



December 13, 2022

USFS Pacific Northwest Region  
63095 Deschutes Market Road  
Bend, Oregon 97701

Attention: Karen Bower, COR

**Re: US Forest Service**  
Fremont-Winema National Forest  
Lakeview Ranger District  
18049 US-395  
Lakeview, OR 97630

Ms. Karen Bower,

White Shield, Inc. per your request, completed a Good Faith Asbestos survey on the structures located at 18049 US-395 Lakeview, OR 97630. The compound consists of eleven wood framed forest service structures. The building materials observed consisted of Sheet Vinyl, Cove base, vinyl tile, insulation, and drywall.

White Shield Environmental Professional and Licensed AHERA Building Inspector Kyle Spencer completed the site reconnaissance and sampling on November 15<sup>th</sup> -16<sup>th</sup>, 2022. Asbestos containing building materials (ACBMS) were confirmed to be present in Buildings 2003 and 2102. The following report documents the work completed, provides analytical findings and recommendations.

We appreciate the opportunity to provide environmental services for you on this project.

Best Regards,

Kyle A. Spencer  
Environmental Scientist

AAI Qualified Environmental Professional  
Licensed AHERA Building Inspector

Stuart Fricke  
Principal

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## **1.0 INTRODUCTION**

On November 15<sup>th</sup> & 16<sup>th</sup>, 2022, White Shield, Inc. environmental professionals and accredited asbestos containing building materials inspectors (inspectors) Kyle Spencer and Brad Reilly completed a Good Faith Asbestos survey of eleven (11) structures located at 18049 US-395 Lakeview, OR 97630. The compound consists of eleven wood framed forest service structures.

- Building 2003 is a single story 6800 sqft Office space. The building was constructed in two phase the outer two wings being added at a later date. The central wing consists of wood framed walls on concrete pad. The outer two wings consist of wood framed walls with crawlspace stem walls. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of Drywall, Sheet vinyl, vinyl tile, cove base, ceiling tile, carpet, and fiberglass insulation.
- Building 2004 is a single story 1700 Sqft office space. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of Drywall, Sheet vinyl, vinyl tile, cove base, ceiling tile, carpet, and fiberglass insulation.
- Building 2100 is a two story 4500 Sqft workshop with a 500 Sqft cellar. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of Sheet vinyl, vinyl tile, ceiling tile, and fiberglass insulation.
- Building 2101 is a two story 4500 Sqft workshop with a 600 Sqft attic. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of Drywall with concrete floors.
- Building 2102 is a single story 1200 Sqft garage/ Gym. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of vinyl tile, sheet vinyl, and cove base with Wood walls.
- Building 2207 is a two story 3700 Sqft workshop/ Office Space. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of Drywall, Sheet vinyl, Cove base, and fiberglass insulation.
- Building 2215 is a two story 2100 Sqft garage. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of wood walls on concrete floors.
- Building 2403 is a two story 2700 Sqft garage. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of wood walls on concrete floors.
- Building 2505 is a two story 360 Sqft storage shed. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of wood walls on concrete floors.
- Building 2605 is a two story 1200 Sqft storage shed. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of wood walls on concrete floors.
- Building 2615 is a two story 3700 Sqft cold storage with a small office Space. The roof of the building consisted of Cedar Shake. The building materials inside the structure consisted of Thermal system insulation, Drywall, Vinyl tile, and Cove base.

The purpose of this Good Faith Asbestos survey (survey) was to assess, sample and analyze suspect asbestos containing materials (ACBMs) that may be present in the building which could present an exposure risk during demolition or remodeling activities.

## **1.2 Hazardous Materials**

### **1.2.1 Asbestos**

Asbestos refers to a group of six types of naturally occurring minerals. Asbestos minerals are made up of fine, durable fibers and are resistant to heat, fire, and many chemicals. These minerals are commonly found in building materials for fireproofing and added durability. Building materials such as vinyl flooring, drywall/ texturing, and wall insulations/ Thermal System Insulation (TSI) among others. Asbestos was ultimately banned in 1989 from general use due to its lung cancer-causing side-effects and lung related diseases such as asbestoses when it becomes air-born. This ban on use has not prevented new building materials imported from other countries from containing asbestos. It remains a potential hazard even in new construction.

The ACM most likely to release asbestos fibers are those which are in a friable state. Friability describes the condition of asbestos. The definition of friable is any material, when dry, that is capable of being crumbled, pulverized, or reduced to powder by hand pressure (40 CFR 763).

Non-friable sources of asbestos are materials containing a cement or asphalt binder which may become friable and release fibers if the sources are exposed to actions such as abrasion, drilling, cutting, fracturing, or hammering. Non-friable sources of asbestos do not typically pose a significant exposure risk if they remain in good condition and are not disturbed. During renovation or demolition activities, non-friable sources may become friable and thus may pose an exposure risk.

The PLM method is the most commonly used method to analyze building materials for the presence of asbestos. This method utilizes the optical properties of minerals to identify the selected constituent. The use of this method enables identification of the type and the percentage of asbestos in a given sample. The detection limit of the PLM method for asbestos identification is typically one percent (1%) asbestos.

## **2.0 GOOD FAITH ASBESTOS SURVEY**

### **2.1 Methodology**

Sampling or sample collection is the process of selecting representative samples from the materials / media being surveyed. This is done through observation and select sample collection by properly trained and certified environmental professionals.

#### **2.1.1 Visual Inspection**

White Shield environmental professionals completed an inspection of accessible areas of each building on the Subject Property included in this survey for the presence of ACM. The purpose of this assessment is for demolition or renovation. Regardless of the thoroughness of a survey, the possibility exists that some areas containing hazardous materials such as ACM.

### 2.1.2 Asbestos

Suspect ACMs observed at the time of the inspection were sampled according to the guidelines set forth in 40 CFR Part 763, and later analyzed using Polarized Light Microscopy (PLM) in accordance with the United States Environmental Protection Agency (EPA) Method for Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116).

The regulations (40 CFR 763), requires that a minimum number of representative samples be collected from each homogeneous area. If asbestos is identified in any of the samples from a homogeneous area, the entire homogeneous area is considered to contain asbestos. Homogeneous areas, as defined by 40 CFR 763 are “an area of surfacing material or thermal system insulation that is uniform in color and texture. Homogeneous area means an area of surfacing material, thermal system insulation or other suspect ACM that is uniform in color and texture and/ or age”.

The aforementioned testing and analytical constraints can affect the findings and recommendations of this survey. Specifically, no assurance is given regarding the asbestos content of the samples beyond these parameters. Further investigation is not recommended unless the client can determine it is cost-effective to do so.

The asbestos survey also established whether any of the substrates sampled could be considered friable and/or significantly damaged and capable of immediate worker exposure.


## 3.0 SURVEY RESULTS

### 3.1 Asbestos

A total of one hundred twenty (120) bulk samples of suspect ACM were collected for analysis from eleven (11) structures located at 18049 US-395 Lakeview, OR 97630. The samples were assigned individual sample numbers, sealed in plastic bags, and transported / shipped under proper chain-of-custody documentation to EMC Laboratories in Phoenix, Arizona for analysis. EMC is an American Industrial Hygiene Association (AIHA)-accredited laboratory that participates in the National Volunteer Laboratory Accreditation Program (NVLAP) quality assurance/quality control program.

Six suspect ACM samples collected from the building 2003 and three suspect ACM samples collected from the building 2102 were reported containing asbestos greater than 1%. Refer to Appendix A for analytical data.

Table 1: Positive Asbestos Results

Sample ID	Estimated Quantities	Laboratory Layer Description	PLM Analytical Results	Condition / Friable	Photograph
18049 US-395 Lake view, OR 97630					
Building 2003					
S26-FB	100 SQFT	Fiber Board, Gray	Chrysotile 15%	Good /Yes	

Sample ID	Estimated Quantities	Laboratory Layer Description	PLM Analytical Results	Condition / Friable	Photograph
18049 US-395 Lake view, OR 97630					
Building 2003					
S30-VT	2600 SQFT	LAYER 1 Vinyl Tile, Tan LAYER 2 Mastic, Beige	Chrysotile 5% None Detected	Good/No	
S31-VT		LAYER 1 Vinyl Tile, Tan LAYER 2 Mastic, Beige	Chrysotile 5% None Detected	Good/No	
S32-VT		LAYER 1 Vinyl Tile, Tan LAYER 2 Mastic, Beige	Chrysotile 5% None Detected	Good/No	
S33-VT		LAYER 1 Vinyl Tile, Tan LAYER 2 Mastic, Beige	Chrysotile 5% None Detected	Good/No	
S37-VT		LAYER 1 Vinyl Tile, Tan LAYER 2 Mastic, Beige	Chrysotile 5% None Detected	Good/No	No Photo
Building 2102					
S7-SV	550 SQFT	Sheet Vinyl, Beige/ Off White	Chrysotile 18%	Good /Yes	
S8-SV		LAYER 1 Sheet Vinyl, Beige/ Off White LAYER 2 Mastic, Tan	Chrysotile 18% Chrysotile 5%	Good /Yes	
S9-SV		LAYER 1 Sheet Vinyl, Beige/ Off White LAYER 2 Mastic, Tan	Chrysotile 18% Chrysotile 5%	Good /Yes	

Documentation of the laboratory results should be retained as a reference for future renovation/ demolition activities.

## 4.0 CONCLUSIONS

Asbestos was **confirmed** to be present in build 2003 in the vinyl tiles found under the carpet localized to the original structure comprising roughly 2600 Square Feet. Additionally asbestos was found in the heating ventilation and air condition (HVAC) room in the form of fiber board most likely intended as fire proofing. The locations of these two asbestos containing building materials (ACBMs) are presented in Appendix A. Building 2102 contains asbestos sheet vinyl and accompanying mastic the sheet vinyl was found in the

southern end of the building but looks to continue under the rest of the flooring totaling roughly 550 sqft. Asbestos containing building materials should be removed prior to demolition or renovations by a licensed Asbestos abatement contractor.

During demolition and/or renovation activities, the potential exists for additional suspect ACM to be exposed. Such materials should be sampled and analyzed for asbestos content prior to any renovation and/or demolition activities that could impact these materials.

## **5.0 LIMITATIONS**

White Shield subcontracted with EMC Laboratories to perform the asbestos analysis. No warranties expressed or implied, are made by White Shield or its subcontractor EMC Laboratories, or their employees as to the use of any information, apparatus, product or process disclosed in this report. Every reasonable effort has been made to assure correctness. If an asbestos contractor or other demolition/construction contractor is employed, such contractor should bring any discrepancies found in this report as it relates to current site conditions or newly discovered site conditions to the immediate attention of White Shield.

This report should not be used solely for asbestos abatement bidding purposes. Any quantities of ACM listed are estimates only and not meant to be used to solicit abatement quotations. These quantities should be confirmed by abatement contractors prior to submitting bids for abatement.

State-of-the-art practices have been employed to perform this hazardous materials survey. The scope of this evaluation was limited to areas that were considered reasonably accessible (i.e., less than 15 feet from the floor), or within range of a visual inspection through reasonable means. No demolition or product research was performed in attempts to reveal material compositions. The services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles/practices. These services are designed to provide an analytical tool to assist the client. White Shield and its subcontractor EMC and their employees/representatives bear no responsibility for the actual condition of the structure or safety of this site pertaining to asbestos and/or lead contamination regardless of the actions taken by the survey team or the client.

