



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

City of Spartanburg  
319 Caudler Avenue  
Spartanburg, South Carolina 29306

### ***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: 0120-17

August 12, 2020





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## SERVICES

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Hazard  
Communication

Apex Project Number 0120-17

August 12, 2020

Mr. Jeff Tillerson  
City of Spartanburg  
440 South Church Street, Suite B  
Spartanburg, SC 29306

Reference: Asbestos and Lead-Based Paint Assessment Services  
319 Caulder Avenue  
Spartanburg, South Carolina 29306

Dear Mr. Tillerson:

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.**

Tom Oliver  
Vice President

Appendices

**ASBESTOS AND LEAD BASED PAINT ASSESSMENT**

**CITY OF SPARTANBURG  
319 CAULDER AVENUE  
SPARTANBURG, SOUTH CAROLINA 29306**

**APEX PROJECT NO. 0120-17**

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**SECTION I**

**Asbestos & Lead Evaluation Report**

<b>ASBESTOS EVALUATION REPORT</b> <b>APEX PROJECT NUMBER: 0120-17</b>
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Date:	8/12/2020	Page Number:	1 of 4
Client:	City of Spartanburg	Client Contact:	Mr. Jeff Tillerson
Client Address:	440 South Church Street Suite B Spartanburg, SC 29306	Client Phone Number:	(864) 596-2911
Project:	Asbestos Evaluation and Lead Based Paint Assessment		
Property Address:	319 Caulder Avenue Spartanburg, SC 29306		
Assessor:	Tom Oliver	Date of Assessment:	7/23/2020
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 60 years
Building Type:	Residential	Number of Stories:	1
Foundation:	Brick Crawlspace	Approximate Square Footage:	1,225 SF

**EXTERIOR BUILDING MATERIALS**

- Pitched wooden roof with shingles & felt.
- Brick siding over unfinished drywall.
- Wooden windows with glazing.
- Windows & door casing caulk.
- Metal front porch awning with caulk/glazing.
- Metal awnings over windows with no caulk.
- Chimney tar on 1 chimney – assumed to be ACM.

**INTERIOR BUILDING MATERIALS**

- Plaster with finish over unfinished drywall walls & ceiling throughout.
- Wooden floors.
- Multiple types & layers of vinyl flooring with & without mastics/adhesives.
- Vinyl flooring exists under wood.

## **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 EMSL Analytical, Inc. (EMSL) as an NVLAP certified laboratory, their accreditation number is 200841-0.
- 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. Thirty-eight (38) 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 200841-0. EPA regulations require that multiple samples of each homogeneous material be collected for laboratory analysis. Fifty-six (56) 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). Sixteen (16) 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. OSHA defines ACM as a material containing detectable amounts of asbestos. It should be noted that materials were 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.

Suspect asbestos containing materials that were identified to be asbestos containing include:

- Approximately 15 LF caulk/glazing on the metal awning over the front porch.
- Approximately 215 SF of the 5<sup>th</sup> layer (2<sup>nd</sup> layer under wood) of floor tile in the kitchen.
- Approximately 25 SF of the 3<sup>rd</sup> layer (1<sup>st</sup> layer under wood) of beige vinyl floor in the bathroom.
- Approximately 6 LF of tar on 1 chimney – assumed positive.

#### 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 µg/m<sup>3</sup>) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50 µg/m<sup>3</sup>) for employees.

Currently, EPA defines 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. Paint-chip sampling was not required for XRF inconclusive values.

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

#### Exterior:

- White wooden soffit.
- White metal door lintels.

#### Interior:

- Tan wooden window systems.

## **RECOMMENDATIONS AND DISCUSSION**

### Asbestos Containing Materials

If the above referenced asbestos materials are to be disturbed by renovations or demolition, the asbestos must be removed in accordance with EPA, State of South Carolina and OSHA asbestos regulations. The State of South Carolina, Department of Health and Environmental Control (DHEC) has specific regulations that must be adhered to during asbestos removal/abatement projects.

