541-573-2088

Attachments

Limitations

Figures

Tables

A—Inspector Certificate

B—Photograph Log

C—Analytical Laboratory Report

Limitations

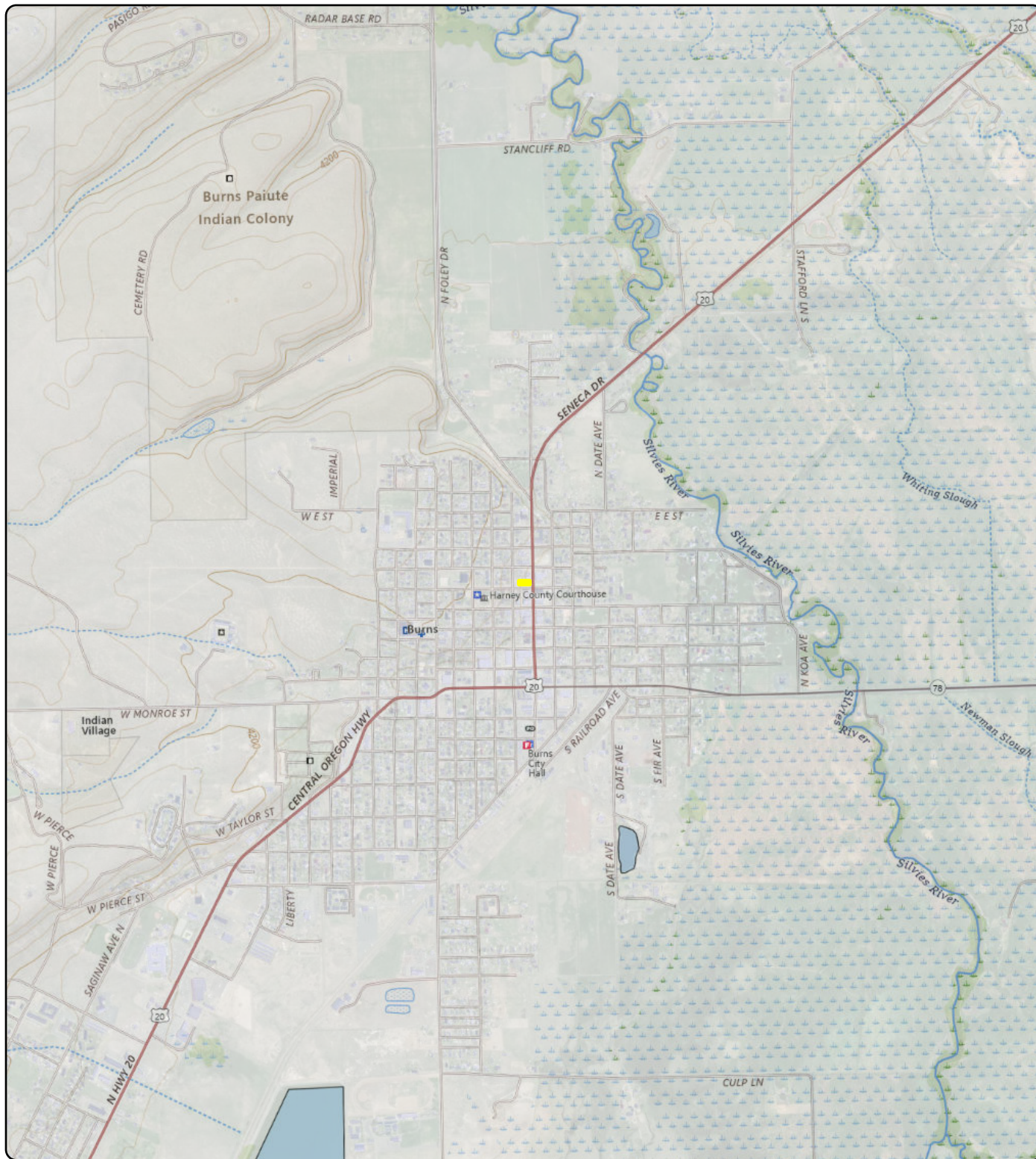
The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.

Figures



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Notes
 U.S. Geological Survey 7.5-minute topographic
 quadrangle (2020): Burns.
 Township 23 south, range 31 east, section 7.

Data Source
 Property boundary obtained from Harney County.