# Appendix A

## Appendix A: Project Figures

Figure 1: Site Vicinity Map

Figure 2: Subject Property Location Map

Figure 3: Asbestos Sample Location Map Building 2003

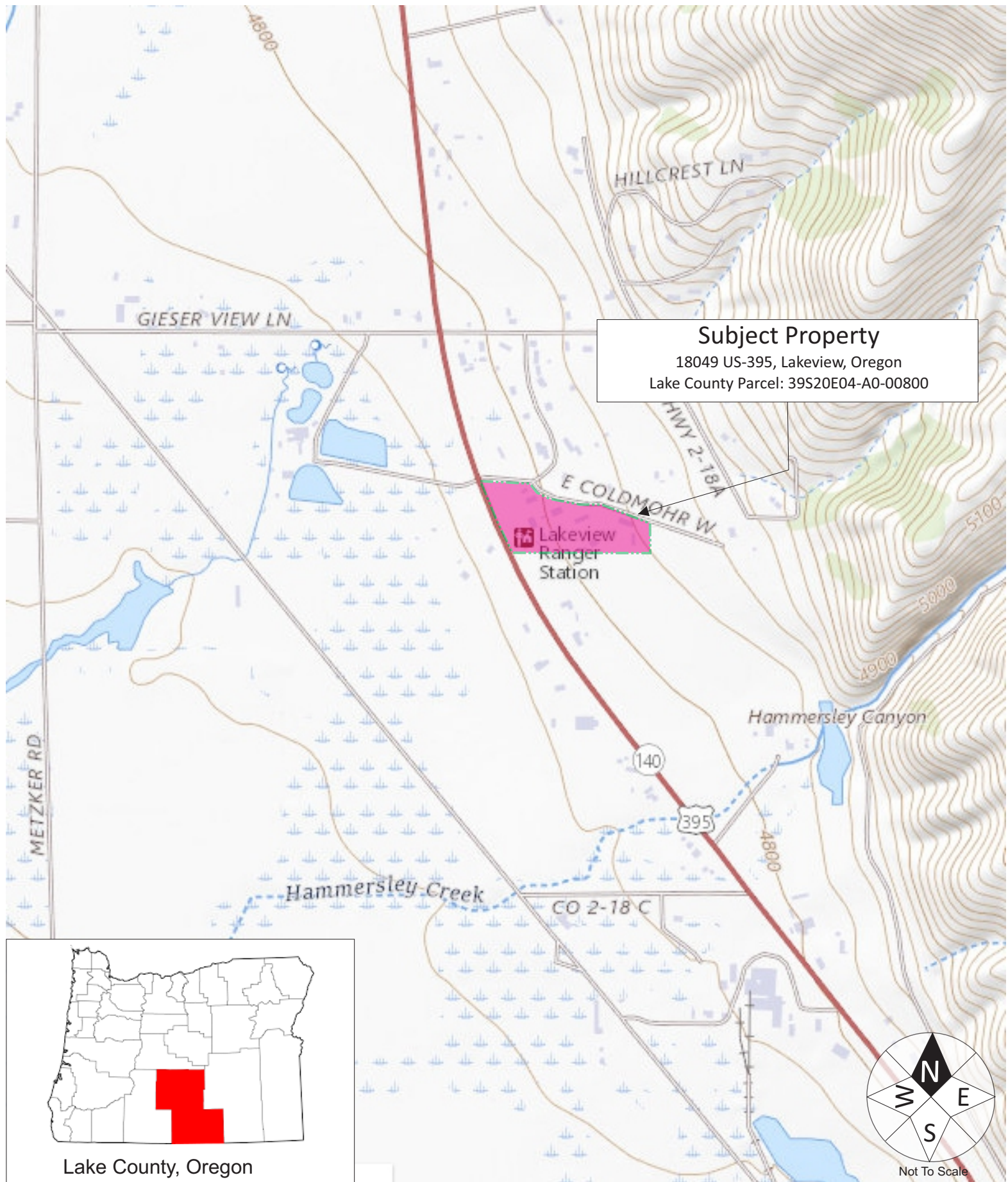
Figure 4: Asbestos Sample Location Map Building 2102

## Appendix A Project Figures



**White Shield**  
Progressive Solutions. Traditional Values



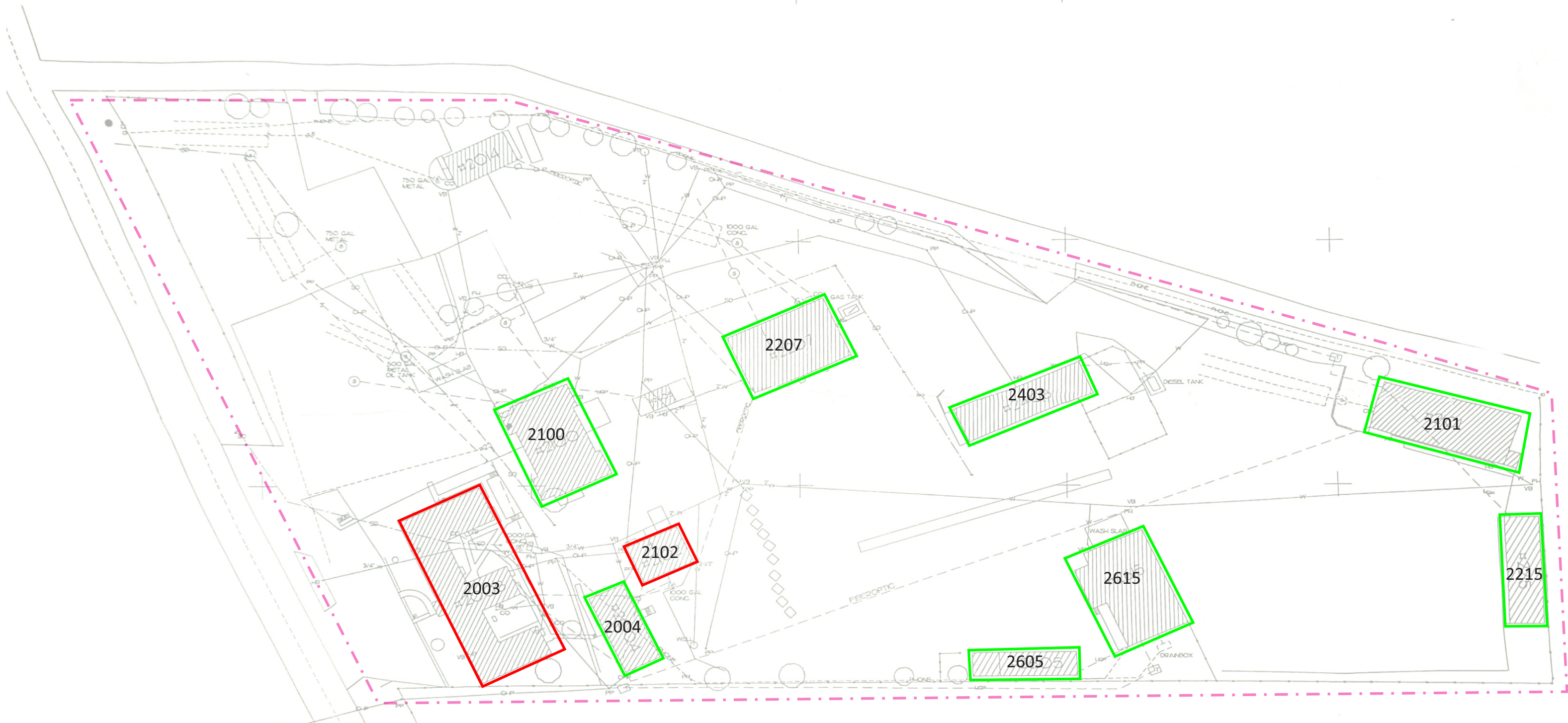


**Site Vicinity Map**  
Asbestos Building Materials Survey  
18049 US-395, Lakeview, Oregon  
Lake County Parcel: 39S20E04-A0-00800

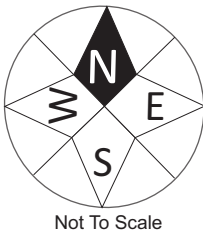
Date: December 12, 2022  
Completed By: K. Spencer  
Reviewed By: S. Spencer  
Version: WSI-001  
Project No.: 0506-11-03-01

Figure No.:  
**01**  
Sheet 01 of 04





- Building Surveyed - No Asbestos Containing Building Materials Identified
- Building Surveyed - Asbestos Containing Building Materials Identified >1%



**Subject Property**  
 Asbestos Building Materials Survey  
 18049 US-395, Lakeview, Oregon  
 Lake County Parcel: 39S20E04-A0-00800




Date: October 29, 2021  
 Completed By: C. Long  
 Reviewed By: S. Spencer  
 Version: WSI-001  
 Project No.: 0506-11-03-01

Figure No.:  
02  
 Sheet 02 of 04



0' 8' 16' 24' 1:219

### Explanation

-  Sample Location Non-Detect for Asbestos
-  Sample Location >1% for Asbestos
-  Asbestos Containing Vinyl Tile

### Asbestos Sample Location Map Building 2003

Asbestos Building Materials Survey  
18049 US-395, Lakeview, Oregon  
Lake County Parcel: 39S20E04-A0-00800

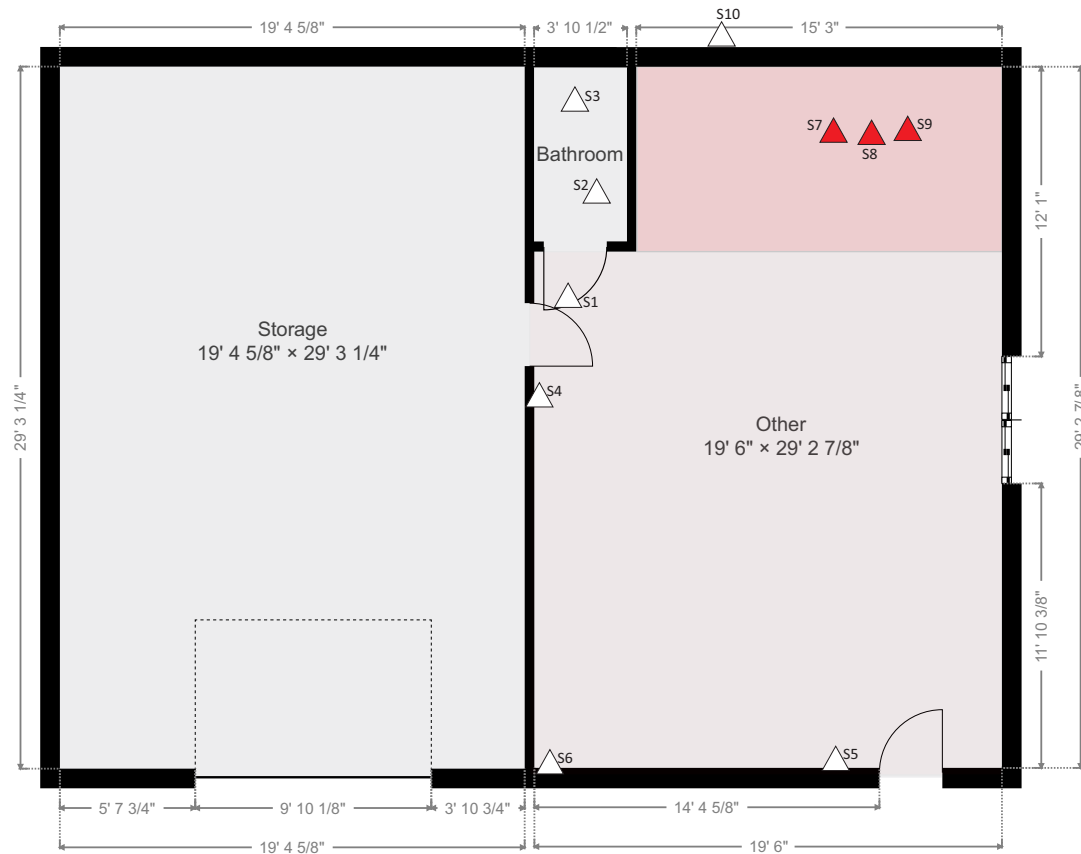
Date: December 13, 2021  
Completed By: K. Spencer  
Reviewed By: S. Spencer  
Version: WSI-001  
Project No.: 0506-11-05

Figure:

03

Sheet 03 of 04





0' 2' 4' 6' 8' 1:66

### Explanation

- Sample Location Non-Detect for Asbestos
- Sample Location >1% for Asbestos
- Asbestos Containing Sheet Vinyl
- Potential Asbestos Containing Sheet Vinyl Under Plywood

### Asbestos Sample Location Map Building 2102

Asbestos Building Materials Survey  
18049 US-395, Lakeview, Oregon  
Lake County Parcel: 39S20E04-A0-00800

Date: December 13, 2021  
Completed By: K. Spencer  
Reviewed By: S. Spencer  
Version: WSI-001  
Project No.: 0506-11-05

