

## **Asbestos & Lead Based Paint Assessment**

City of Spartanburg 342 Allen Street Spartanburg, South Carolina 29301

## Prepared for:

The City of Spartanburg 440 South Church St., Suite B Spartanburg, South Carolina 29306

## Prepared by:

Apex Environmental Management, Inc. 7 Winchester Court Mauldin, South Carolina 29662

Project Number: 0124-01

January 31, 2024





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www.apex-ehs.com

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### **Apex Project Number 0124-01**

January 31, 2024

Mr. Martin Livingston
City of Spartanburg
440 South Church Street, Suite B
Spartanburg, SC 29306

Reference: Asbestos and Lead-Based Paint Assessment Services

342 Allen Street

Spartanburg, South Carolina 29301

Dear Mr. Livingston:

Apex Environmental Management, Inc. (Apex) is pleased to provide the results of our assessment services for the referenced property.

This report and the associated attachments summarize our evaluation of the conditions observed at the project site. The findings presented by Apex are based upon sampling performed in the subject building. There is a chance that undetected ACM may exist in the building between walls or in other areas that would only be exposed during demolition or structural renovations. Should material be discovered that could potentially contain asbestos during the demolition process, additional samples of the material should be collected by a licensed asbestos inspector and submitted to an accredited laboratory for analytical interpretation. Our recommendations are based on the guidelines presented in EPA and/or OSHA regulations.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for abatement. Quantities are estimates and contractors must verify amounts prior to bidding or removal. If you are planning an abatement project, please contact Apex to discuss the requirements. Use of this document without the express written consent of Apex is at the sole risk of the user and or/abatement contractor.

The conclusions and/or recommendations contained in this report are based on our understanding of the applicable standards at the time this report was prepared. No warranty, expressed or implied, is made. If you have any questions please feel free to contact us at (864) 404-3210.

Respectfully submitted,

APEX ENVIRONMENTAL MANAGEMENT, INC.

Ted Shultz Project Manager

Appendices

Rebecca Shultz CIH, CSP

President

### ASBESTOS AND LEAD BASED PAINT ASSESSMENT

## CITY OF SPARTANBURG 342 ALLEN STREET SPARTANBURG, SOUTH CAROLINA 29303

### **APEX PROJECT NO. 0124-01**

## **TABLE OF CONTENTS**

## **SECTION**

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Ш	Laboratory Analytical Results & Chain of Custody
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## **SECTION I**

**Asbestos & Lead Evaluation Report** 

## ASBESTOS EVALUATION REPORT APEX PROJECT NUMBER: 0122-17

Date: 1/31/2024 Page Number: 1 of 4

Number:

Phone

Number:

Client: City of Spartanburg Client Contact: Mr. Martin Livingston

Client 440 South Church Street Client Phone

Address: Suite B

Spartanburg, SC 29306

Project: Asbestos Evaluation and

**Lead Based Paint** 

Assessment

Property 342 Allen Street

Address: Spartanburg, SC 29301

Assessor: Ted Shultz Date of 1/11/2024
Assessment:

Company: Apex Environmental

Management
7 Winchester Court

Mauldin, SC 29662

Purpose of Demolition Age of Approximately 87 years
Assessment: Structure:

Building Residential Number of 1

Type: Stories:

Foundation: Brick & CMU Crawlspace Approximate 900 SF

Square Footage

#### EXTERIOR BUILDING MATERIALS INTERIOR BUILDING MATERIALS

Pitched roof with black shingles & felt.
 Multiple types & layers of vinyl flooring with &

Wood siding.

Vinyl windows with no glazing.

• Tar on 1 chimney – assumed positive-ACM.

without mastic.

(864) 596-2911

(864) 404-3210

 Drywall with joint compound on walls and ceiling throughout.

Popcorn ceiling texture in rear addition.