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 for legal, engineering, or surveying purposes. Users of this information should review or
 consult the primary data and information sources to ascertain the usability of the information.
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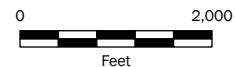
Legend



Site Boundary

Figure 1
Site Location

Limited Pre-Renovation Asbestos Survey
 Oregon Department of Environmental Quality
 Burns Downtown Building
 506 North Broadway Avenue
 Burns, Oregon



Path: X:\O_MFA_Projects\M0785\30\001\Pro\M0785_30_001_003.aprx Fig 2 Property Overview
Print Date: 7/8/2024
Reviewed By: szblough
Produced By: jslstrott
Project: M0785-30-001-003

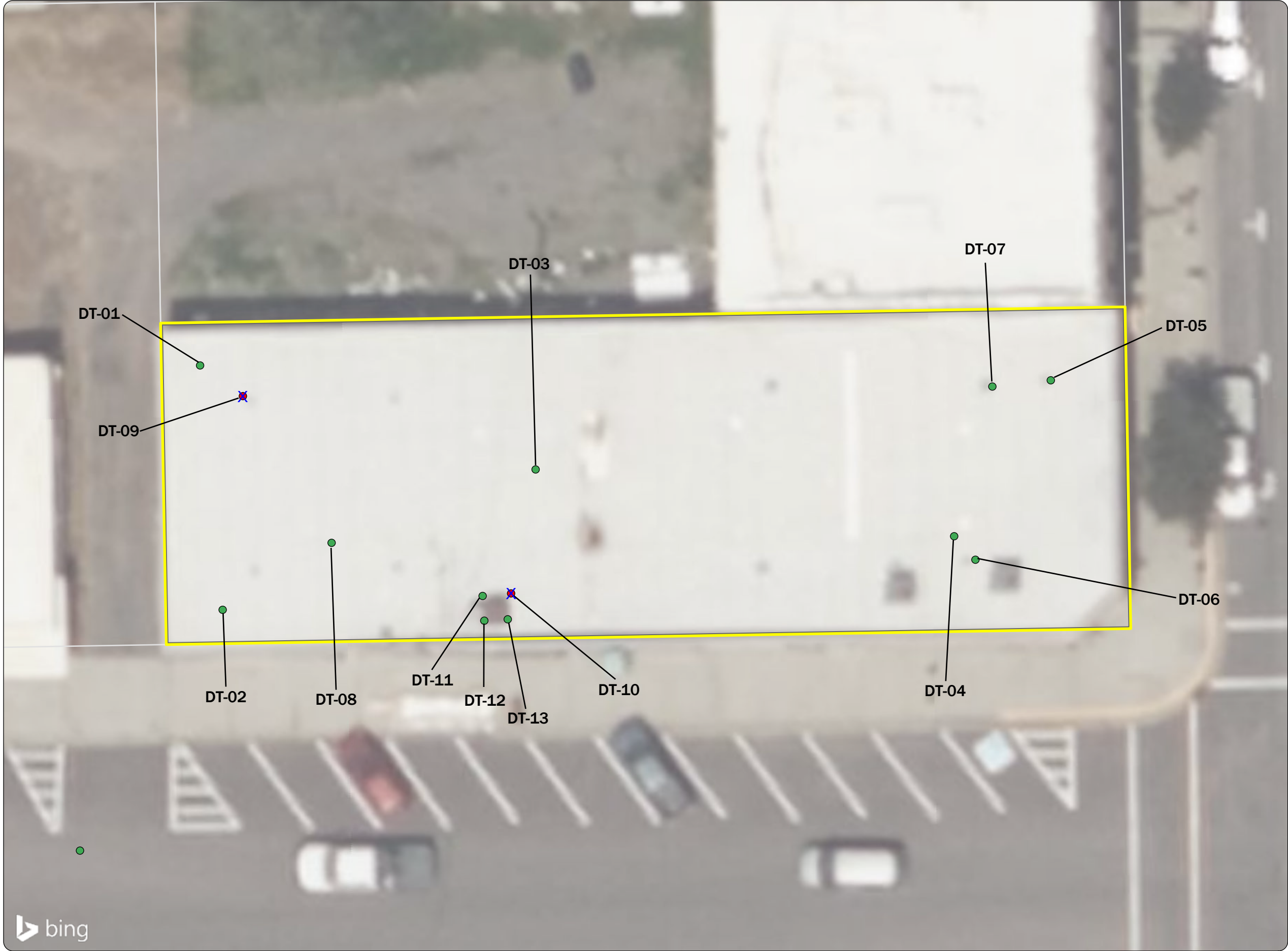
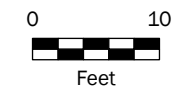


Figure 2 Sample Locations

Limited Pre-Renovation Asbestos Survey
Burns Downtown Building
506 North Broadway Avenue
Burns, Oregon

Legend

-  Site Boundary
-  Tax Lot
-  Positive Asbestos Sample Location
-  Negative Asbestos Sample Location



Data Sources
Aerial photograph obtained from Bing; tax lot data obtained from Harney County.