Figure:

04

Sheet 04 of 04



# Appendix B

## Appendix B: Project Tables

### Asbestos Sample Survey Log

# Appendix B

Project Tables



**White Shield**  
Progressive Solutions. Traditional Values

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
Building 2003					
S1-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA
S2-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA
S3-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA
S4-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA
S5-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S6-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA
S7-DW	Drywall, White/ Brown	None Detected	Yes	Fair	NA
S8-CT	Ceiling Tile, Beige/ White	None Detected	Yes	Fair	NA
S9-CT	Ceiling Tile, Beige/ White	None Detected	Yes	Fair	NA
S10-CT	Ceiling Tile, Beige/ White	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S11-VT	LAYER 1 Vinyl Tile, White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow/ Tan	None Detected			
	LAYER 3 Vinyl Tile, Brown	None Detected			
S12-VT	LAYER 1 Vinyl Tile, White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow/ Tan	None Detected			
	LAYER 3 Vinyl Tile, Brown	None Detected			
S13-VT	LAYER 1 Vinyl Tile, White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow/ Tan	None Detected			
	LAYER 3 Vinyl Tile, Brown	None Detected			
S14-VT	LAYER 1 Vinyl Tile, White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow/ Tan	None Detected			
	LAYER 3 Vinyl Tile, Black	None Detected			
S15-VT	LAYER 1 Vinyl Tile, White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow/ Tan	None Detected			
	LAYER 3 Vinyl Tile, Black	None Detected			



## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S16-VT	LAYER 1 Vinyl Tile, White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow/ Tan	None Detected			
	LAYER 3 Vinyl Tile, Black	None Detected			
S17-CB	LAYER 1 Cove Base, Off White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S18-CB	LAYER 1 Cove Base, Off White	None Detected	Yes	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S19-CB	LAYER 1 Cove Base, Off White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S20-CB	LAYER 1 Cove Base, Dk. Brown	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S21-CB	LAYER 1 Cove Base, Dk. Brown	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S22-CB	LAYER 1 Cove Base, Dk. Brown	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S23-SV	Sheet Vinyl, Beige/ Off White	None Detected	Yes	Fair	NA
S24-SV	Sheet Vinyl, Beige/ Off White	None Detected	Yes	Fair	NA
S25-SV	Sheet Vinyl, Beige/ Off White	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_



Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S26-FB	Fiber Board, Gray	Chrysotile 15%	Yes	Fair	
S27-I	Insulation, White	None Detected	Yes	Fair	NA
S28-I	Insulation, Gray	None Detected	Yes	Fair	NA
S29-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S30-VT	LAYER 1 Vinyl Tile, Tan	Chrysotile 5%	No	Fair	
	LAYER 2 Mastic, Beige	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_




Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S31-VT	LAYER 1 Vinyl Tile, Tan	Chrysotile 5%	No	Fair	
	LAYER 2 Mastic, Beige	None Detected			
S32-VT	LAYER 1 Vinyl Tile, Tan	Chrysotile 5%	No	Fair	
	LAYER 2 Mastic, Beige	None Detected			
S33-VT	LAYER 1 Vinyl Tile, Tan	Chrysotile 5%	No	Fair	
	LAYER 2 Mastic, Beige	None Detected			
S34-SV	Sheet Vinyl, Gray/ Off White	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

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Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S35-SV	Sheet Vinyl, Gray/ Off White	None Detected	Yes	Fair	NA
S36-SV	Sheet Vinyl, Gray/ Off White	None Detected	Yes	Fair	NA
S37-VT	LAYER 1 Vinyl Tile, Tan	Chrysotile 5%	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S38-VT	Ceiling Tile, Beige/ White	None Detected	No	Fair	NA
S39-FB	Felt Paper, Black	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

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Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
Building 2004					
S1-DW	LAYER 1 Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2 Texture, White	None Detected			
S2-DW	LAYER 1 Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2 Texture/ Paint, White	None Detected			
S3-DW	LAYER 1 Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2 Texture/ Paint, White	None Detected			
S4-DW	LAYER 1 Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2 Texture/ Paint, White	None Detected			
S5-DW	LAYER 1 Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2 Texture, White	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

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Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S6-SSV	LAYER 1Sheet Vinyl, Pebble Pattern	None Detected	Yes	Fair	NA
	LAYER 2Mastic, Green	None Detected			
S7-SV	LAYER 1Sheet Vinyl, Pebble Pattern	None Detected	Yes	Fair	NA
	LAYER 2Mastic, Green	None Detected			
S8-SV	LAYER 1Sheet Vinyl, Pebble Pattern	None Detected	Yes	Fair	NA
	LAYER 2Mastic, Green	None Detected			
S9-CT	Ceiling Tile, Beige	None Detected	Yes	Fair	NA

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### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

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Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S10-CT	Ceiling Tile, Beige	None Detected	Yes	Fair	NA
S11-CT	Ceiling Tile, Beige	None Detected	Yes	Fair	NA
S12-CB	LAYER 1Cove Base, Beige/ Gray	None Detected	Yes	Fair	NA
	LAYER 2Cove Base Mastic, Clear/ Yellow	None Detected			
S13-CB	LAYER 1Cove Base, Beige/ Gray	None Detected	Yes	Fair	NA
	LAYER 2Cove Base Mastic, Clear/ Yellow	None Detected			
S14-CB	LAYER 1Cove Base, Beige/ Gray	None Detected	Yes	Fair	NA
	LAYER 2Cove Base Mastic, Clear/ Yellow	None Detected			



## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S15-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S16-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S17-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S18-FP	Felt Paper, Black/ Red	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
Building 2100					
S1-SV	LAYER 1Sheet Vinyl, Beige	None Detected	Yes	Fair	NA
	LAYER 2Mastic, Yellow/ Black	None Detected			
S2-SV	LAYER 1Sheet Vinyl, Beige	None Detected	Yes	Fair	NA
	LAYER 2Mastic, Yellow	None Detected			
S3-SV	LAYER 1Sheet Vinyl, Beige	None Detected	Yes	Fair	NA
	LAYER 2Mastic, Yellow	None Detected			
S4-VT	LAYER 1Vinyl Floor Tile, Brown w /White Specs.	None Detected	No	Fair	NA
	LAYER 2Mastic, Yellow	None Detected			
S5-VT	LAYER 1Vinyl Floor Tile, Brown w /White Specs.	None Detected	No	Fair	NA
	LAYER 2Mastic, Yellow	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S6-VT	LAYER 1Vinyl Floor Tile, Brown w /White Specs.	None Detected	No	Fair	NA
	LAYER 2Mastic, Yellow	None Detected			
S7-CT	Ceiling Tile, White/ Beige	None Detected	Yes	Fair	NA
S8-CT	Ceiling Tile, White/ Brown	None Detected	Yes	Fair	NA
S9-CT	Ceiling Tile, White/ Tan	None Detected	Yes	Fair	NA
S10-I	Insulation, Yellow	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S11-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S12-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S13-FP	Felt Paper, Brown/ Black	None Detected	Yes	Fair	NA
2101					
S1-DW	LAYER 1Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2Joint Compound, Off White	None Detected			
S2-DW	LAYER 1Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2Texture/ Paint, Off White/ Lt. Gray	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S3-DW	LAYER 1Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2Texture/ Paint, Off White/ Lt. Gray	None Detected			
S4-DW	LAYER 1Drywall, White/ Brown	None Detected	Yes	Fair	NA
	LAYER 2Joint Compound, Off White	None Detected			
	LAYER 3Texture/ Paint, Off White/ Lt. Gray	None Detected			
S5-FP	Felt, Black	None Detected	Yes	Fair	NA
2102					
S1-VT	LAYER 1 Vinyl Tile, Off White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow	None Detected			
S2-VT	LAYER 1 Vinyl Tile, Off White	None Detected	No	Fair	NA
	LAYER 2 Mastic, Yellow	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S3-VT	Vinyl Tile, Off White	None Detected	No	Fair	NA
S4-CB	LAYER 1 Cove Base, Brown	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S5-CB	LAYER 1 Cove Base, Brown	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			
S6-CB	LAYER 1 Cove Base, Brown	None Detected	No	Fair	NA
	LAYER 2 Mastic, Beige	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

Project: Fremont-Winema National Forest

Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_




Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S7-SV	Sheet Vinyl, Beige/ Off White	Chrysotile 18%	Yes	Fair	
S8-SV	LAYER 1 Sheet Vinyl, Beige/ Off White	Chrysotile 18%	Yes	Fair	
	LAYER 2 Mastic, Tan	Chrysotile 5%			
S9-SV	LAYER 1 Sheet Vinyl, Beige/ Off White	Chrysotile 18%	Yes	Fair	
	LAYER 2 Mastic, Tan	Chrysotile 5%			
S10-FP	Felt Paper, Black	None Detected	Yes	Fair	NA
Building 2207					
S1-DW	LAYER 1Drywall, White/ Lt. Brown	None Detected	Yes	Fair	NA
	LAYER 2Fiber Mesh, White	None Detected			
	LAYER 3Texture, White/ Lt. Blue	None Detected			

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### Fremont-Winema National Forest

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Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S2-DW	LAYER 1Drywall, White/ Lt. Brown	None Detected	Yes	Fair	NA
	LAYER 2Texture, White/ Lt. Blue	None Detected			
S3-DW	LAYER 1Drywall, White/ Lt. Brown	None Detected	Yes	Fair	NA
	LAYER 2Texture, White/ Lt. Blue	None Detected			
S4-DW	LAYER 1Drywall, White/ Lt. Brown	None Detected	Yes	Fair	NA
	LAYER 2Textured Paint, Lt. Blue	None Detected			
S5-DW	LAYER 1Drywall, White/ Lt. Brown	None Detected	Yes	Fair	NA
	LAYER 2Texture, White/ Lt. Blue	None Detected			



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### Fremont-Winema National Forest

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Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S6-SV	Sheet Vinyl, Gray/ Pebble Pattern	None Detected	Yes	Fair	NA
S7-SV	LAYER 1Sheet Vinyl, Gray/ Pebble Pattern	None Detected	Yes	Fair	NA
	LAYER 2Adhesive, Yellow	None Detected			
S8-SV	Sheet Vinyl, Gray/ Pebble Pattern	None Detected	Yes	Fair	NA
S9-CB	LAYER 1Cove Base, Gray	None Detected	No	Fair	NA
	LAYER 2Cove Base Adhesive, Brown/Yellow	None Detected			
S10-CB	LAYER 1Cove Base, Gray	None Detected	No	Fair	NA
	LAYER 2Cove Base Adhesive, Brown/Yellow	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

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Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S11-CB	LAYER 1Cove Base, Gray	None Detected	No	Fair	NA
	LAYER 2Cove Base Adhesive, Brown/Yellow	None Detected			
S12-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S13-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S14-I	Insulation, Yellow	None Detected	Yes	Fair	NA
S15-FP	Felt Paper, Black	None Detected	Yes	Fair	NA

## Table 1: Asbestos Survey Log

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Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

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AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
Building 2215					
S1-FP	Felt Paper, Black	None Detected	Yes	Fair	NA
Building 2403					
S1-FP	Felt Paper, Black	None Detected	Yes	Fair	NA
Building 2505					
S1-FP	Felt Paper, Black	None Detected	Yes	Fair	NA
Building 2605					
S1-WP	Window Putty/ Paint, White/ Brown	None Detected	Yes	Fair	NA

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Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S2-WP	Window Putty/ Paint, White/ Brown	None Detected	No	Fair	NA
S3-WP	Window Putty/ Paint, White/ Brown	None Detected	No	Fair	NA
S4-FP	Felt Paper, Black	None Detected	Yes	Fair	NA
Building 2615					
S1-TSI	TSI, White	None Detected	Yes	Fair	NA
S2-TSI	TSI, White	None Detected	Yes	Fair	NA