City of Spartanburg 342 Allen Street Apex Project No. 0124-01 January 31, 2024

#### **SCOPE OF THE SURVEY**

The objectives of the asbestos and lead assessment included the following:

- Identification of suspect asbestos-containing material (ACM) and lead based paints (LBP) in readily observable locations. Limited demolition of building finishes was conducted.
- Asbestos survey with sample collection by a South Carolina accredited inspector.
- Suspect ACM analysis by polarized light microscopy (PLM) utilizing Scientific Analytical Institute (SAI) as an NVLAP certified laboratory, their accreditation number is 200664-0.
- Transmission electron microscopy (TEM) analysis of non-friable organically bound materials suspected to contain asbestos and testing negatively by PLM analysis.
- Lead inspection by a lead inspector certified by the Environmental Protection Agency and licensed to conduct LBP surveys in South Carolina.
- In situ analysis of suspected lead based paints by X-ray fluorescence (XRF).
- Presenting the results in a report identifying confirmed ACMs and LBPs.

#### **METHODS**

### Asbestos Containing Materials

In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages. Twenty three (23) bulk samples were collected during the survey and submitted to EMSL in Pineville, North Carolina for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-82-020, Dec. 1982). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 200664-0. EPA regulations require that multiple samples of each homogeneous material be collected for laboratory analysis. Thirty-seven (37) samples were analyzed due to layering by PLM and positive stop methods. In accordance with South Carolina Regulation 61-86.1, non-friable organically bound materials that are reported to be non-asbestos containing by PLM analysis must also be analyzed by Transmission Electron Microscopy (TEM). Five (5) samples were analyzed using TEM.

#### Lead-Based Paint

Lead painted surfaces were analyzed in place using X-ray fluorescence. Painted surfaces were selected based on color of topcoat, underlying layers and substrate on which it was painted.

#### RESULTS

#### Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. It should be noted that the wooden window glazing was identified to contain less than 1% asbestos and OSHA Construction Industry Asbestos Standards (29 CFR 1926.1101) will apply if those materials are disturbed during renovation or demolition activities. Provided below is a general discussion of the asbestos containing materials identified in the residence. A specific *PLM and TEM Data Table* is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

City of Spartanburg 342 Allen Street Apex Project No. 0124-01 January 31, 2024

No asbestos containing materials were identified.

#### Lead Based Paint

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms per cubic meter (30  $\mu$ g/m³) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50  $\mu$ g/m³) for employees.

Currently, HUD and the EPA define LBP as paint containing in excess of, or equal to, 1.0 mg/cm<sup>2</sup>. XRF LBP Data Sheets providing XRF results for testing combinations can be found in the Appendices at the conclusion of this report.

Several surfaces in the building tested positive for lead in excess of the regulatory definition:

#### Exterior

- Grey metal porch ceiling header
- Blue metal window frame

#### **Interior**

- White wood door frame
- White wood wall

#### RECOMMENDATIONS AND DISCUSSION

#### Asbestos Containing Materials

No asbestos containing materials were identified, Apex has no further recommendations.

#### Lead-Based Paint

Changes to state and federal regulations have changed the disposal options for LBP waste and LBP residue. LBP waste is defined as material such as wood, brick, metal, etc. that is coated with LBP. LBP residue is defined as residue that is generated from the removal (scraped, chipped, sandblasted, chemical means, etc.) of LBP from a structure. The regulations allow LBP waste from residential and commercial structures to be disposed of in Class 2 (construction and demolition debris) and Class 3 (municipal solid waste or industrial) landfills in South Carolina. The management of LBP residue is based on the source and lead concentration characterized by Toxic Characteristic Leaching Procedures (TCLP) to determine if the waste is classified as hazardous or non-hazardous. LBP residues that have TCLP sample results less than 5 milligrams per liter (mg/L) lead may be disposed of in a Class 3 landfill and is considered to be non-hazardous. LBP residues that have TCLP sample results equal to or greater than 5 mg/L lead should be disposed of in a Subtitle C landfill and is considered to be hazardous. However, the landfills should be contacted to determine their specific disposal requirements.