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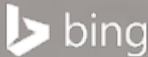
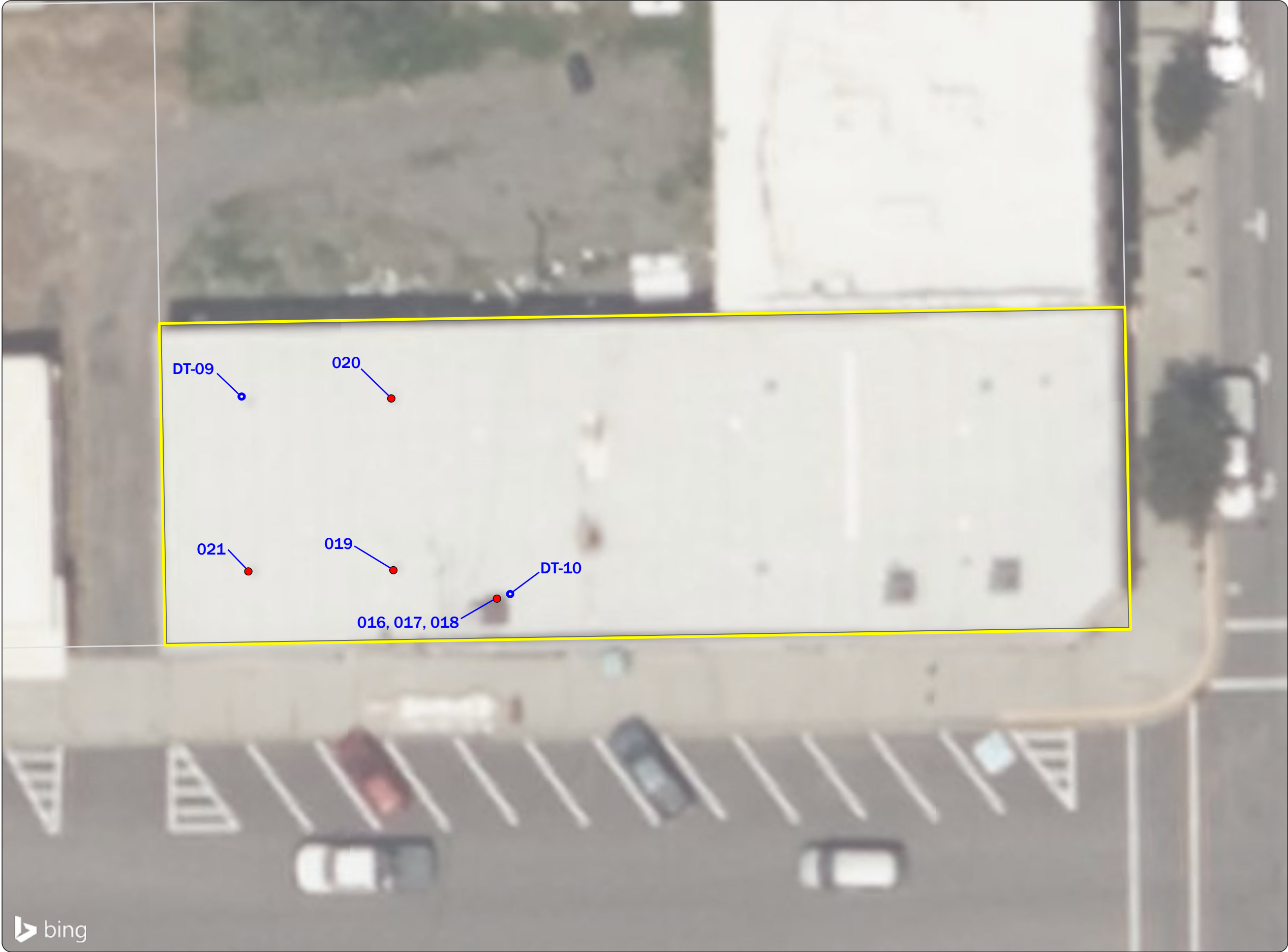


Figure 3 Roof - Summary of Asbestos Detections

Limited Pre-Renovation Asbestos Survey
Burns Downtown Building
506 North Broadway Avenue
Burns, Oregon

Legend

-  Site Boundary
-  Tax Lot
-  Positive Asbestos Sample (MFA)
-  Positive Asbestos Sample (PBS)



Data Sources
Aerial photograph obtained from Bing; tax lot data obtained from Harney County.



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Tables



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Table 1
Summary of Asbestos Sample Results
Downtown Building
506 N. Broadway Avenue, Burns, Oregon



Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
DT-01	08/15/2024	Roof core	NW corner of roof	White fibrous mesh covered by rubbery material and plastic	ND	--	--
				Crumbly black asphaltic fibrous material with granules	ND	--	--
				Silver paint	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
DT-02	08/15/2024	Roof core	SW corner of roof	White fibrous mesh covered by rubbery material and plastic	ND	--	--
				Crumbly black asphaltic fibrous material with granules	ND	--	--
				Silver paint	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
DT-03	08/15/2024	Roof core	Middle corner of roof	White fibrous mesh covered by rubbery material and plastic	ND	--	--
				Crumbly silver paint	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
DT-04	08/15/2024	Roof core	SE corner of roof	White fibrous mesh covered by rubbery material and plastic	ND	--	--
				Crumbly silver paint	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
				Crumbly white soft material	ND	--	--
DT-05	08/15/2024	Roof core	NE corner of roof	White fibrous mesh covered by rubbery material	ND	--	--
				Crumbly silver paint	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
				Crumbly black asphaltic fibrous material	ND	--	--
				Crumbly white soft material	ND	--	--
DT-06	08/15/2024	Gray caulking	SE roof vent	Gray soft rubbery material	ND	--	--
DT-07	08/15/2024	Gray caulking	NE roof vent	Gray soft rubbery material	ND	--	--
DT-08	08/15/2024	Black fibrous mastic/sealant	SW roof vent	Silver paint	ND	--	--
				Black asphaltic material with fibrous mesh and gray dust	ND	--	--