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Phone: \_\_\_\_\_

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AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S3-TSI	TSI, White	None Detected	Yes	Fair	NA
S4-DW	LAYER 1Drywall, White/ Brown/ Off White	None Detected	Yes	Fair	NA
	LAYER 2Texture/ Paint, White/ Off White	None Detected			
S5-DW	Drywall, White/ Brown/ Off White	None Detected	Yes	Fair	NA
S6-DW	LAYER 1Drywall, White/ Brown/ Off White	None Detected	Yes	Fair	NA
	LAYER 2Texture/ Paint, White/ Off White	None Detected			
S7-VT	LAYER 1Vinyl Tile, Off White	None Detected	No	Fair	NA
	LAYER 2Mastic, Clear/ Yellow	None Detected			
	LAYER 3Vinyl Tile, Lt. Blue	None Detected			
	LAYER 4Mastic, Clear/ Yellow	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

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Project Information:

Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

ECI Project No. 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S8-VT	LAYER 1Vinyl Tile, Off White	None Detected	No	Fair	NA
	LAYER 2Mastic, Clear/ Yellow	None Detected			
	LAYER 3Vinyl Tile, Lt. Blue	None Detected			
	LAYER 4Mastic, Clear/ Yellow	None Detected			
S9-VT	LAYER 1Vinyl Tile, Off White	None Detected	No	Fair	NA
	LAYER 2Mastic, Clear/ Yellow	None Detected			
	LAYER 3Vinyl Tile, Lt. Blue	None Detected			
	LAYER 4Mastic, Clear/ Yellow	None Detected			
S10-CB	LAYER 1Cove Base, Dk. Brown	None Detected	No	Fair	NA
	LAYER 2Mastic, Beige	None Detected			

## Table 1: Asbestos Survey Log

### Fremont-Winema National Forest

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Client: White Shield

Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: 18049 US-395 Lakeview, OR 97630

AHERA Inspector: Kyle Spencer

Certification No.: 158623

Date: December 13, 2022

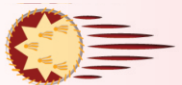
ECI Project No 0506-11-01

Sample ID	Laboratory Layer Description	PLM Analytical Results Discrete	Friable	Condition	Photograph
S11-CB	LAYER 1Cove Base, Dk. Brown	None Detected	No	Fair	NA
	LAYER 2Mastic, Beige	None Detected			
S12-CB	LAYER 1Cove Base, Dk. Brown	None Detected	No	Fair	NA
	LAYER 2Mastic, Beige	None Detected			
S13-FP	Felt Paper, Black	None Detected	Yes	Fair	NA

# Appendix C

## Appendix C: Project Analytical Results Laboratory Report - Bulk Asbestos PLM Analysis Chain of Custody

**Appendix C**  
Project Analytical Results



**White Shield**  
Progressive Solutions. Traditional Values



# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0282996**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-001 S1-DW		Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
0282996-002 S2-DW		Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
0282996-003 S3-DW		Drywall, Pink/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
0282996-004 S4-DW		Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
0282996-005 S5-DW		Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%

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Laboratory Report

**0282996**

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NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-006 S6-DW		Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
0282996-007 S7-DW		Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
0282996-008 S8-CT		Ceiling Tile, Beige/ White	No	None Detected	Cellulose Fiber 40% Mineral Wool 40% Carbonates Perlite Binder/Filler 20%
0282996-009 S9-CT		Ceiling Tile, Beige/ White	No	None Detected	Cellulose Fiber 40% Mineral Wool 40% Carbonates Perlite Binder/Filler 20%
0282996-010 S10-CT		Ceiling Tile, Beige/ White	No	None Detected	Cellulose Fiber 40% Mineral Wool 40% Carbonates Perlite Binder/Filler 20%

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	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-011 S11-VT		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%

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Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-013 S13-VT		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282996-014 S14-VT		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber Quartz Gypsum Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Black	No	None Detected	Carbonates Quartz Binder/Filler 100%

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Laboratory Report

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NVLAP#101926-0

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	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-015 S15-VT		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber 2% Quartz Gypsum Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Black	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282996-016 S16-VT		LAYER 1 Vinyl Tile, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow/ Tan	No	None Detected	Cellulose Fiber 2% Quartz Gypsum Carbonates Binder/Filler 98%
		LAYER 3 Vinyl Tile, Black	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282996-017 S17-CB		LAYER 1 Cove Base, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber 1% Quartz Carbonates Binder/Filler 99%

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Laboratory Report  
**0282996**

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NVLAP#101926-0

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Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-018 S18-CB		LAYER 1 Cove Base, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler <1% 99%
0282996-019 S19-CB		LAYER 1 Cove Base, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler <1% 99%
0282996-020 S20-CB		LAYER 1 Cove Base, Dk. Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 1% 99%
0282996-021 S21-CB		LAYER 1 Cove Base, Dk. Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 1% 99%

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Laboratory Report

**0282996**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-022 S22-CB		LAYER 1 Cove Base, Dk. Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 99%
0282996-023 S23-SV		Sheet Vinyl, Beige/ Off White	No	None Detected	Cellulose Fiber Fibrous Glass Carbonates Quartz Binder/Filler 87%
0282996-024 S24-SV		Sheet Vinyl, Beige/ Off White	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 85%
0282996-025 S25-SV		Sheet Vinyl, Beige/ Off White	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 85%
0282996-026 S26-FB		Fiber Board, Gray	Yes	Chrysotile 15%	Cellulose Fiber Carbonates Mica Quartz Binder/Filler 82%
0282996-027 S27-I		Insulation, White	No	None Detected	Fibrous Glass Cellulose Fiber Gypsum Carbonates Binder/Filler 95% 2% 3%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0282996**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-028 S28-I		Insulation, Gray	No	None Detected	Fibrous Glass 95% Gypsum Carbonates Binder/Filler 5%
0282996-029 S29-I		Insulation, Yellow	No	None Detected	Fibrous Glass 95% Gypsum Carbonates Binder/Filler 5%
0282996-030 S30-VT		LAYER 1 Vinyl Tile, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber 2% Quartz Carbonates Binder/Filler 98%
0282996-031 S31-VT		LAYER 1 Vinyl Tile, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%



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## Bulk Asbestos Analysis by Polarized Light Microscopy

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Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-032 S32-VT		LAYER 1 Vinyl Tile, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 1 Vinyl Tile, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282996-034 S34-SV		Sheet Vinyl, Gray/ Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		Sheet Vinyl, Gray/ Off White	No	None Detected	Cellulose Fiber 15% Fibrous Glass 3% Synthetic Fiber 2% Carbonates Quartz Binder/Filler 80%
0282996-036 S36-SV		Sheet Vinyl, Gray/ Off White	No	None Detected	Cellulose Fiber 15% Fibrous Glass 3% Synthetic Fiber 2% Carbonates Quartz Binder/Filler 80%

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Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/08/2022
Collected:	11/17/2022	Date Reported:	12/08/2022
Project Name:	LAKEVIEW BLDG 2003	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282996-037 S37-VT		LAYER 1 Vinyl Tile, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%
0282996-038 S38-CT		Ceiling Tile, Beige/ White	No	None Detected	Cellulose Fiber 75% Mineral Wool 5%
					Carbonates Quartz Perlite Binder/Filler 20%
0282996-039 S39-FB		Felt Paper, Black	No	None Detected	Cellulose Fiber 35%
					Carbonates Gypsum Binder/Filler 65%

  
Analyst - Johann Hofer

  
Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

**CHAIN OF CUSTODY**

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#: 282996  
TAT: 6-10 days  
Rec'd: NOV 21 P.M.

COMPANY NAME: ECI Environmental  
Address: PO Box 153  
Fox Island WA 98333  
CONTACT: Kyle Spencer  
Phone/Fax: 2532792803  
Email: \_\_\_\_\_

BILL TO: (If Different Location)

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [6-10 Days]\*\*\*Prior confirmation of turnaround time is required

\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2003**P.O. Number:** \_\_\_\_\_ **Project Number:** 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	S1-DW	11/17/2022	Drywall	Y N			
2	S2-DW	11/17/2022	Drywall	Y N			
3	S3-DW	11/17/2022	Drywall	Y N			
4	S4-DW	11/17/2022	Drywall	Y N			
5	S5-DW	11/17/2022	Drywall	Y N			
6	S6-DW	11/17/2022	Drywall	Y N			
7	S7-DW	11/17/2022	Drywall	Y N			
8	S8-CT	11/17/2022	Ceiling Tile	Y N			
9	S9-CT	11/17/2022	Ceiling Tile	Y N			
10	S10-CT	11/17/2022	Ceiling Tile	Y N			
11	S11-VT	11/17/2022	Vinyl Tile	Y N			
12	S12-VT	11/17/2022	Vinyl Tile	Y N			
13	S13-VT	11/17/2022	Vinyl Tile	Y N			
14	S14-VT	11/17/2022	Vinyl Tile	Y N			
15	S15-VT	11/17/2022	Vinyl Tile	Y N			

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print) Kyle Spencer (Signature) [Signature] 90  
Relinquished by: Kyle S. Date/Time: 11-18-22 Received by: Diana Federico Date/Time: 11/21/22  
Relinquished by: Diana Federico Date/Time: 11/21/22 Received by: [Signature] Date/Time: 11-21-22  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

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9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#:

TAT:

Rec'd:

282996

COMPANY NAME:

Address:

BILL TO:

(If Different Location)

CONTACT:

Phone/Fax:

Email:

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2003**P.O. Number:** \_\_\_\_\_ **Project Number:** 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
10	S16-VT	11/17/2022	Vinyl Tile	Y N			
17	S17-CB	11/17/2022	Cove Base	Y N			
18	S18-CB	11/17/2022	Cove Base	Y N			
19	S19-CB	11/17/2022	Cove Base	Y N			
20	S20-CB	11/17/2022	Cove Base	Y N			
21	S21-CB	11/17/2022	Cove Base	Y N			
22	S22-CB	11/17/2022	Cove Base	Y N			
23	S23-SV	11/17/2022	Sheet Vinyl	Y N			
24	S24-SV	11/17/2022	Sheet Vinyl	Y N			
25	S25-SV	11/17/2022	Sheet Vinyl	Y N			
26	S26-FB	11/17/2022	Fiber Board	Y N			
27	S27-I	11/17/2022	Insulation	Y N			
28	S28-I	11/17/2022	Insulation	Y N			
29	S29-I	11/17/2022	Insulation	Y N			
30	S30-VT	11/17/2022	Vinyl Tile	Y N			

**SPECIAL INSTRUCTIONS:** \_\_\_\_\_

Sample Collector: (Print) \_\_\_\_\_

(Signature) \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by: Diana FedriaDate/Time: 11/21/22Relinquished by: Diana FedriaDate/Time: 11/21/22Received by: JDDate/Time: 11-21-22

Relinquished by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

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LAB#:

TAT:

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282996

COMPANY NAME:

Address:

CONTACT:

Phone/Fax:

Email:

BILL TO:

(If Different Location)

Now Accepting: **VISA – MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)****1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

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**2. TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2003**P.O. Number:** \_\_\_\_\_ **Project Number:** Q506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
31	S31-VT	11/17/2022	Vinyl Tile	Y N			
32	S32-VT	11/17/2022	Vinyl Tile	Y N			
33	S33-VT	11/17/2022	Vinyl Tile	Y N			
34	S34-SV	11/17/2022	Sheet Vinyl	Y N			
35	S35-SV	11/17/2022	Sheet Vinyl	Y N			
36	S36-SV	11/17/2022	Sheet Vinyl	Y N			
37	S37-VT	11/17/2022	Vinyl Tile	Y N			
38	S38-CT	11/17/2022	Ceiling Tile	Y N			
39	S39-FP	11/17/2022	Felt paper	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**Sample Collector: (Print) \_\_\_\_\_ (Signature) JanRelinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: Diana Federico Date/Time: 11/21/22Relinquished by: Diana Federico Date/Time: 11/21/22 Received by: JDH Date/Time: 11-21-22

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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Laboratory Report

**0282997**

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	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2004	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282997-001 S1-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 12% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture, White	No	None Detected	Cellulose Fiber <1% Carbonates Mica Quartz Perlite Binder/Filler 99%
0282997-002 S2-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture/ Paint, White Note: Layer is mainly Paint - little Texture present	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282997-003 S3-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture/ Paint, White Note: Layer is mainly Paint - little Texture present	No	None Detected	Carbonates Quartz Binder/Filler 100%