APEX recommends the following:

1. Abate the asbestos containing materials in the structure prior to renovation or demolition.

2. Follow applicable asbestos regulations during renovation or demolition of the structure. You should be aware that stringent requirements are imposed upon anyone renovating or demolishing a structure in which ACM will be disturbed. This work must be performed in accordance with OSHA asbestos regulations, 29 CFR 1910 & 1926, and NESHAP asbestos regulations 40 CFR 61, subpart M. South Carolina regulations require the accreditation of personnel who work in the asbestos field and notification and permitting fees for asbestos removal projects. There is a 10 working day notification period required prior to abatement of asbestos in a facility. Failure to take proper precautions and actions to protect human health and the environment can result in penalties, danger to personnel, and construction delays.

### Lead-Based Paint

Currently the Environmental Protection Agency (EPA) define LBP as paint containing greater than 1.0 milligrams per square centimeter (mg/cm<sup>2</sup>) lead or in excess of, or equal to, 0.5 percent lead. Building materials identified as being painted with LBP should be segregated from the other building materials and recycled or disposed of in a municipal lined landfill. The removed wastes would need to be containerized and further tested by Toxic Characteristic Leaching procedures (TCLP) to determine if the waste is classified as hazardous. The remaining building materials that are not painted with LBP may be disposed of in a construction and demolition landfill. 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/ 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 (µg/m<sup>3</sup>) 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 319 Caulder Avenue NIP ACM-LBP

Sampled By: Tom Oliver

Project Location: 319 Caulder Avenue, Spartanburg, South Carolina 29306

Project Manager: Tom Oliver

Project Number: 0120-17

Date: 7/23/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roof shingles (1 layer) & felt (1 layer)	PLM - NAD	Non-Friable	Good	1,400 SF
2			TEM - NAD			
3						
4	Wooden windows	Window glazing	PLM - NAD	Non-Friable	Good	19 EA
5			TEM - NAD			
6						
7	Wooden window & door casings	Casing caulk	PLM - NAD	Non-Friable	Good	13 EA
8			TEM - NAD			
9						
10	Metal window awning on the front porch	Awning caulk/glazing	2% chrysotile	Non-Friable	Good	15 LF
11						
12						
13	Throughout under brick siding & in exterior back storage room	Unfinished drywall	PLM - NAD	Friable	Good	1,800 SF
14						
15						
16	Crawlspace	Gray HVAC mastic	PLM - NAD	Non-Friable	Good	250 SF
17			TEM - NAD			
18						
19	Throughout walls & ceilings	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	3,100 SF
20						
21						
22						
23						

**ASBESTOS SURVEY FIELD DATA SHEET  
PLM & TEM ANALYSIS**

Project Name: COS 319 Caulder Avenue NIP ACM-LBP

Sampled By: Tom Oliver

Project Location: 319 Caulder Avenue, Spartanburg, South Carolina 29306

Project Manager: Tom Oliver

Project Number: 0120-17

Date: 7/23/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24	Kitchen & in the hallway closet (top layer)	Green large square pattern vinyl floor & adhesive	PLM - NAD	Non-Friable	Good	220 SF
25			TEM - NAD			
26						
27	Kitchen (2nd & 3rd layers)	12" x 12" gray square pattern self-stick floor tile over floor tile & adhesive	PLM - NAD	Non-Friable	Good	215 SF
28			TEM - NAD			
29						
30	Kitchen (4th & 5th layers under wood)	12" x 12" brown floor tile & mastic over floor tile & mastic	PLM - NAD (tile 4 & mastics & tile 5 mastic); 2% chrysotile (tile 5)	Non-Friable	Good	215 SF
31			TEM - NAD (tile 4 & mastic); 0.79% chrysotile (tile 5 mastic)			
32						
33	Bathroom (1st & 2nd layers)	12" x 12" wooden pattern self-stick floor tile over tan vinyl floor & mastic	PLM - NAD	Non-Friable	Good	25 SF
34			TEM - NAD			
35						
36	Bathroom (3rd layer under wood)	Beige vinyl floor with no mastic	PLM - 8% chrysotile	Non-Friable	Good	25 SF
37						
38						
Assumed	Chimney	Tar on 1 chimney	Assumed	Non-Friable	Good	6 LF