Table 1
Summary of Asbestos Sample Results
Downtown Building
506 N. Broadway Avenue, Burns, Oregon



Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
DT-09	08/15/2024	Black fibrous mastic/sealant	NW roof vent	Silver paint	ND	--	--
				Black asphaltic fibrous material with gray dust	ND	--	--
				Gray-black asphaltic material	Chrysotile 14%	Fair, friable	4 vent caps
				Black asphaltic fibrous material	ND	--	--
DT-10	08/15/2024	Black sealant and silver paint	Chimney	Silver paint	ND	--	--
				Crumbly gray-black asphaltic material	Chrysotile 22%	Fair, friable	5 SF
DT-11	08/15/2024	Black sealant and silver paint	Chimney	Crumbly black asphaltic material with silver paint	ND	--	--
DT-12	08/15/2024	Mortar	Chimney	Gray cementitious material	ND	--	--
DT-13	08/15/2024	Mortar	Chimney	Gray cementitious material	ND	--	--
Notes Samples were analyzed consistent with polarized light microscopy EPA Method 600/R-93-116. Bold = Asbestos detected in sample. -- = not applicable. ND = not detected. SF = square feet.							

Table 2
Summary of Asbestos-Containing Materials
Downtown Building
506 N. Broadway Avenue, Burns, Oregon



Regulated Material	Material Description	Location Description	Estimated Quantity	Sample/Comment
Asbestos-containing material (MFA Survey)	Roof			
	Black fibrous mastic/sealant	NW roof vent cap	4 vent caps (approximately 1 SF each)	DT-09. All four of the western roof vent caps have this material.
	Black sealant	Chimney	5 SF	DT-10
Asbestos-containing material (PBS Survey*) ⁽¹⁾	Roof			
	Black roofing tar	Roof, western vent caps	4 vent caps	Samples 019, 020, and 021 (same material as MFA's sample DT-09)
	Black roofing tar	Roof, chimney exterior	10 SF	Samples 016 and 018 (same material as MFA's sample DT-10)
Notes				
Shading denotes results duplicated between PBS and MFA sampling. Noted to avoid double counting of estimated quantities.				
*PBS data was transcribed from their original report.				
HBM = hazardous building materials.				
SF = square feet.				
⁽¹⁾ PBS. 2024a. Limited Pre-Renovation Hazardous Materials Report, Downtown Building 506 N. Broadway Avenue, Burns, Oregon 97720. PBS Engineering and Environmental Inc., January.				

Attachment A

Inspector Certificate



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Certificate of Completion

This is to certify that

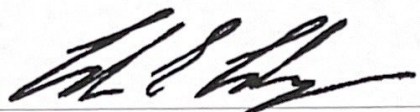
Julie Pace

has satisfactorily completed
4 hours of refresher training as an
AHERA Building Inspector

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

EPA Provider # 1085

192181
Certificate Number



Instructor: Ed Edinger

Jan 10, 2024

Expires in 1 year.

Date(s) of Training

Exam Score: N/A
(if applicable)



- Facilities
- Environmental
- Geotechnical
- Materials

Attachment B

Photograph Log



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Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 1.

Exterior

South side of the building.



Photo No. 2.

Exterior

East side of the building.





Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 3.

Exterior

South and west sides of the building.



Photo No. 4.

Exterior

North side of the building.





Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 5.

Rooftop

Rooftop looking east.



Photo No. 6.

Roofing core samples

Sample DT-01, non-detect for asbestos.



Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 7.

Roofing core samples

Sample DT-02, non-detect for asbestos.

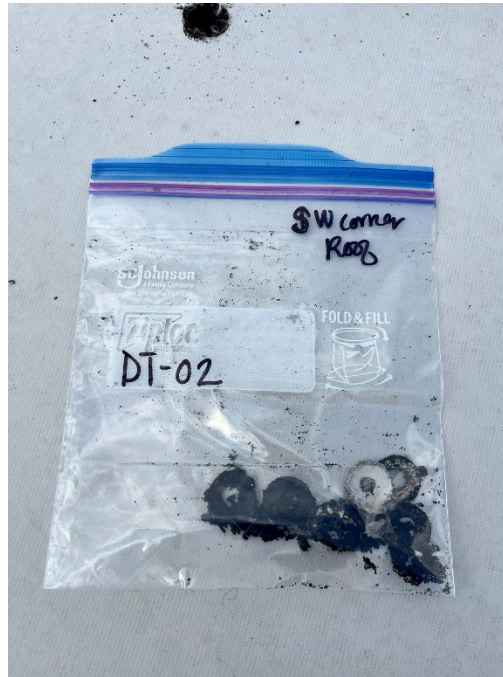


Photo No. 8.