Occupational Safety and Health Administration Lead Regulations apply to actions initiated on lead containing materials. This regulation applies to lead concentrations greater than the analytical limit of detection. This regulation sets exposure levels on airborne lead and does not reference the percent lead in paint. Therefore, initial personal air monitoring should be conducted on workers performing work on surfaces which have a lead concentration of 0.1 mg/

City of Spartanburg 342 Allen Street Apex Project No. 0124-01 January 31, 2024

cm<sup>2</sup> or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter ( $\mu g/m^3$ ) is established, personal air monitoring may be terminated. The full OSHA lead standard should be referenced for compliance.

A copy of this report must be submitted to SCDHEC at least ten (10) working days prior to demolition when applying for a demolition permit.

# SECTION II Asbestos & LBP Data Tables

## ASBESTOS SURVEY FIELD DATA SHEET PLM & TEM ANALYSIS

Project Name: COS 342 Allen Street ACM/LBP Sampled By: Ted Shultz

Project Location: 342 Allen Street, Spartanburg, South Carolina 29301 Project Manager: Ted Shultz

Project Number: 0122-17 Date: 1/31/2024

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	1 Chingle 1 Felt	PLM - NAD	Non-Friable	Good	1 250 85
3	Kooi	1 Shingle, 1 Felt	TEM - NAD	Non-Friable	Good	1,250 SF
4		Woodgrain Self-Stick Vinyl	PLM - NAD			
5	Front Living Room	Flooring		Non-Friable	Good	150 SF
6			TEM - NAD			
7 8	Kitchen, Side Room and	2 Layers Vinyl Flooring 1	PLM - NAD	Non-Friable	Good	300 SF
9	Bathroom	Woodgrain, 1 Speckled w/Mastic	TEM - NAD			
10						
11						
12						
13	Rear Addition	Ceiling Texture	PLM - NAD	Friable	Good	300 SF
14						
15						
16						
17						
18						
19	Throughout Walls and					
20	Ceilings	Drywall with Joint Compound	PLM - NAD	Friable	Good	3,500 SF
21	2090					
22						
23						
			·			

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

**Bold = Positive For Asbestos** 

SF = Square Feet

Chry = Chrysotile

## ASBESTOS SURVEY FIELD DATA SHEET PLM & TEM ANALYSIS

Project Name: COS 342 Allen Street ACM/LBP Sampled By: Ted Shultz

Project Location: 342 Allen Street, Spartanburg, South Carolina 29301 Project Manager: Ted Shultz

Project Number: 0122-17 Date: 1/31/2024

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	1 Chingle 1 Felt	PLM - NAD	Non-Friable	Good	1 250 85
3	Kooi	1 Shingle, 1 Felt	TEM - NAD	Non-Friable	Good	1,250 SF
4		Woodgrain Self-Stick Vinyl	PLM - NAD			
5	Front Living Room	Flooring		Non-Friable	Good	150 SF
6			TEM - NAD			
7 8	Kitchen, Side Room and	2 Layers Vinyl Flooring 1	PLM - NAD	Non-Friable	Good	300 SF
9	Bathroom	Woodgrain, 1 Speckled w/Mastic	TEM - NAD			
10						
11						
12						
13	Rear Addition	Ceiling Texture	PLM - NAD	Friable	Good	300 SF
14						
15						
16						
17						
18						
19	Throughout Walls and					
20	Ceilings	Drywall with Joint Compound	PLM - NAD	Friable	Good	3,500 SF
21	2090					
22						
23						
			·			

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

**Bold = Positive For Asbestos** 

SF = Square Feet

Chry = Chrysotile

## FIELD DATA SHEET XRF LBP ANALYSIS

Project Name: COS 342 Allen Street ACM/LBP Sampled By: Tom Oliver

Project Location: 342 Allen Street, Spartanburg, SC 29303 Project Manager: Ted Shultz