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 319 Caulder Avenue NIP ACM-LBP

Sampled By: Tom Oliver

Project Location: 319 Caulder Avenue, Spartanburg, SC 29306

Project Manager: Tom Oliver

Project Number: 0120-17

Date: 8/12/2020

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m <sup>3</sup> )
1		Standardization			184.00
2		Calibration			1.18
3		Calibration			1.21
4		Calibration			1.19
5	Exterior	Front porch awning	White	Metal	0.00
6	Exterior	Front porch floor	Gray	Concrete	0.00
7	Exterior	Front porch door	White	Metal	0.00
8	Exterior	Front porch door casing	White	Wood	0.00
9	Exterior	Front porch handrail	Black	Metal	0.10
10	Exterior	Front porch awning post	Black	Metal	0.03
11	Exterior	Window	White	Wood	0.64
12	Exterior	Window casing	White	Wood	0.31
13	Exterior	Window lintel	White	Metal	0.37
14	Exterior	Storage room door	White	Wood	0.37
15	Exterior	Storage room door casing	White	Wood	0.31
<b>16</b>	<b>Exterior</b>	<b>Soffit</b>	<b>White</b>	<b>Wood</b>	<b>2.83</b>
17	Exterior	Fascia	White	Wood	0.00
<b>18</b>	<b>Exterior</b>	<b>Door lintel</b>	<b>White</b>	<b>Metal</b>	<b>2.58</b>
19	Interior	Wall	Tan	Plaster	0.08
20	Interior	Ceiling	Tan	Plaster	0.05
21	Interior	Base board	Tan	Wood	0.07
22	Interior	Door	Tan	Wood	0.00
23	Interior	Door casing	Tan	Wood	0.01
<b>24</b>	<b>Interior</b>	<b>Window</b>	<b>Tan</b>	<b>Wood</b>	<b>1.43</b>
<b>25</b>	<b>Interior</b>	<b>Window sill</b>	<b>Tan</b>	<b>Wood</b>	<b>1.23</b>

**Bold = LBP**

**SECTION III**

**Laboratory Analytical Results & Chain of Custody**



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134  
Tel/Fax: (704) 525-2205 / (704) 525-2382  
<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 412006254  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

**Attention:** Tom Oliver  
Apex Environmental Management  
7 Winchester Court  
Mauldin, SC 29662

**Phone:** (864) 640-5274  
**Fax:**  
**Received Date:** 07/27/2020 9:30 AM  
**Analysis Date:** 07/30/2020 - 07/31/2020  
**Collected Date:** 07/23/2020

**Project:** 0120-17 COS 319 Caulder Ave. (City of Spartanburg)

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-Shingle <small>412006254-0001</small>	Roof Shingle (1 Layer) with Tar & Felt (1 Layer)	Black Fibrous Homogeneous	8% Glass	5% Quartz 10% Ca Carbonate 77% Non-fibrous (Other)	None Detected
1-Felt <small>412006254-0001A</small>	Roof Shingle (1 Layer) with Tar & Felt (1 Layer)	Black Non-Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
2-Shingle <small>412006254-0002</small>	Roof Shingle (1 Layer) with Tar & Felt (1 Layer)	Gray Fibrous Homogeneous	5% Glass	15% Quartz 15% Ca Carbonate 65% Non-fibrous (Other)	None Detected
2-Felt <small>412006254-0002A</small>	Roof Shingle (1 Layer) with Tar & Felt (1 Layer)	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
4 <small>412006254-0003</small>	Window Glazing	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
5 <small>412006254-0004</small>	Window Glazing	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
7 <small>412006254-0005</small>	Window & Door Casing Caulk	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
8 <small>412006254-0006</small>	Window & Door Casing Caulk	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
10 <small>412006254-0007</small>	Awning Caulk	Tan Non-Fibrous Homogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
11 <small>412006254-0008</small>	Awning Caulk				Positive Stop (Not Analyzed)
13 <small>412006254-0009</small>	Unfinished Drywall	Tan Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
14 <small>412006254-0010</small>	Unfinished Drywall	Tan Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
15 <small>412006254-0011</small>	Unfinished Drywall	Gray Fibrous Homogeneous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected
16-Mastic <small>412006254-0012</small>	Gray HVAC Mastic	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
16-Wrap <small>412006254-0012A</small>	Gray HVAC Mastic	Brown Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
17-Mastic <small>412006254-0013</small>	Gray HVAC Mastic	Gray Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected

Report amended: 08/07/2020 12:40:13 Replaces initial report from: 07/31/2020 15:01:33 Reason Code: Client-Change to Project



**EMSL Analytical, Inc.**  
 10801 Southern Loop Blvd Pineville, NC 28134  
 Tel/Fax: (704) 525-2205 / (704) 525-2382  
 http://www.EMSL.com / charlotte@emsl.com

**EMSL Order:** 412006254  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17-Wrap 412006254-0013A	Gray HVAC Mastic	Tan/Silver Non-Fibrous Homogeneous	40% Cellulose 5% Glass	55% Non-fibrous (Other)	None Detected
18-Wrap 412006254-0013B	Gray HVAC Mastic	Gray/Tan/Silver Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
19-Skim Coat 412006254-0014	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
19-Rough Coat 412006254-0014A	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
19-Drywall 412006254-0014B	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
20-Skim Coat 412006254-0015	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
20-Rough Coat 412006254-0015A	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous		40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
20-Drywall 412006254-0015B	Plaster w/ Finish over Unfinished Drywall	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
21-Skim Coat 412006254-0016	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
21-Rough Coat 412006254-0016A	Plaster w/ Finish over Unfinished Drywall	Tan Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
21-Drywall 412006254-0016B	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
22-Skim Coat 412006254-0017	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
22-Rough Coat 412006254-0017A	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous		30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)	None Detected
22-Drywall 412006254-0017B	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
23-Skim Coat 412006254-0018	Plaster w/ Finish over Unfinished Drywall	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
23-Rough Coat 412006254-0018A	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous	1% Cellulose	30% Quartz 8% Ca Carbonate 61% Non-fibrous (Other)	None Detected
23-Drywall 412006254-0018B	Plaster w/ Finish over Unfinished Drywall	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
24-Flooring 412006254-0019	Green Large Square Pattern Vinyl Floor & Adhesive	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
24-Mastic 412006254-0019A	Green Large Square Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected

Report amended: 08/07/2020 12:40:13 Replaces initial report from: 07/31/2020 15:01:33 Reason Code: Client-Change to Project



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 412006254  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
25-Flooring 412006254-0020	Green Large Square Pattern Vinyl Floor & Adhesive	Gray/White Fibrous Heterogeneous	3% Glass	5% Ca Carbonate 92% Non-fibrous (Other)	None Detected
25-Mastic 412006254-0020A	Green Large Square Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
27-Flooring 2 412006254-0021	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Beige Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
27-Floor Tile 3 412006254-0021A	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Gray/White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
27-Mastic 412006254-0021B	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Clear Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
28-Flooring 2 412006254-0022	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Gray/Tan Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
28-Floor Tile 3 412006254-0022A	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Gray/Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
28-Mastic 412006254-0022B	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Floor Tile 4 412006254-0023	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Brown/Tan Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
30-Mastic 412006254-0023A	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Yellow Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
30-Floor Tile 5 412006254-0023B	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Brown Non-Fibrous Homogeneous		40% Ca Carbonate 56% Non-fibrous (Other)	4% Chrysotile
30-Mastic 412006254-0023C	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected
31-Floor Tile 4 412006254-0024	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Yellow/Green Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
31-Mastic 412006254-0024A	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected
31-Floor Tile 5 412006254-0024B	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic				Positive Stop (Not Analyzed)