Roofing core samples

Sample DT-03, non-detect for asbestos.





Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 9.

Roofing core samples

Sample DT-04, non-detect for asbestos.

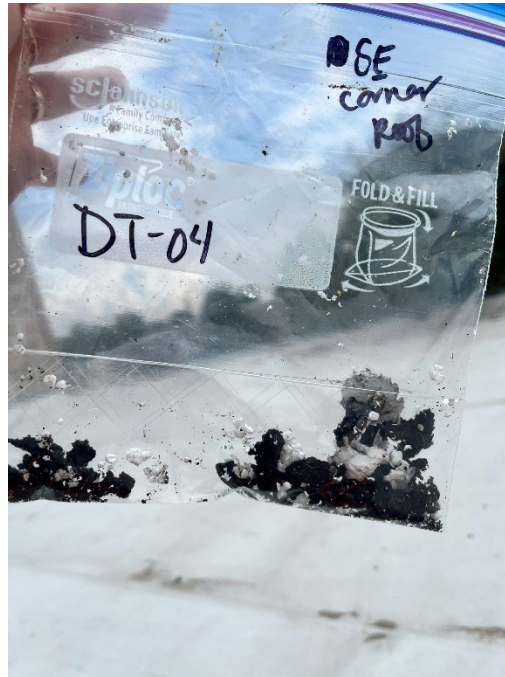
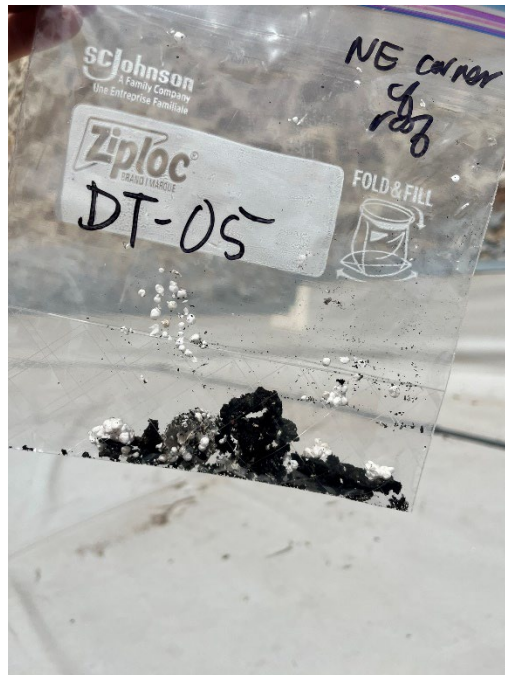


Photo No. 10.

Roofing core samples

Sample DT-05, non-detect for asbestos.



Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 11.

Roofing vent samples

Sample DT-06, non-detect for asbestos.



Photo No. 12.

Roofing vent samples

Sample DT-06 taken from this vent, non-detect for asbestos.



Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 13.

Roofing vent samples

Sample DT-07, non-detect for asbestos.

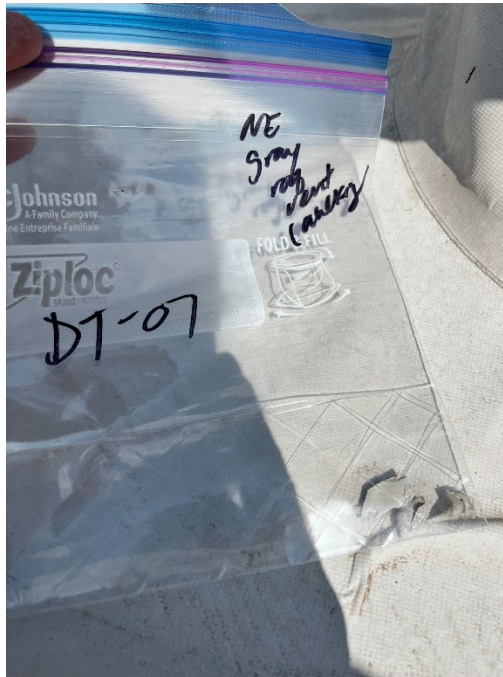


Photo No. 14.

Roofing vent samples

Sample DT-07 taken from this vent, non-detect for asbestos.



Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 15.

Roofing vent samples

Sample DT-08, non-
detect for asbestos.



Photo No. 16.

Roofing vent samples

Sample DT-09, **asbestos
detected.**





Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 17.