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Project Name:	LAKEVIEW BLDG 2004	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282997-004 S4-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture/ Paint, White Note: Layer is mainly Paint - little Texture present	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture, White	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler 100%
0282997-005 S5-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture, White	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler 100%
		LAYER 1 Sheet Vinyl, Pebble Pattern	No	None Detected	Cellulose Fiber 5% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 90%
		LAYER 2 Mastic, Green	No	None Detected	Cellulose Fiber 1% Carbonates Quartz Binder/Filler 99%

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Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0282997-007 S7-SV		LAYER 1	No	None Detected	Cellulose Fiber	5%
		Sheet Vinyl, Pebble Pattern			Synthetic Fiber	5%
					Carbonates	
					Quartz	
			No	None Detected	Binder/Filler	90%
		LAYER 2			Cellulose Fiber	1%
		Mastic, Green			Carbonates	
					Quartz	
					Binder/Filler	99%
0282997-008 S8-SV		LAYER 1	No	None Detected	Cellulose Fiber	5%
		Sheet Vinyl, Pebble Pattern			Synthetic Fiber	5%
					Carbonates	
					Quartz	
			No	None Detected	Binder/Filler	90%
		LAYER 2			Cellulose Fiber	2%
		Mastic, Green			Synthetic Fiber	<1%
		Note: Difficult to separate adjacent layer			Carbonates	
					Quartz	
					Binder/Filler	97%
0282997-009 S9-CT		Ceiling Tile, Beige	No	None Detected	Cellulose Fiber	60%
					Mineral Wool	20%
					Carbonates	
					Quartz	
					Perlite	
					Binder/Filler	20%
0282997-010 S10-CT		Ceiling Tile, Beige	No	None Detected	Cellulose Fiber	60%
					Mineral Wool	20%
					Carbonates	
					Quartz	
					Perlite	
					Binder/Filler	20%



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Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282997-011 S11-CT		Ceiling Tile, Beige	No	None Detected	Cellulose Fiber 60% Mineral Wool 20% Carbonates Quartz Perlite Binder/Filler 20%
0282997-012 S12-CB		LAYER 1 Cove Base, Beige/ Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Cove Base Mastic, Clear/ Yellow Note: Insufficient Sample			Carbonates Quartz Binder/Filler 100%
0282997-013 S13-CB		LAYER 1 Cove Base, Beige/ Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Cove Base Mastic, Clear/ Yellow	No	None Detected	Carbonates Perlite Binder/Filler 100%
0282997-014 S14-CB		LAYER 1 Cove Base, Beige/ Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Cove Base Mastic, Clear/ Yellow	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%

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	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
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Project Name:	LAKEVIEW BLDG 2004	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0282997-015 S15-I		Insulation, Yellow	No	None Detected	Fibrous Glass	100%
0282997-016 S16-I		Insulation, Yellow	No	None Detected	Fibrous Glass	100%
0282997-017 S17-I		Insulation, Yellow	No	None Detected	Fibrous Glass	100%
0282997-018 S18-FP		Felt Paper, Black/ Red	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler	65%  35%



Analyst - Mark Steiner



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

# CHAIN OF CUSTODY

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#: 282997  
TAT: 6-10 days  
Rec'd: NOV 21 P.M.

COMPANY NAME: ECI Environmental  
Address: PO Box 153  
Fox Island WA 98333  
CONTACT: Kyle Spencer  
Phone/Fax: 2532792803  
Email: \_\_\_\_\_

BILL TO: (If Different Location)

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2004

P.O. Number: \_\_\_\_\_

Project Number: 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
<u>1</u>	S1-DW	11/17/2022	Drywall	<u>(Y)</u> N			
<u>2</u>	S2-DW	11/17/2022	Drywall	Y N			
<u>3</u>	S3-DW	11/17/2022	Drywall	Y N			
<u>4</u>	S4-DW	11/17/2022	Drywall	Y N			
<u>5</u>	S5-DW	11/17/2022	Drywall	Y N			
<u>6</u>	S6-SV	11/17/2022	Sheet Vinyl	Y N			
<u>7</u>	S7-SV	11/17/2022	Sheet Vinyl	Y N			
<u>8</u>	S8-SV	11/17/2022	Sheet Vinyl	Y N			
<u>9</u>	S9-CT	11/17/2022	Ceiling Tile	Y N			
<u>10</u>	S10-CT	11/17/2022	Ceiling Tile	Y N			
<u>11</u>	S11-CT	11/17/2022	Ceiling Tile	Y N			
<u>12</u>	S12-CB	11/17/2022	Cove Base	Y N			
<u>13</u>	S13-CB	11/17/2022	Cove Base	Y N			
<u>14</u>	S14-CB	11/17/2022	Cove Base	Y N			
<u>15</u>	S15-I	11/17/2022	Insulation	<u>(Y)</u> N			

**SPECIAL INSTRUCTIONS:**Sample Collector: (Print) Kyle Spencer(Signature) [Signature]Relinquished by: 11-14-22

Date/Time: \_\_\_\_\_

Received by: Diana FedericoDate/Time: 11/21/22Relinquished by: Diana FedericoDate/Time: 11/21/22 4pmReceived by: [Signature]Date/Time: 11/21/22

Relinquished by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: 11/21/22

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0282999**

## **Bulk Asbestos Analysis by Polarized Light Microscopy**

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2100	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282999-001 S1-SV		LAYER 1 Sheet Vinyl, Beige	No	None Detected	Cellulose Fiber 17% Fibrous Glass 3% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Mastic, Yellow/ Black	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%
		LAYER 1 Sheet Vinyl, Beige	No	None Detected	Cellulose Fiber 17% Fibrous Glass 3% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber 1% Carbonates Quartz Binder/Filler 99%
0282999-003 S3-SV		LAYER 1 Sheet Vinyl, Beige	No	None Detected	Cellulose Fiber 17% Fibrous Glass 3% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber 3% Fibrous Glass <1% Carbonates Quartz Binder/Filler 96%
		LAYER 1 Sheet Vinyl, Beige	No	None Detected	Cellulose Fiber 17% Fibrous Glass 3% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber 3% Fibrous Glass <1% Carbonates Quartz Binder/Filler 96%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0282999**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2100	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282999-004 S4-VT		LAYER 1 Vinyl Floor Tile, Brown w /White Specs.	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 1%
0282999-005 S5-VT		LAYER 1 Vinyl Floor Tile, Brown w /White Specs.	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282999-006 S6-VT		LAYER 1 Vinyl Floor Tile, Brown w /White Specs.	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%
0282999-007 S7-CT		Ceiling Tile, White/ Beige	No	None Detected	Cellulose Fiber Mineral Wool Carbonates Quartz Perlite Binder/Filler 40% 40% 20%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
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Laboratory Report

**0282999**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2100	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282999-008 S8-CT		Ceiling Tile, White/ Brown	No	None Detected	Cellulose Fiber 80% Carbonates Gypsum Perlite Binder/Filler 20%
0282999-009 S9-CT		Ceiling Tile, White/ Tan	No	None Detected	Cellulose Fiber 85% Carbonates Gypsum Binder/Filler 15%
0282999-010 S10-I		Insulation, Yellow	No	None Detected	Fibrous Glass 85% Carbonates Gypsum Binder/Filler 15%
0282999-011 S11-I		Insulation, Yellow	No	None Detected	Fibrous Glass 85% Carbonates Gypsum Binder/Filler 15%
0282999-012 S12-I		Insulation, Yellow	No	None Detected	Fibrous Glass 85% Carbonates Gypsum Binder/Filler 15%
0282999-013 S13-FP		Felt Paper, Brown/ Black	No	None Detected	Cellulose Fiber 45% Organic Material 10% Fibrous Glass 5% Carbonates Gypsum Binder/Filler 40%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0282999**

## Bulk Asbestos Analysis by Polarized Light Microscopy

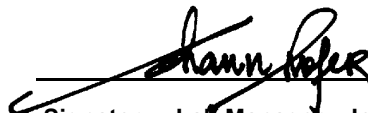
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2100	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID	Sample	Layer Name /	Asbestos	Asbestos Type	Non-Asbestos
Client ID	Location	Sample Description	Detected	(%)	Constituents



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.



**CHAIN OF CUSTODY**

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#: 282999  
TAT: 6-10 days  
Rec'd: NOV 21 PM

COMPANY NAME: ECI Environmental  
Address: PO Box 153  
Fox Island WA 98333  
CONTACT: Kyle Spencer  
Phone/Fax: 2532792803  
Email: \_\_\_\_\_

BILL TO: (If Different Location)

Now Accepting: **VISA – MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [6-10 Days]\*\*\*Prior confirmation of turnaround time is required

\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2100**P.O. Number:** \_\_\_\_\_ **Project Number:** 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	S1-SV	11/17/2022	Sheet Vinyl	Y N			
2	S2-SV	11/17/2022	Sheet Vinyl	Y N			
3	S3-SV	11/17/2022	Sheet Vinyl	Y N			
4	S4-VT	11/17/2022	Vinyl Tile	Y N			
5	S5-VT	11/17/2022	Vinyl Tile	Y N			
6	S6-VT	11/17/2022	Vinyl Tile	Y N			
7	S7-CT	11/17/2022	Ceiling Tile	Y N			
8	S8-CT	11/17/2022	Ceiling Tile	Y N			
9	S9-CT	11/17/2022	Ceiling Tile	Y N			
10	S10-I	11/17/2022	Insulation	Y N			
11	S11-I	11/17/2022	Insulation	Y N			
12	S12-I	11/17/2022	Insulation	Y N			
13	S13-FP	11/17/2022	Felt Paper	Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**Sample Collector: (Print) Kyle Spencer (Signature) [Signature] JanRelinquished by: Kyle Date/Time: 11-18-22 Received by: Diana Federico Date/Time: 11/21/22Relinquished by: Diana Federico Date/Time: 11/21/22 Received by: [Signature] Date/Time: 11/21/22

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283000**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/05/2022
Collected:	11/17/2022	Date Reported:	12/05/2022
Project Name:	LAKEVIEW BLDG 2101	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0283000-001 S1-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber Gypsum Carbonates Mica Quartz	10%    90%
		LAYER 2 Joint Compound, Off White	No	None Detected	Carbonates Mica Perlite Quartz Binder/Filler	    100%
0283000-002 S2-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber Fibrous Glass Gypsum Carbonates Mica Quartz	10% 3%   87%
		LAYER 2 Texture/ Paint, Off White/ Lt. Gray Note: Layer is mainly Paint - little Texture present	No	None Detected	Carbonates Mica Quartz Binder/Filler	   100%
0283000-003 S3-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber Fibrous Glass Gypsum Carbonates Mica Quartz	10% 3%   87%
		LAYER 2 Texture/ Paint, Off White/ Lt. Gray Note: Layer is mainly Paint - little Texture present	No	None Detected	Carbonates Mica Quartz Binder/Filler	   100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283000**

## Bulk Asbestos Analysis by Polarized Light Microscopy

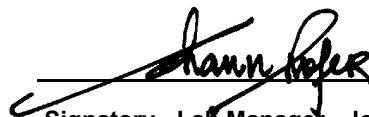
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/05/2022
Collected:	11/17/2022	Date Reported:	12/05/2022
Project Name:	LAKEVIEW BLDG 2101	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283000-004 S4-DW		LAYER 1 Drywall, White/ Brown	No	None Detected	Cellulose Fiber 10% Gypsum Carbonates Mica Quartz 90%
		LAYER 2 Joint Compound, Off White	No	None Detected	Carbonates Mica Quartz 100%
		LAYER 3 Texture/ Paint, Off White/ Lt. Gray	No	None Detected	Carbonates Mica Quartz Binder/Filler 100%
0283000-005 S5-FP		Felt, Black	No	None Detected	Cellulose Fiber 50% Gypsum Binder/Filler 50%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

**CHAIN OF CUSTODY**

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#: 283000  
TAT: 6-10 days  
Rec'd: NOV 21 P.M.