Report amended: 08/07/2020 12:40:13 Replaces initial report from: 07/31/2020 15:01:33 Reason Code: Client-Change to Project





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

http://www.EMSL.com / charlottelab@emsl.com

EMSL Order: 412006254  
 Customer ID: AXEM25  
 Customer PO:  
 Project ID: City of Spartanburg

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
31-Mastic 412006254-0024C	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Beige Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
33-Floor Tile 412006254-0025	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Brown Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
33-Flooring 412006254-0025A	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Tan/White Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
33-Mastic 412006254-0025B	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
34-Floor Tile 412006254-0026	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
34-Flooring 412006254-0026A	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Gray/Tan Fibrous Heterogeneous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected
34-Mastic 412006254-0026B	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-Flooring 412006254-0027 <i>No mastic present</i>	Beige Vinyl Floor & Mastic	Tan Fibrous Homogeneous		10% Ca Carbonate 82% Non-fibrous (Other)	8% Chrysotile
37-Flooring 412006254-0028 <i>No mastic present</i>	Beige Vinyl Floor & Mastic				Positive Stop (Not Analyzed)

Analyst(s)

Eric Loomis (25)

Sarah Breneman (31)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

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

Report amended: 08/07/2020 12:40:13 Replaces initial report from: 07/31/2020 15:01:33 Reason Code: Client-Change to Project



# EMSL Analytical, Inc.

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**EMSL Order:** 412006254  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

**Attention:** Tom Oliver  
Apex Environmental Management  
7 Winchester Court  
Mauldin, SC 29662  
**Phone:** (864) 640-5274  
**Fax:**  
**Received Date:** 07/27/2020 9:30 AM  
**Analysis Date:** 08/06/2020  
**Collected Date:** 07/23/2020  
**Project:** 0120-17 COS 319 Caulder Ave. (City of Spartanburg)

## 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 412006254-0029	Roof Shingle (1 Layer) with Tar & Felt (1 Layer)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412006254-0030	Roof Shingle (1 Layer) with Tar & Felt (1 Layer)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6 412006254-0031	Window Glazing	Gray/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9 412006254-0032	Window & Door Casing Caulk	Gray/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
18-Mastic 412006254-0033	Gray HVAC Mastic	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
26-Flooring 412006254-0034	Green Large Square Pattern Vinyl Floor & Adhesive	Gray/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
26-Mastic 412006254-0035	Green Large Square Pattern Vinyl Floor & Adhesive	Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
29-Flooring 2 412006254-0036	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Gray/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
29-Floor Tile 3 412006254-0037	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
29-Mastic 412006254-0038	Gray Square Pattern 12"x12" Self-Stick F.T. over 3rd Layer of Floor Tile & Adhesive	Clear Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
32-Floor Tile 4 412006254-0039	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Tan/White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
32-Mastic 412006254-0040	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Report amended: 08/07/2020 12:40:13 Replaces initial report from: 08/07/2020 08:39:09 Reason Code: Client-Change to Project



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

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<b>EMSL Order:</b> 412006254
<b>Customer ID:</b> AXEM25
<b>Customer PO:</b>
<b>Project ID:</b> City of Spartanburg

<b>Attention:</b> Tom Oliver Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	<b>Phone:</b> (864) 640-5274 <b>Fax:</b> <b>Received Date:</b> 07/27/2020 9:30 AM <b>Analysis Date:</b> 08/06/2020 <b>Collected Date:</b> 07/23/2020
<b>Project:</b> 0120-17 COS 319 Caulder Ave. (City of Spartanburg)	