 Project Number:
 0124-01
 Date:
 1/16/2024

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m³)
1		Calibration			1.18
2		Calibration			1.16
3		Calibration			1.17
4	Exterior	Door	White	Metal	0.00
5	Exterior	Door frame	Gray	Metal	0.00
6	Exterior	Siding	Yellow	FFV	0.00
7	Exterior	Porch ceiling	Blue	FFV	0.01
8	Exterior	Porch ceiling header	Gray	FFM	4.13
9	Exterior	Window frame	Blue	Wood	0.01
10	Exterior	Soffit	Blue	FFV	0.03
11	Exterior	Fascia	Blue	FFM	0.15
12	Exterior	Foundation	Blue	CMU block	0.00
13	Exterior	Window	White	Metal	0.00
14	Exterior	Window frame	Blue	FFM	>5.00
15	Exterior	Foundation	Blue	Brick	0.03
16	Interior	Wall	Blue	Drywall	0.01
17	Interior	Ceiling	White	Drywall	0.00
18	Interior	Window frame	White	Wood	0.00
19	Interior	Window sill	White	Wood	0.00
20	Interior	Base board	White	Wood	0.53
21	Interior	Crown molding	White	Wood	0.00
22	Interior	Door frame	White	Wood	1.47
23	Interior	Cabinets	Blue	Wood	0.00
24	Interior	Counter top	Black	Wood	0.00
25	Interior	Bath tub	White	Metal	0.00

## FIELD DATA SHEET XRF LBP ANALYSIS

Project Name: COS 342 Allen Street ACM/LBP Sampled By: Tom Oliver

Project Location: 342 Allen Street, Spartanburg, SC 29303 Project Manager: Ted Shultz

Project Number: 0124-01 Date: 1/16/2024

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m³)
26	Interior	Door	White	Wood	0.00
27	Interior	Ceiling	White	Wood	0.00
28	Interior	Wall	White	Wood	>5.00
29	Interior	Floor	Brown	Wood	0.00
30		Calibration			1.15
31		Calibration			1.09
32		Calibration			1.11

**Bold = LBP** FFV = Factory Finished Vinyl Over Component

FFM = Factory Finished Metal Over Component

## **SECTION III**

**Laboratory Analytical Results & Chain of Custody** 



EMSL Order: 412400400 Customer ID: AXEM25

Fax:

**Customer PO:** 

Project ID: City of Spartanburg

Attention: Ted Shultz Phone: (803) 348-4921

Apex Environmental Management

7 Winchester Court Received Date: 01/12/2024 9:15 AM

Mauldin, SC 29662 Analysis Date: 01/12/2024 Collected Date: 01/11/2024

Project: COS ACM 342 Allen St (City of Spartanburg)

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
1-Shingle	1 Shingle, 1 Felt	Gray/Black Fibrous Heterogeneous	12% Glass	5% Quartz 15% Ca Carbonate 68% Non-fibrous (Other)	None Detected
1-Felt	1 Shingle, 1 Felt	Black Fibrous	65% Cellulose <1% Glass	35% Non-fibrous (Other)	None Detected
412400400-0001A		Homogeneous			
2-Shingle	1 Shingle, 1 Felt	Gray/Black Fibrous	15% Glass	5% Quartz 20% Ca Carbonate	None Detected
412400400-0002	1 Shingle, 1 Felt	Heterogeneous Black	85% Cellulose	60% Non-fibrous (Other) 15% Non-fibrous (Other)	None Detected
2-Felt 412400400-0002A	i Sillingle, i Felt	Fibrous Homogeneous	65% Cellulose	13% Noti-fibrous (Other)	None Detected
412400400-0003	Woodgrain Vinyl Flr Self-Stick	Brown Non-Fibrous Homogeneous	8% Synthetic	30% Ca Carbonate 62% Non-fibrous (Other)	None Detected
5	Woodgrain Vinyl Flr Self-Stick	Brown/Black Non-Fibrous	15% Cellulose	25% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412400400-0004		Heterogeneous			
7-Gray Vinyl Flooring	2 Layer - Vinyl Flr Woodgrain & Speckled	Gray Non-Fibrous	15% Glass	20% Ca Carbonate 65% Non-fibrous (Other)	None Detected
7-Tan Vinyl Flooring 412400400-0005A	2 Layer - Vinyl Flr Woodgrain & Speckled	Tan Non-Fibrous Homogeneous	8% Glass	20% Ca Carbonate 72% Non-fibrous (Other)	None Detected
8-Gray Vinyl Flooring	2 Layer - Vinyl Flr Woodgrain & Speckled	Gray/White Non-Fibrous Heterogeneous	15% Glass	18% Ca Carbonate 67% Non-fibrous (Other)	None Detected
8-Tan Vinyl Flooring	2 Layer - Vinyl Flr Woodgrain & Speckled	Tan/White Non-Fibrous Heterogeneous	8% Glass	18% Ca Carbonate 74% Non-fibrous (Other)	None Detected
10	Ceiling Texture	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
11	Ceiling Texture	White Non-Fibrous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
412400400-0008		Homogeneous			
12 412400400-0009	Ceiling Texture	White Non-Fibrous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
13	Ceiling Texture	Homogeneous  White Non-Fibrous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
412400400-0010		Homogeneous		.5.2	
14	Ceiling Texture	White Non-Fibrous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
<u>412400400-0011</u> 15	Ceiling Texture	Heterogeneous White Non-Fibrous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
412400400-0012		Heterogeneous		40% INOTHIDIOUS (Other)	