COMPANY NAME: ECI Environmental

Address: PO Box 153  
Fox Island WA 98333

CONTACT: Kyle SpencerPhone/Fax: 2532792803

Email: \_\_\_\_\_

BILL TO: (If Different Location)

Now Accepting: **VISA – MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2101**P.O. Number:** \_\_\_\_\_ **Project Number:** 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	S1-DW	11/17/2022	Drywall	N			
2	S2-DW	11/17/2022	Drywall	Y N			
3	S3-DW	11/17/2022	Drywall	Y N			
4	S4-DW	11/17/2022	Drywall	Y N			
5	S5-FP	11/17/2022	Felt Paper	N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**Sample Collector: (Print) Kyle Spencer(Signature) [Signature]Relinquished by: Kyle S.Date/Time: 11-16-22Received by: Diana FedericoDate/Time: 11/21/22Relinquished by: Diana FedericoDate/Time: 11/21/22Received by: [Signature]Date/Time: 11/21/22

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: 11/21/22

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283001**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2102	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283001-001 S1-VT		LAYER 1 Vinyl Tile, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 99%
		LAYER 1 Vinyl Tile, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Quartz Carbonates Binder/Filler 99%
0283001-003 S3-VT		Vinyl Tile, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283001-004 S4-CB		LAYER 1 Cove Base, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283001**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2102	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283001-005 S5-CB		LAYER 1 Cove Base, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 1 Cove Base, Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283001-007 S7-SV		Sheet Vinyl, Beige/ Off White	Yes	Chrysotile 18%	Cellulose Fiber 2% Carbonates Perlite Binder/Filler 80%
0283001-008 S8-SV		LAYER 1 Sheet Vinyl, Beige/ Off White	Yes	Chrysotile 18%	Cellulose Fiber 2% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Mastic, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283001**

## Bulk Asbestos Analysis by Polarized Light Microscopy

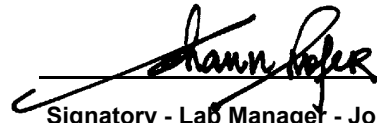
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2102	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283001-009 S9-SV		LAYER 1 Sheet Vinyl, Beige/ Off White	Yes	Chrysotile 18%	Cellulose Fiber 2% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Mastic, Tan	Yes	Chrysotile 5%	Carbonates Quartz Binder/Filler 95%
0283001-010 S10-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber 45% Carbonates Gypsum Binder/Filler 55%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

# CHAIN OF CUSTODY

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#:	283001
TAT:	6-10 days
Rec'd:	NOV 21 P.M.

COMPANY NAME: ECI Environmental

Address: PO Box 153  
Fox Island WA 98333

CONTACT: Kyle Spencer

Phone/Fax: 2532792803

Email: \_\_\_\_\_

BILL TO: (If Different Location)

Now Accepting: **VISA – MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)****1. TURNAROUND TIME:** [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2102**P.O. Number:** \_\_\_\_\_ **Project Number:** 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	S1-VT	11/17/2022	Vinyl Tile	Y N			
2	S2-VT	11/17/2022	Vinyl Tile	Y N			
3	S3-VT	11/17/2022	Vinyl Tile	Y N			
4	S4-CB	11/17/2022	Cove Base	Y N			
5	S5-CB	11/17/2022	Cove Base	Y N			
6	S6-CB	11/17/2022	Cove Base	Y N			
7	S7-SV	11/17/2022	Sheet Vinyl	Y N			
8	S8-SV	11/17/2022	Sheet Vinyl	Y N			
9	S9-SV	11/17/2022	Sheet Vinyl	Y N			
10	S10-FP	11/17/2022	Felt Paper	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**Sample Collector: (Print) Kyle Spencer (Signature) [Signature]Relinquished by: 11-18-22 Date/Time: \_\_\_\_\_ Received by: Diana Federico Date/Time: 11/21/22Relinquished by: Diana Federico Date/Time: 11/21/22 Received by: [Signature] Date/Time: 11/21/22

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283002**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/06/2022
Collected:	11/17/2022	Date Reported:	12/06/2022
Project Name:	LAKEVIEW BLDG 2207	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0283002-001 S1-DW		LAYER 1 Drywall, White/ Lt. Brown	No	None Detected	Cellulose Fiber	12%
					Gypsum Carbonates Quartz Mica	88%
		LAYER 2 Fiber Mesh, White	No	None Detected	Fibrous Glass	90%
					Carbonates	10%
		LAYER 3 Texture, White/ Lt. Blue	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler	100%
0283002-002 S2-DW		LAYER 1 Drywall, White/ Lt. Brown	No	None Detected	Cellulose Fiber	12%
					Gypsum Carbonates Quartz Mica	88%
		LAYER 2 Texture, White/ Lt. Blue	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler	100%
0283002-003 S3-DW		LAYER 1 Drywall, White/ Lt. Brown	No	None Detected	Cellulose Fiber	12%
					Gypsum Carbonates Quartz Mica	88%
		LAYER 2 Texture, White/ Lt. Blue	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler	100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283002**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/06/2022
Collected:	11/17/2022	Date Reported:	12/06/2022
Project Name:	LAKEVIEW BLDG 2207	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0283002-004 S4-DW		LAYER 1 Drywall, White/ Lt. Brown	No	None Detected	Cellulose Fiber	12%
					Gypsum Carbonates Quartz Mica	88%
		LAYER 2 Textured Paint, Lt. Blue	No	None Detected	Carbonates Quartz Binder/Filler	100%
0283002-005 S5-DW		LAYER 1 Drywall, White/ Lt. Brown	No	None Detected	Cellulose Fiber	12%
					Gypsum Carbonates Quartz Mica	88%
		LAYER 2 Texture, White/ Lt. Blue	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler	100%
0283002-006 S6-SV		Sheet Vinyl, Gray/ Pebble Pattern	No	None Detected	Cellulose Fiber	15%
					Fibrous Glass	3%
					Synthetic Fiber	2%
					Carbonates Quartz Binder/Filler	80%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283002**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/06/2022
Collected:	11/17/2022	Date Reported:	12/06/2022
Project Name:	LAKEVIEW BLDG 2207	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283002-007 S7-SV		LAYER 1 Sheet Vinyl, Gray/ Pebble Pattern	No	None Detected	Synthetic Fiber 15% Fibrous Glass 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Adhesive, Yellow	No	None Detected	Synthetic Fiber <1% Carbonates Quartz Binder/Filler 99%
0283002-008 S8-SV		Sheet Vinyl, Gray/ Pebble Pattern	No	None Detected	Synthetic Fiber 15% Fibrous Glass 5% Carbonates Quartz Binder/Filler 80%
0283002-009 S9-CB		LAYER 1 Cove Base, Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Cove Base Adhesive, Brown/Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283002-010 S10-CB		LAYER 1 Cove Base, Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Cove Base Adhesive, Brown/Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283002**

## Bulk Asbestos Analysis by Polarized Light Microscopy

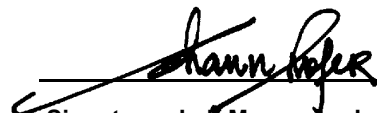
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/06/2022
Collected:	11/17/2022	Date Reported:	12/06/2022
Project Name:	LAKEVIEW BLDG 2207	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283002-011 S11-CB		LAYER 1 Cove Base, Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Cove Base Adhesive, Brown/Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283002-012 S12-I		Insulation, Yellow	No	None Detected	Fibrous Glass 100%
0283002-013 S13-I		Insulation, Yellow	No	None Detected	Fibrous Glass 100%
0283002-014 S14-I		Insulation, Yellow	No	None Detected	Fibrous Glass 100%
0283002-015 S15-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber Fibrous Glass Carbonates Gypsum Binder/Filler 50% 5% 45%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

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**CHAIN OF CUSTODY**

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#:

283002

TAT:

6-10 days

Rec'd:

NOV 21 PM

COMPANY NAME:

ECI Environmental

BILL TO:

(If Different Location)

Address:

PO Box 153

Fox Island WA 98333

CONTACT:

Kyle Spencer

Phone/Fax:

2532792803

Email:

Now Accepting: VISA - MASTERCARD

Price Quoted: \$ / Sample \$ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2207

P.O. Number:

Project Number: 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	S1-DW	11/17/2022	Drywall	Y N			
2	S2-DW	11/17/2022	Drywall	Y N			
3	S3-DW	11/17/2022	Drywall	Y N			
4	S4-DW	11/17/2022	Drywall	Y N			
5	S5-DW	11/17/2022	Drywall	Y N			
6	S6-SV	11/17/2022	Sheet Vinyl	Y N			
7	S7-SV	11/17/2022	Sheet Vinyl	Y N			
8	S8-SV	11/17/2022	Sheet Vinyl	Y N			
9	S9-CB	11/17/2022	Cove Base	Y N			
10	S10-CB	11/17/2022	Cove Base	Y N			
11	S11-CB	11/17/2022	Cove Base	Y N			
12	S12-I	11/17/2022	Insulation	Y N			
13	S13-I	11/17/2022	Insulation	Y N			
14	S14-I	11/17/2022	Insulation	Y N			
15	S15-FP	11/17/2022	Felt Paper	Y N			

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print)

Kyle Spencer

(Signature)

[Signature]

Gen

Relinquished by:

11-16-22

Date/Time:

Received by:

Diana Federico

Date/Time: 11/21/22

Relinquished by:

Diana Federico

Date/Time: 11/21/22

Received by:

[Signature]

Date/Time: 11/21/22

Relinquished by:

Date/Time:

Received by:

[Signature]

Date/Time:

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283003**

## Bulk Asbestos Analysis by Polarized Light Microscopy

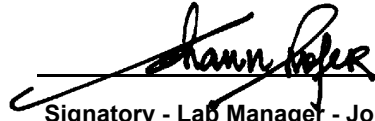
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	05016-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/05/2022
Collected:	11/17/2022	Date Reported:	12/05/2022
Project Name:	LAKEVIEW BLDG 2215	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283003-001 S1-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber 50% Gypsum Binder/Filler 50%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

\*\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283004**

## Bulk Asbestos Analysis by Polarized Light Microscopy

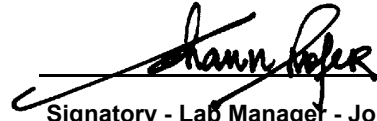
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/05/2022
Collected:	11/17/2022	Date Reported:	12/05/2022
Project Name:	LAKEVIEW BLDG 2403	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283004-001 S1-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber 50% Gypsum Binder/Filler 50%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.



**CHAIN OF CUSTODY**

EMC Labs, Inc.  
 9830 S. 51<sup>st</sup> St., Ste B-109  
 Phoenix, AZ 85044  
 (480) 940-5294 Fax (480) 893-1726

LAB#: 283004  
 TAT: 6-10 days  
 Rec'd: NOV 21 P.M.

COMPANY NAME: ECI Environmental

BILL TO: (If Different Location)

Address: PO Box 153  
Fox Island WA 98333

CONTACT: Kyle SpencerPhone/Fax: 2532792803

Email: \_\_\_\_\_

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [6-10 Days]\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2403**P.O. Number:** \_\_\_\_\_ **Project Number:** 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
<u>1</u>	<u>S1-FP</u>	<u>11/17/2022</u>	<u>Felt Paper</u>	<u>(Y) N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
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				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			

**SPECIAL INSTRUCTIONS:**Sample Collector: (Print) Kyle Spencer(Signature) [Signature]Relinquished by: 11-18-22

Date/Time: \_\_\_\_\_

Received by: Dianna FedericoDate/Time: 11/21/22Relinquished by: Dianna FedericoDate/Time: 11/21/22Received by: [Signature]Date/Time: 11/21/22

Relinquished by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0282998**

## Bulk Asbestos Analysis by Polarized Light Microscopy

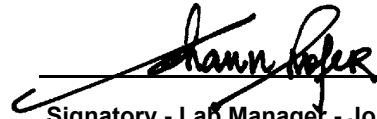
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2005	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0282998-001 S1-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber 45% Carbonates Gypsum Binder/Filler 55%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.



# EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283005**

## Bulk Asbestos Analysis by Polarized Light Microscopy

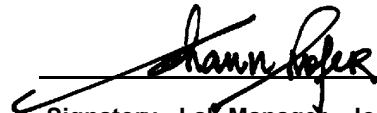
NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/05/2022
Collected:	11/17/2022	Date Reported:	12/05/2022
Project Name:	LAKEVIEW BLDG 2605	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283005-001 S1-WP		Window Putty/ Paint, White/ Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283005-002 S2-WP		Window Putty/ Paint, White/ Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283005-003 S3-WP		Window Putty/ Paint, White/ Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283005-004 S4-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber Gypsum Binder/Filler 50% 50%



Analyst - Kurt Kettler



Signatory - Lab Manager - Johann Hofer

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**\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.**

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9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283006**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2615	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283006-001 S1-TSI		TSI, White	No	None Detected	Cellulose Fiber <1% Carbonates Gypsum Quartz Binder/Filler 99%
0283006-002 S2-TSI		TSI, White	No	None Detected	Cellulose Fiber 15% Carbonates Gypsum Quartz Binder/Filler 85%
0283006-003 S3-TSI		TSI, White	No	None Detected	Cellulose Fiber 15% Carbonates Gypsum Quartz Binder/Filler 85%
0283006-004 S4-DW		LAYER 1 Drywall, White/ Brown/ Off White	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture/ Paint, White/ Off White	No	None Detected	Gypsum Quartz Mica Carbonates Binder/Filler 100%
0283006-005 S5-DW		Drywall, White/ Brown/ Off White Note: No Joint Compound or Texture Present in Sample	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%

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Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

**0283006**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2615	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283006-006 S6-DW		LAYER 1 Drywall, White/ Brown/ Off White	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Quartz Mica 88%
		LAYER 2 Texture/ Paint, White/ Off White	No	None Detected	Gypsum Quartz Mica Carbonates Binder/Filler 100%
0283006-007 S7-VT		LAYER 1 Vinyl Tile, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Clear/ Yellow	No	None Detected	Synthetic Fiber <1% Carbonates Quartz Binder/Filler 99%
		LAYER 3 Vinyl Tile, Lt. Blue	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 4 Mastic, Clear/ Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%

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Laboratory Report  
**0283006**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2615	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283006-008 S8-VT		LAYER 1 Vinyl Tile, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Clear/ Yellow	No	None Detected	Synthetic Fiber Carbonates Quartz Binder/Filler 1%
		LAYER 3 Vinyl Tile, Lt. Blue	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 4 Mastic, Clear/ Yellow	No	None Detected	Synthetic Fiber Carbonates Quartz Binder/Filler <1% 99%
0283006-009 S9-VT		LAYER 1 Vinyl Tile, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Clear/ Yellow	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 3 Vinyl Tile, Lt. Blue	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 4 Mastic, Clear/ Yellow	No	None Detected	Synthetic Fiber Carbonates Quartz Binder/Filler <1% 99%



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Laboratory Report  
**0283006**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2615	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0283006-010 S10-CB		LAYER 1 Cove Base, Dk. Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283006-011 S11-CB		LAYER 1 Cove Base, Dk. Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283006-012 S12-CB		LAYER 1 Cove Base, Dk. Brown	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0283006-013 S13-FP		Felt Paper, Black	No	None Detected	Cellulose Fiber 65%
					Carbonates Gypsum Binder/Filler 35%

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Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report  
**0283006**

## Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ECI ENVIRONMENTAL	Job# / P.O. #:	0506-11
Address:	P.O. BOX 153	Date Received:	11/21/2022
	FOX ISLAND WA 98333	Date Analyzed:	12/07/2022
Collected:	11/17/2022	Date Reported:	12/07/2022
Project Name:	LAKEVIEW BLDG 2615	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	KYLE SPENCER
		Collected By:	

Lab ID	Sample	Layer Name /	Asbestos	Asbestos Type	Non-Asbestos
Client ID	Location	Sample Description	Detected	(%)	Constituents



Analyst - Mark Steiner



Signatory - Lab Director - Kurt Kettler

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**CHAIN OF CUSTODY**

EMC Labs, Inc.  
9830 S. 51<sup>st</sup> St., Ste B-109  
Phoenix, AZ 85044  
(480) 940-5294 Fax (480) 893-1726

LAB#:

283006

TAT:

6-10 days

Rec'd:

NOV 21 P.M.

COMPANY NAME: **ECI Environmental**

BILL TO: (If Different Location)

Address:

PO Box 153  
Fox Island WA 98333

CONTACT:

Kyle Spencer

Phone/Fax:

2532792803

Email:

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ / Sample \$ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)****1. TURNAROUND TIME:** [6-10 Days]

\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

**4. Project Name:** Lakeview Building 2615

P.O. Number:

Project Number: 0506-11

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	S1-TSI	11/17/2022	Thermal System Insulation	(Y) N			
2	S2-TSI	11/17/2022	Thermal System Insulation	Y N			
3	S3-TSI	11/17/2022	Thermal System Insulation	Y N			
4	S4-DW	11/17/2022	Drywall	Y N			
5	S5-DW	11/17/2022	Drywall	Y N			
6	S6-DW	11/17/2022	Drywall	Y N			
7	S7-VT	11/17/2022	Vinyl Tile	Y N			
8	S8-VT	11/17/2022	Vinyl Tile	Y N			
9	S9-VT	11/17/2022	Vinyl Tile	Y N			
10	S10-CB	11/17/2022	Cove Base	Y N			
11	S11-CB	11/17/2022	Cove Base	Y N			
12	S12-CB	11/17/2022	Cove Base	Y N			
13	S13-FP	11/17/2022	Felt Paper	(Y) N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print)

Kyle Spencer

(Signature)

[Signature]

Relinquished by:

Kyle Spencer

Date/Time: 11-16-22

Received by: Diana Federico

Date/Time: 11/21/22

Relinquished by:

Diana Federico

Date/Time: 11/21/22

Received by: [Signature]

Date/Time: 11-21-22

Relinquished by:

Date/Time:

Received by:

Date/Time:

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

# Appendix D

## Appendix D: Project Documentation Sample Collection Requirements EPA / AHERA Certification

### Appendix D Project Documentation



**White Shield**  
Progressive Solutions. Traditional Values



CHC Training  
Environmental Compliance Certification Experts

www.chctraining.com  
303.412.6360  
855.60.CERTIFY

1775 W. 55th Avenue  
Denver, Colorado 80221  
United States of America

# CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

**KYLE SPENCER**

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training provided in accordance with the Model Accreditation Plan (MAP) (40 CFR Part 763, Subpart E, Appendix C) and AHERA of the Toxic Substances Control Act (TSCA) entitled:

**BUILDING INSPECTOR**

COURSE COMPLETION:

OCTOBER 5, 2022

EXAMINATION DATE:

OCTOBER 5, 2022

EXPIRATION DATE:

OCTOBER 5, 2023

COURSE HOURS:

4.0



Verify this Certificate

*Danaya N. Wilson*

CEO & Training Program Manager

Credential License ID:  
59666237



*Aaron Hix*

Instructor

CHC Training Certificate No.  
R22-1035-AI-O



Renew this Certificate

# Asbestos Survey Guidance

## Introduction

This document was developed to provide guidance on scope, structure, and content of an “Asbestos Survey.” It is intended for use by local area providers of asbestos surveys, abatement contractors, other regulatory agencies, and building owners. There are two parts to this guidance: 1) “Guidelines for an Asbestos Survey,” and 2) “Asbestos Survey Field Checklist.” The information contained in these two parts identifies what Puget Sound Clean Air Agency believes is necessary in an Asbestos Survey.

Agency Regulation III, Article 4.02(a), requires an “Asbestos Survey” before the renovation or demolition of a building. Puget Sound Clean Air Agency defines an “Asbestos Survey” as a “written report describing an inspection using the procedures contained in EPA Regulations (40 CFR 763.86)...” However, this EPA regulation addresses only sampling protocol with an emphasis on numbers of samples to be collected by an “Accredited Inspector” under different survey conditions, and a requirement for “random” sample collection.

This guidance is also intended to clarify when an “Asbestos Building Inspector” is required for a survey, destructive investigations, and minimal reporting requirements. The Checklist is a field document intended to assist AHERA building inspectors on the construction considerations of the building being surveyed, inspection scope, and sampling protocol.

## Guidelines

### When an Asbestos Building Inspector is Required

Asbestos Surveys for renovations and demolitions must be performed by an AHERA Building Inspector as defined under 40 CFR 763 except for surveys associated with the *renovation* of an owner-occupied, single-family residence. For the *renovation* of such residences, homeowners may perform their own asbestos surveys.

However, if an owner-occupied, single-family residence is to be *demolished*, an AHERA Building Inspector must be employed for the asbestos survey.

### Purpose of Survey

Asbestos surveys are very much project specific. It is important that an asbestos survey be used only for its intended purpose. For example, a limited survey conducted as part of a pre-purchase inspection is not likely to meet the requirements of 40 CFR 763 and thus would not suffice as an asbestos inspection for renovation or demolition. The purpose and limitations of any asbestos survey should be clearly identified.

### Field Procedures

- Determine what materials were required for use under the Uniform Building Code in effect at the time of construction and past renovations of the structure, if available.

### Field Procedures continued

- Review existing data including design drawings, as-built drawings, project specifications, and any existing survey and/or laboratory information, if available.
- Use equipment that will allow visual examination of all accessible spaces.
- Confirm with the owner or owner's representative the exact area under investigation, exact nature of demolition/renovation and identify all materials that will be disturbed or accessed.
- Determine whether the building will be totally or partially renovated and/or demolished.
- Determine and investigate each building's structural, mechanical, and roofing systems that are to be disturbed.
- Perform a comprehensive investigation of areas to identify suspect materials to be sampled and/or assumed to contain asbestos.
- Create a sampling plan based on suspect materials present and requirements of 40 CFR 763.86.
- Collect bulk samples of all suspect materials that will be disturbed and not assumed to be asbestos and submit them to a certified laboratory for analysis. (A "Sample Asbestos-Containing Material List" is included as a last page to the Guideline. Note that this is not a comprehensive list of all potential Asbestos Containing Materials.)
- Document where asbestos materials exist and record their exact location, condition and quantity. "Condition" shall include a physical assessment to determine whether or not each asbestos material is "friable" as defined in this Agency's Regulation III, Section 4.01.
- Also document all sampled materials found to be negative for asbestos, including original location, condition, and quantity.

### Destructive Investigation

Many asbestos containing materials are located in concealed areas such as wall cavities, below ground level, and other hidden spaces. The Agency expects destructive investigation, as necessary, to gain access to these hidden spaces and to inspect them for suspect materials. The following guidelines constitute reasonable criteria for locating concealed materials:

- Identify the different building systems which may involve concealed asbestos materials such as the heating/cooling system, domestic water lines, roof drainage lines, miscellaneous piping lines, underlying roofing, etc.
- Open hidden areas and inspect each system in at least three (3) locations for each area of construction.
- Focus the inspection on likely areas for suspect materials (i.e. where insulated pipe enters walls or ceilings, behind heating units, etc.).
- Examine additional areas if results of inspection are inconsistent.
- Clearly list all concealed areas which have not been inspected, and explain why they were not inspected. Reasons why may include: (1) records showing recent access to such spaces and sample results, (2) safety hazards, and (3) restrictions imposed by the property owner.
- For those asbestos surveys that include inaccessible concealed spaces, a qualified person

should be available during the project to address the potential of unidentified *suspect* materials becoming disturbed once work begins.

- AHERA Building Inspectors may discuss with the property owner the possible need to disconnect electrical power or other utilities during the destructive phase of the investigation. It may also be desirable for the property to be unoccupied.

### Survey Report Format and Content

The survey report should list the results of an asbestos survey in a manner to promote ease of comprehension. The survey report should also contain an introductory summary that briefly explains what will be found in the report. Documentation such as field data sheets and photographs should appear in appendices of the report.

### Background Information & Scope of Work:

- Date(s) of field inspection
- Date of report submittal
- Building address
- Building owner including address and contact person
- Description of area surveyed including any exclusions or limitations (be specific).
- Description of building status after survey, if known (Will the building be totally or partially renovated and/or demolished?)
- Name of report writer(s) and reviewer(s) including AHERA accreditation information

### Building Description:

- Building name, if any
- Type of building i.e. commercial, warehouse, retail, residential, etc.
- Special features of building
- Type of business
- Approximate age of structures and dates of past renovations
- Description of building systems such as structural system, mechanical system, roofing system, non-structural systems (not inherent to building), etc.