Rooftop Chimney

Sample DT-10, **asbestos detected.**

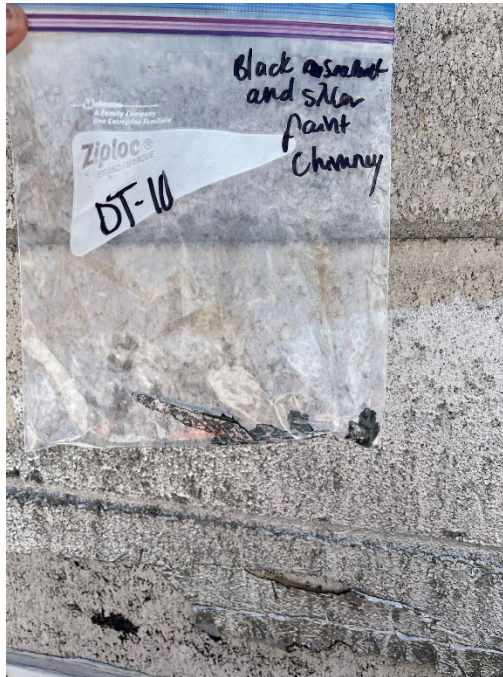


Photo No. 18.

Rooftop Chimney

General picture chimney materials and location.





Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 19.

Rooftop Chimney

Sample DT-11, non-detect for asbestos.



Photo No. 20.

Rooftop Chimney

Sample DT-12, non-detect for asbestos.





Photographs

Project Name: Limited Pre-Renovation Asbestos Survey
Project Number: M0000.00.000
Location: Burns, Oregon (Downtown Building)

Photo No. 21.

Rooftop Chimney

Sample DT-13, non-
detect for asbestos.



Attachment C

Analytical Laboratory Report



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August 23, 2024



Chris Clough
Maul Foster & Alongi - Portland
3140 NE Broadway
Portland, OR 97232

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2414980.00

Client Project: M0785.30.001-003
Location: Burns, Oregon

Dear Mr. Clough,

Enclosed please find test results for the 13 sample(s) submitted to our laboratory for analysis on 8/20/2024.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read 'Munaf Khan'.

Munaf Khan, President/Laboratory Director

The NVLAP logo, which consists of the letters 'NVLAP' in a stylized, outlined font. The 'P' has a small circle at the bottom right.

Testing

Lab Code: 102063-0

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



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland

Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough

Project Location: Burns, Oregon

Batch #: 2414980.00

Client Project #: M0785.30.001-003

Date Received: 8/20/2024

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116

Lab ID: 24089769 Client Sample #: DT-01

Comments: Unsure of correct layer sequence.

Layer 1 of 4 Description: White fibrous mesh covered by rubbery material and plastic

Non-Fibrous Materials:	Other Fibrous Materials:%
Rubber/Binder, Fine particles, Plastic	Polyester 24%
	Cellulose 1%

Asbestos Type: %
None Detected ND

Layer 2 of 4 Description: Crumbly black asphaltic fibrous material with granules

Non-Fibrous Materials:	Other Fibrous Materials:%
Asphalt/Binder, Asphaltic Particles, Fine grains	Glass fibers 44%
Granules, Mineral grains	Cellulose 3%

Asbestos Type: %
None Detected ND

Layer 3 of 4 Description: Silver paint

Non-Fibrous Materials:	Other Fibrous Materials:%
Paint, Paint/Binder, Asphaltic Particles	Cellulose 3%

Asbestos Type: %
None Detected ND

Layer 4 of 4 Description: Crumbly black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%
Asphalt/Binder, Asphaltic Particles, Fine grains	Cellulose 44%
Mineral grains	

Asbestos Type: %
None Detected ND

Lab ID: 24089770 Client Sample #: DT-02

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 4 Description: White fibrous mesh covered by rubbery material and plastic

Non-Fibrous Materials:	Other Fibrous Materials:%
Rubber/Binder, Fine particles, Plastic	Polyester 26%

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024

Munaf Khan, President/Laboratory Director

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: Maul Foster & Alongi - Portland

Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough

Project Location: Burns, Oregon

Batch #: 2414980.00

Client Project #: M0785.30.001-003

Date Received: 8/20/2024

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116

Layer 2 of 4	Description: Crumbly black asphaltic fibrous material with granules			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Granules	Glass fibers 42%		None Detected ND
	Mineral grains	Cellulose 2%		
Layer 3 of 4	Description: Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Paint, Paint/Binder, Asphaltic Particles	Cellulose 2%		None Detected ND
Layer 4 of 4	Description: Crumbly black asphaltic fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Fine grains	Cellulose 55%		None Detected ND
	Mineral grains	Glass fibers 2%		

Lab ID: 24089771 **Client Sample #: DT-03**

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 4	Description: White fibrous mesh covered by rubbery material and plastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Rubber/Binder, Fine particles, Plastic	Polyester 23%		None Detected ND
Layer 2 of 4	Description: Crumbly silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Paint/Binder, Fine particles, Paint	Cellulose 3%		None Detected ND
Layer 3 of 4	Description: Crumbly black asphaltic fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Asphalt/Binder, Asphaltic Particles, Fine grains	Glass fibers 34%		None Detected ND
	Granules, Mineral grains	Cellulose 2%		

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024

Munaf Khan, President/Laboratory Director

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: Maul Foster & Alongi - Portland

Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough

Project Location: Burns, Oregon

Batch #: 2414980.00

Client Project #: M0785.30.001-003

Date Received: 8/20/2024

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116

Layer 4 of 4 **Description:** Crumbly black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%
Asphalt/Binder, Asphaltic Particles, Mineral grains	Cellulose 53%

Asbestos Type: %
None Detected ND

Lab ID: 24089772 **Client Sample #: DT-04**

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 5 **Description:** White fibrous mesh covered by rubbery material and plastic

Non-Fibrous Materials:	Other Fibrous Materials:%
Rubber/Binder, Fine particles, Plastic	Polyester 29%

Asbestos Type: %
None Detected ND

Layer 2 of 5 **Description:** Crumbly silver paint

Non-Fibrous Materials:	Other Fibrous Materials:%
Paint/Binder, Paint, Fine particles	Cellulose 5%

Asbestos Type: %
None Detected ND

Layer 3 of 5 **Description:** Crumbly black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%
Asphalt/Binder, Asphaltic Particles, Fine grains	Cellulose 48%
Mineral grains	Glass fibers 6%

Asbestos Type: %
None Detected ND

Layer 4 of 5 **Description:** Crumbly black asphaltic fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%
Asphalt/Binder, Asphaltic Particles, Granules	Glass fibers 39%
Mineral grains	

Asbestos Type: %
None Detected ND

Layer 5 of 5 **Description:** Crumbly white soft material

Non-Fibrous Materials:	Other Fibrous Materials:%
Binder/Filler, Fine particles, Styrofoam	None Detected ND

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024


Munaf Khan, President/Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414980.00
Client Project #: M0785.30.001-003
Date Received: 8/20/2024
Samples Received: 13
Samples Analyzed: 13
Method: EPA/600/R-93/116

Lab ID: 24089773 Client Sample #: DT-05

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 5	Description: White fibrous mesh covered by rubbery material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: % None Detected ND
		Rubber/Binder, Fine particles, Plastic	Polyester 22%	
Layer 2 of 5	Description: Crumbly silver paint	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: % None Detected ND
		Paint, Paint/Binder, Fine particles	Cellulose 2%	
Layer 3 of 5	Description: Crumbly black asphaltic fibrous material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: % None Detected ND
		Asphalt/Binder, Asphaltic Particles, Granules	Glass fibers 28%	
		Mineral grains		
Layer 4 of 5	Description: Crumbly black asphaltic fibrous material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: % None Detected ND
		Asphalt/Binder, Asphaltic Particles, Mineral grains	Cellulose 55%	
Layer 5 of 5	Description: Crumbly white soft material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: % None Detected ND
		Binder/Filler, Fine particles, Styrofoam	None Detected ND	

Lab ID: 24089774 Client Sample #: DT-06

Location: Burns, Oregon

Layer 1 of 1	Description: Gray soft rubbery material	Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: % None Detected ND
		Fine particles, Caulking compound	Cellulose <1%	

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024


Munaf Khan, President/Laboratory Director

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: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414980.00
Client Project #: M0785.30.001-003
Date Received: 8/20/2024
Samples Received: 13
Samples Analyzed: 13
Method: EPA/600/R-93/116

Lab ID: 24089775 Client Sample #: DT-07

Location: Burns, Oregon

Layer 1 of 1 Description: Gray soft rubbery material

Non-Fibrous Materials:	Other Fibrous Materials: %
Fine particles, Caulking compound	Cellulose <1%

Asbestos Type: %
None Detected ND

Lab ID: 24089776 Client Sample #: DT-08

Location: Burns, Oregon

Layer 1 of 2 Description: Silver paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Paint, Paint/Binder, Asphaltic Particles	Cellulose <1%

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: Black asphaltic material with fibrous mesh and gray dust

Non-Fibrous Materials:	Other Fibrous Materials: %
Asphalt/Binder, Asphaltic Particles	Glass fibers 24%
	Cellulose 2%

Asbestos Type: %
None Detected ND

Lab ID: 24089777 Client Sample #: DT-09

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 4 Description: Silver paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Paint, Paint/Binder, Asphaltic Particles	None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 4 Description: Black asphaltic fibrous material with gray dust

Non-Fibrous Materials:	Other Fibrous Materials: %
Asphalt/Binder, Asphaltic Particles, Fine grains	Glass fibers 26%

Asbestos Type: %
None Detected ND

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024


Munaf Khan, President/Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland

Address: 3140 NE Broadway
Portland, OR 97232

Batch #: 2414980.00

Client Project #: M0785.30.001-003

Date Received: 8/20/2024

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116

Attention: Mr. Chris Clough

Project Location: Burns, Oregon

Layer 3 of 4	Description: Gray-black asphaltic material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Asphalt/Binder, Asphaltic Particles	Cellulose 2%	Chrysotile 14%

Layer 4 of 4	Description: Black asphaltic fibrous material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Asphalt/Binder, Asphaltic Particles	Glass fibers 16%	None Detected ND