Initial report from: 01/12/2024 13:39:19



EMSL Order: 412400400 Customer ID: AXEM25

**Customer PO:** 

Project ID: City of Spartanburg

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
16 412400400-0013	Ceiling Texture	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
17-Tape	Drywall & JC	Yellow Fibrous	90% Glass	10% Non-fibrous (Other)	None Detected
412400400-0014		Homogeneous			
17-Joint Compound	Drywall & JC	White Non-Fibrous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
412400400-0014A		Homogeneous			
17-Drywall	Drywall & JC	Gray Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
412400400-0014B	Dravell 9 IC	Homogeneous	00% Class	100/ Non fibrous (Other)	None Detected
18-Tape 412400400-0015	Drywall & JC	Yellow Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
18-Joint Compound	Drywall & JC	White		80% Ca Carbonate	None Detected
412400400-0015A	21,114 4.00	Non-Fibrous Homogeneous		20% Non-fibrous (Other)	
18-Drywall	Drywall & JC	Gray Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
412400400-0015B		Homogeneous			
19-Tape	Drywall & JC	Yellow Fibrous	90% Glass	10% Non-fibrous (Other)	None Detected
412400400-0016		Homogeneous			
19-Joint Compound	Drywall & JC	White Non-Fibrous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
412400400-0016A 19-Drywall	Drywall & JC	Homogeneous  Gray  Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
412400400-0016B		Homogeneous			
20-Tape	Drywall & JC	Yellow Fibrous	90% Glass	10% Non-fibrous (Other)	None Detected
412400400-0017		Homogeneous			
20-Joint Compound	Drywall & JC	White Non-Fibrous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
412400400-0017A		Homogeneous			
20-Drywall 412400400-0017B	Drywall & JC	Gray Non-Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected
21-Tape	Drywall & JC	Homogeneous Yellow	90% Glass	8% Ca Carbonate	None Detected
412400400-0018		Fibrous Homogeneous		2% Non-fibrous (Other)	
21-Joint Compound	Drywall & JC	White Non-Fibrous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
412400400-0018A		Homogeneous		,	
21-Drywall	Drywall & JC	Tan/White Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
412400400-0018B		Heterogeneous			
22-Tape	Drywall & JC	Yellow Fibrous	90% Glass	5% Ca Carbonate 5% Non-fibrous (Other)	None Detected
412400400-0019  No joint compound present.		Homogeneous			
22-Drywall	Drywall & JC	Tan/White Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
412400400-0019A		Heterogeneous			