### Building Inspector/Firm Affiliation/ Laboratory Information:

- Name(s) of Building Inspector(s) including certification number, inspectors signature and expiration date
- Inspector firm information including name, address, and phone number
- Laboratory name and accreditation
- Special instructions regarding type of analysis requested such as PLM, point counting, TEM



### Survey Methodology:

- Describe the inspection procedure being used, including the scope of the survey. The inspection must be in accordance with the sampling protocol in 40 CFR 763.86, as required by Puget Sound Clean Air Agency's Regulation III, Article 4.
- Inventory the locations of homogeneous areas where samples are to be collected
- Describe the sampling methods employed
- If hidden or inaccessible areas are to be disturbed or are likely to be disturbed, provide a detailed description of the procedure used to find hidden suspect materials. (For example, if asbestos pipe insulation is suspected in a wall cavity, describe by location, where wall was opened for examination.) The Agency recommends that each building and non-structural (not inherent to building) system suspected of having asbestos materials be breached and sampled at a minimum of three locations.

### Asbestos Identification Process:

- Prepare a sample and suspect asbestos material location plan
- List all materials sampled and tested, including test results and date(s) collected
- List all suspect materials assumed to contain asbestos; be specific in terms of quantity and location of materials
- List whether homogeneous areas identified are surfacing material, thermal system installation, or miscellaneous material and indicate amount of suspect materials sampled; be specific
- Describe exact location where each bulk sample is collected and assessment made of friability including reasons for assessment.

### Notice to Demolition/Renovation Contractors:

- Highlight in the inspection report any concealed areas that were not surveyed and that may contain undiscovered asbestos containing materials.
- Clearly list all hidden areas and list all potential asbestos containing materials that may be found.

### Procedure for Communicating Survey Findings to Affected Parties

The AHERA Building Inspector should assist the property owner in communicating both verbally and in writing the survey findings (copy of survey report) to persons who may come in contact with any identified or suspect asbestos containing materials. Such persons may include contractors, subcontractors, building occupants/guests/visitors, custodial and maintenance staffs, occupants of neighboring buildings, etc.

### Sample Asbestos-Containing Material List

- Window Glazing
- Stucco
- Cement Pipes
- Cement Board/Transite
- Duct Tape/Paper
- Furnace Insulation
- Vinyl sheet Flooring/Mastic
- Vinyl Floor Tile/Mastic
- Poured Flooring
- Pipe Insulation/Fittings
- Plaster/wall Joints
- Textured Paints/Coatings
- Ceiling Tiles/Panels/Mastic
- Spray-applied Insulation
- Blown-in Insulation
- Fireproofing
- Sink Insulation
- Packing Materials
- High Temperature Gaskets
- Lab Hoods/Table Tops
- Fire Blankets
- Fire Curtains/Hose
- Sink Insulation
- Elevator Brake Shoes
- Asphalt Flooring
- Paper on backside of Fiberglass Insulation
- Laboratory Fume Hoods
- Paper Fire Box in Walls
- Fire Doors
- HVAC Duct Insulation
- Boiler/Tank Insulation
- Breaching Insulation
- Ductwork Flexible Connections
- Construction Mastics
- Acoustical Ceiling Texture (“popcorn”)
- Electrical Panel Partitions
- Electrical Cloth
- Electrical Wiring Insulation
- Chalkboards
- Roofing Shingles
- Built-up Roofing
- Base Flashing
- Rolled Roofing
- Caulking/Putties
- Incandescent Light Fixture Backing
- Joint Compound/Wallboard
- Brick Mortar
- Vinyl Wall Coverings
- Vapor Barrier
- Cement Roofing Shingles
- Gray Roofing Paint
- Nicolet (white) Roofing paper
- Sub-flooring Slip Sheet
- Mudded Pipe Elbow Insulation

**Note:** This list does not include every product that may contain asbestos. It is intended as a general guide to show which types of materials may contain asbestos.

## Asbestos Survey Requirements

All commercial buildings regardless of construction date, and residential buildings constructed before Jan. 1, 2004, must have an asbestos survey conducted by an accredited inspector prior to any demolition or renovation activities.

A copy of the asbestos survey report must be on-site during all renovation or demolition activities, and must be provided to DEQ upon request.

Owner-occupants of a single unit private residence performing a renovation inside their home are exempt from the asbestos survey rule. However, DEQ recommends owner occupants have an asbestos survey performed or take samples of [suspect materials](#) and send the samples to a lab for analysis prior to renovation projects. Owner-occupants are required to follow all asbestos packaging, labeling and disposal requirements, and lab analysis is the only way to identify if asbestos is present in materials. The owner-occupant exemption does not apply if the residence is going to be demolished.

### Demolition and renovation

Demolition is defined as wrecking or removing a load-supporting structural feature of a facility together with related handling operations or the intentional burning of a facility.

Renovation is defined as altering one or more facility components that does not involve removing load-supporting structural features. Renovation includes the replacing, stripping, or repairing of facility components, such as mechanical ventilation systems, pipes, ceilings, walls, flooring and insulating materials.

### Who can perform the survey and generate the asbestos survey report?

Only an accredited asbestos inspector may perform the asbestos survey and generate an asbestos survey report.

### What does the survey involve?

DEQ requires at least one bulk sample of each homogeneous material suspected to contain asbestos to be collected and analyzed at a laboratory before any demolition or renovation activity. For sprayed or troweled on surfacing materials, at least three random bulk samples for each homogeneous area must be collected.

Starting Jan. 1, 2021, each asbestos bulk sample must be analyzed by a laboratory that participates in a nationally recognized accreditation or testing program. At that time, DEQ will maintain a public list of accepted laboratories on its website.

When complete demolition or extensive renovation is planned, an asbestos survey of the entire facility is required. When partial renovation is planned, such as a kitchen remodel, a survey is required for that area of the structure only. Alternatively, material can be presumed to contain asbestos, in which case it must be treated, removed, handled, managed, transported and disposed of as asbestos-containing material.

### Asbestos survey reports

Asbestos survey reports must now meet standard requirements. This requirement ensures all asbestos surveys evaluate and report consistent information.

#### An asbestos survey report must include all of the following:

- Dates the asbestos survey was performed
- A copy of the accredited inspector(s) certificate and phone number(s)
- The project site address and location where the survey was performed
- The facility owner or operator's name and phone
- Description of the facility and area surveyed, including past and current use, area square footage, approximate construction date and number of floors
- The purpose of the asbestos survey



State of Oregon  
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Environmental  
Quality

#### Asbestos Program

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Portland, OR 97232  
Phone: 503-229-5696  
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[www.oregon.gov/DEQ](http://www.oregon.gov/DEQ)

- Description of any limitation of the asbestos survey
- A table listing all of the materials sampled and identified as asbestos-containing or presumed asbestos-containing including the percent asbestos and type of asbestos, description of the material color, texture and pattern, the location of the material, description of the material condition as in good condition or in poor condition, identification of the material as friable or nonfriable and the approximate quantity of the material;
- A recommended response action
- A complete copy of the laboratory report including the laboratory name, address and phone number, unique sample analysis identification number, bulk sample analysis results, name of the analyst and the completed chain of custody for the samples.

## Additional information

Visit <https://go.usa.gov/xdFAq>

Find all DEQ's asbestos requirements in [Oregon Administrative Rules 340, Division 248](#).

An asbestos survey may not be required if the project meets certain conditions. If you have questions or need technical assistance, contact DEQ asbestos program staff listed below.

If asbestos-containing materials are disturbed or mishandled, the public and the environment may be exposed to asbestos fibers. Violations of asbestos rules and statutes may subject the property owner or operator or the contractor to civil penalties.

## Alternative formats

DEQ can provide documents in an alternate format or in a language other than English upon request. Call DEQ at 800-452-4011 or email [deqinfo@deq.state.or.us](mailto:deqinfo@deq.state.or.us).

## Asbestos Program Contacts

Office	Address	Phone	Counties
<b>Portland</b>	700 NE Multnomah St. Suite 600 Portland, OR 97232	503-229-5982 or 800-452-4011	Clackamas, Clatsop, Columbia, Multnomah, Tillamook, Washington
<b>Salem</b>	4026 Fairview Industrial Dr. Salem, OR 97801	503-378-5086 or 800-349-7677	Benton, Lincoln, Linn, Marion, Polk, Yamhill
<b>Medford</b>	221 Steward Ave. Ste. 201 Medford, OR 97501	541-776-6107 or 877-823-3216	Jackson, Josephine, Eastern Douglas County
<b>Coos Bay</b>	381 N Second St. Coos Bay, OR 97420	541-269-2721, ext. 222	Coos, Curry, Western Douglas County
<b>Bend</b>	475 NE Bellevue Dr. Suite 110 Bend, OR 97701	541-633-2019 or 866-863-6668	Crook, Deschutes, Harney, Hood River, Jefferson, Klamath, Lake, Sherman, Wasco
<b>Pendleton</b>	800 SE Emigrant Ave. Suite 330 Pendleton, OR 97801	541-278-4626 or 800-304-3513	Baker, Gilliam, Grant, Malheur, Morrow, Umatilla, Union, Wallowa, Wheeler
<b>Lane Regional Air Protection Agency (LRAPA)</b>	1010 Main St. Springfield, OR 97477	541-736-1056	Lane

## Materials that may contain asbestos

The following is a list of commonly found construction and demolition materials that may contain asbestos. This is not a complete list of all asbestos-containing materials.

### **Friable Materials (materials that easily crumble):**

- Acoustical ceiling tiles
- Air-duct cement, tape, and insulation (white paper on seams and or complete wrap)
- Block insulation, Magnesia (MAG)
- Building insulation – Vermiculite in walls, attics- Not including fiberglass, Cellulose, Rockwool
- Adhesives/ Mastics (If dry and brittle)
- Caulks and putties (If dry and brittle)
- Fire doors & Walls
- Flashing cement
- Furnace cement
- Gaskets (furnaces, boilers, woodstoves)
- Interior wall and ceiling textures, skim and brown coats
- Joint compound & taping mud compound
- Nicolite™ roof paper
- Patch compounds
- Petroleum bound built up, felt layered, rolled, and patch roofing (non pliable, brittle)
- Plaster
- Sheet vinyl flooring
- 9"x9" floor tile and 12"x12" floor tile that have been shattered, fragmented, and broken into many pieces
- Mastics (if dry and brittle)
- Silver roofing paint
- Sink undercoating (Sprayed on)
- Spray applied insulation soundproofing and fireproofing
- Spray applied textured or acoustical ceilings (popcorn texture, orange peel, trowel)
- Stucco
- Tank, and boiler insulation (White in color with chalk like appearance or may look like corrugated cardboard and is often called air-cell)-Not including fiberglass
- Thermal system pipe insulation (White in color with chalk like appearance or may look like corrugated cardboard and is often called air-cell)-Not including fiberglass
- Vapor barrier products (if dry and brittle)
- Wallboards
- Window glazing (if dry and brittle)

## **Nonfriable Materials (materials that don't easily crumble):**

Petroleum-bound nonfriable materials are generally pliable and will not be rendered friable unless brittle. Other types of nonfriable materials can be rendered friable by activities such as sanding, grinding, breaking, fragmenting, pulverizing, shattering, dozing, or if the nonfriable material is not handled appropriately.

- Adhesives/ Mastics (pliable)
- Cement asbestos board, known as CAB / Transite in whole pieces that have not been shattered or fragmented
- Cement siding and roofing products, know as CAB / Transite in whole pieces that have not been shattered or fragmented
- Cement water pipe (Not shattered or fragmented, whole pieces)
- Petroleum bound built up, rolled, and patch roofing (pliable)
- 9"x9" floor tile, 12"x12" floor tile ( Whole pieces not shattered, fragmented, or broken pieces)
- Mastics (pliable, not dry nor brittle)
- Window glazing (pliable)

## **Alternative formats**

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in Oregon at 1-800-452-4011, ext. 5696; or email [deqinfo@deq.state.or.us](mailto:deqinfo@deq.state.or.us).