Lab ID: 24089778 **Client Sample #: DT-10**

Location: Burns, Oregon

Layer 1 of 2	Description: Silver paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Paint, Paint/Binder, Fine particles	Cellulose <1%	None Detected ND

Layer 2 of 2	Description: Crumbly gray-black asphaltic material	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Asphalt/Binder, Asphaltic Particles, Mineral grains	Glass fibers 9%	Chrysotile 22%
			Cellulose 3%	

Lab ID: 24089779 **Client Sample #: DT-11**

Location: Burns, Oregon

Layer 1 of 1	Description: Crumbly black asphaltic material with silver paint	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
		Paint, Asphalt/Binder, Asphaltic Particles	Glass fibers 4%	None Detected ND
			Cellulose 1%	

Lab ID: 24089780 **Client Sample #: DT-12**

Location: Burns, Oregon

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024


Munaf Khan, President/Laboratory Director

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: Maul Foster & Alongi - Portland

Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough

Project Location: Burns, Oregon

Batch #: 2414980.00

Client Project #: M0785.30.001-003

Date Received: 8/20/2024

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116

Layer 1 of 1	Description: Gray cementitious material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Cement/Binder, Fine grains, Mineral grains	Cellulose 1%		None Detected ND
	Fine particles, Gravel			

Lab ID: 24089781 **Client Sample #: DT-13**

Location: Burns, Oregon

Layer 1 of 1	Description: Gray cementitious material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Cement/Binder, Fine grains, Mineral grains	Cellulose 2%		None Detected ND
	Fine particles, Gravel			

Sampled by: Client

Analyzed by: Ghulam Nazari

Reviewed by: Munaf Khan

Date: 08/22/2024

Date: 08/23/2024

Munaf Khan, President/Laboratory Director

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 Maul Foster & Alongi - Portland
Address 3140 NE Broadway
 Portland, OR 97232
Project Manager Mr. Chris Clough
Phone (971) 544-2139
Cell (503) 330-7781
NVL Batch Number 2414980.00
TAT 3 Days **AH** No
Rush TAT
Due Date 8/23/2024 **Time** 9:30 AM
Email cclough@maulfoster.com
Fax () -

Project Name/Number: M0785.30.001-003 **Project Location:** Burns, Oregon

Subcategory PLM Bulk

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

Total Number of Samples 13

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24089769	DT-01		A
2	24089770	DT-02		A
3	24089771	DT-03		A
4	24089772	DT-04		A
5	24089773	DT-05		A
6	24089774	DT-06		A
7	24089775	DT-07		A
8	24089776	DT-08		A
9	24089777	DT-09		A
10	24089778	DT-10		A
11	24089779	DT-11		A
12	24089780	DT-12		A
13	24089781	DT-13		A

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

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	8/20/24	930
Analyzed by	Ghulam Nazari		NVL	8/22/24	
Results Called by					
☐ Faxed ☐ Emailed					

Special Instructions:

Date: 8/20/2024
 Time: 12:01 PM
 Entered By: Kelly AuVu

Downtown.

2414980



ASBESTOS CHAIN OF CUSTODY

Turn A:

- ☐ 1 Hour ☐ 24 Hours ☐ 4 Days
☐ 2 Hours ☐ 2 Days ☐ 5 Days
☐ 4 Hours ☒ 3 Days ☐ 10 Days

Please call for TAT less than 24 Hours

Company Maul Foster Alongi
 Address 3140 NE Broadway
Portland, 97232
 Phone _____

Project Manager Chris Clough
 Cell (503) 330-7781
 Email cclough@maulfoster.com
 Fax () _____

Project Name/Number M0785.30.001 Project Location Burns, Oregon

- ☐ 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 1000 Points (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 See above

Total Number of Samples _____

Sample ID	Description	A/R
1 DT-01	Black tar - Roof core	
2 DT-02	Roof core - Black tar	
3 DT-03	" "	
4 DT-04	Black Roof core - Black tar w/ Styrofoam	
5 DT-05	" "	
6 DT-06	gray caulking	
7 DT-07	gray caulking	
8 DT-08	Black fibrous mastic/sealant	
9 DT-09	" "	
10 DT-10	Black sealant w/ Silver paint	
11 DT-11	" "	
12 DT-12	gray mortar	
13 DT-13	gray mortar	
14		
15		

Print Name	Signature	Company	Date	Time
Sampled by <u>Jule Pace</u>	<u>[Signature]</u>	<u>MFA</u>	<u>8/15/24</u>	<u>11:30am</u>
Relinquish by <u>[Signature]</u>	<u>[Signature]</u>	<u>MFA</u>	<u>8/19/24</u>	<u>18:30</u>

Office Use Only

Print Name	Signature	Company	Date	Time
Received by <u>Kevin Aem</u>	<u>[Signature]</u>	<u>nm</u>	<u>8/20/24</u>	<u>9:25</u>
Analyzed by _____	_____	_____	_____	_____
Called by _____	_____	_____	_____	_____
Faxed/Email by _____	_____	_____	_____	_____