Initial report from: 01/12/2024 13:39:19



**EMSL Order:** 412400400 **Customer ID:** AXEM25

**Customer PO:** 

Project ID: City of Spartanburg

### Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

		Non-Asbestos			<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
23-Tape	Drywall & JC	Yellow Fibrous	95% Glass	3% Ca Carbonate 2% Non-fibrous (Other)	None Detected
412400400-0020		Homogeneous			
23-Joint Compound	Drywall & JC	White		80% Ca Carbonate	None Detected
•		Non-Fibrous		20% Non-fibrous (Other)	
412400400-0020A		Homogeneous			
23-Drywall	Drywall & JC	Tan/White	8% Cellulose	92% Non-fibrous (Other)	None Detected
•		Fibrous			
412400400-0020B		Heterogeneous			

Analyst(s)

Jordan Simpson (16) Matthew Schaefer (21) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This 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. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/12/2024 13:39:19



EMSL Order: 412400400 Customer ID: AXEM25

**Customer PO:** 

Project ID: City of Spartanburg

Attention: Ted Shultz

Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Project: COS ACM 342 Allen St (City of Spartanburg)

Phone: (803) 348-4921

Fax:

Received Date: 01/12/2024 9:15 AM

**Analysis Date:** 01/15/2024 Collected Date: 01/11/2024

## Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
3-Shingle 412400400-0021	1 Shingle, 1 Felt	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412400400-0022	1 Shingle, 1 Felt	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6 412400400-0023	Woodgrain Vinyl Flr Self-Stick	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9-Gray Vinyl Flooring 412400400-0024	2 Layer - Vinyl Flr Woodgrain & Speckled	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9-Tan Vinyl Flooring 412400400-0025	2 Layer - Vinyl Flr Woodgrain & Speckled	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)	
Sarah Breneman (5)	

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or < 1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/15/2024 15:05:48

EMSL ANALYTICAL, INC.

## Asbestos Bulk Building Materials - Chain of Custody 10801 Southern Loop Blvd

LIVIUL MIGIYUCAI, IIIC.

EMSL Order Number / Lab Use Only

412400400

Pineville, NC 28134 PHONE: (704) 525-2205 EMAIL: charlottelab@EMSL.com

	Customer ID:					Billi	ng ID:						
Customer Information	Company Name:	Apex Environm	nental Mana	gement		<u>و</u> (۲۵۰	npany Nam	e: Ape:	x Envir	ronmental N	lanage	ment	
erm.	Contact Name:	Ted Shultz				Billing Information	ng Contact:	Reb	ecca S	Shultz			
r Inf	Street Address:	7 Winchester C	Court			Stre	et Address	: 7 Wi	nches	ter Court			
ome		Mauldin	SC	29662 Country	" US	E City	, State, Zip	. Mau	ldin	SC	)	Country	US
Sust	Phone:	864-404-3210							404-32	210			·
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EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

OrderID: 412400400 EMSL ANALYTICAL, INC.

EMSL Analytical, Inc. Asbestos Bulk Building Materials - Chain of Custody 10801 Southern Loop Blvd EMSL Order Number / Lab Use Only

> Pineville, NC 28134 400 PHONE: (704) 525-2205 EMAIL: charlottelab@EMSL.com

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EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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**SECTION IV** 

Photographic Log



Photo 1 – Front elevation 342 Allen Street in Spartanburg, South Carolina 29303



Photo 2 – Rear elevation.

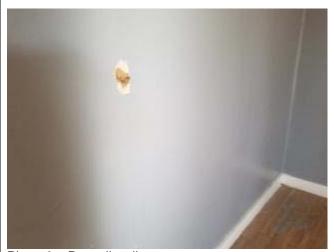


Photo 3 – Drywall walls.



Photo 4 - Drywall walls.



Photo 5 – Multi-layers of vinyl flooring.



Photo 6 – Wood flooring and vinyl planks.

## **SECTION V**

**SC DHEC Asbestos Inspector License** 

# SCDHEC ISSUED Asbestos ID Card

## Tedman K Shultz



AIRSAMPLER AS-00355 CONSULTBI BI-00971

Expiration Date: 02/16/24 01/10/24