## 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
32-Mastic 412006254-0041	12"x12" Brown Floor Tile & Mastic over 5th Layer of Floor Tile & Mastic	White Non-Fibrous Homogeneous	99.21 Other	None	0.79% Chrysotile
35-Floor Tile 412006254-0042	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Brown/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
35-Flooring 412006254-0043	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Tan/White Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
35-Mastic 412006254-0044	12"x12" Wooden Pattern Self-Stick Floor Tile over Tan Vinyl Floor & Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Derrick Young (16)

Lee Plumley, Laboratory Manager  
or other approved signatory

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

Report amended: 08/07/2020 12:40:13 Replaces initial report from: 08/07/2020 08:39:09 Reason Code: Client-Change to Project



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

412006254

Pineville, NC 28134  
Phone (704) 525-2205  
Fax (704) 525-2382

Company Name : Apex Environmental Management, Inc.		EMSL Customer ID:	
Street: 7 Winchester Court		City: Mauldin	State or Province: SC
Zip/Postal Code: 29662	Country: US	Telephone #: 8644043210	Fax #:
Report To (Name): Tom Oliver		Please Provide Results via: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
email Address: tolover@apex-ehs.com		Purchase Order Number:	
Client Project ID: 0120-17 COS 319 Candler Ave		EMSL Project ID (internal use only):	
State or Province Collected: SC		CT only <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different - If bill to is different note instructions in comment. Third party billing requires written authorization from third party			
Turnaround Time (TAT) Options Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 32 Hour*
<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> 1 Week
<input type="checkbox"/> 2 Week	*32 Hour TAT available for select tests only; samples must be submitted by 11:30am. Please call ahead for large projects and/or turnaround times 6 hours or less.		
<b>PLM - Bulk (reporting limit)</b>		<b>TEM - Bulk</b>	
<input checked="" type="checkbox"/> PLM EPA 800/R-93/116 (<1%)		<input checked="" type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 non-friable - NY	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1- friable - NY		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB- non-friable - NY		<b>Other tests (please specify)</b>	
<input type="checkbox"/> NY ELAP Method 198.8- Vermiculite Surfacing Material			
<input type="checkbox"/> OSHA ID-191 Modified			
<input type="checkbox"/> EMSL Standard Addition Method			
<input checked="" type="checkbox"/> Positive Stop - Clearly Identify Homogenous Areas (HA)		Date Sampled: 7-23-2020	
Sampler's Name: Tom Oliver		Sampler's Signature:	
Sample #	HA #	Sample Location	Material Description
1		Roof shingles (1 layer) on roof	PLM
2		tar & felt (1 layer)	I
3			TEM
4		Window glazing	PLM
5			I
6			TEM
Client Sample # (s): 1-38		Total # of Samples: 38	
Relinquished by (Client):		Date: 7-24-2020	Time: 3:30 PM
Received by (Lab):		Date: 7/27/20	Time: 9:30 AM FK
Comments/Special Instructions: <small>Positive stop on all samples if joint compound on drywall is positive, then positive stop on drywall and tape layers Bd/Tec: Apex Environmental Management, Inc., 7 Winchester Court, Mauldin, SC, 29662, US Attention: Rebecca Shutz Phone: 8644043210 Email: rshutz@apex-ehs.com Purchase Order:</small>		7958 9825 0618	



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

**Asbestos Bulk Building Material**

**Chain of Custody**

EMSL Order Number (lab use only):

6254

EMSL Analytical, Inc.  
10801 Southern Loop Blvd

Pineville, NC 28134  
Phone (704) 525-2205  
Fax (704) 525-2382

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
7		Window & door casing caulk	PLM
8			I
9			TEM
10		Awning caulk	PLM
11			I
12			TEM
13		Unfinished drywall	PLM
14			I
15			I
16		Gray HVAC mastic	PLM
17	--		I
18			TEM
19		Plaster w/ finish over	PLM
20		unfinished drywall	
21			
22			
23			
24		Green large square pattern	PLM
25		vinyl floor & adhesive	I
26			TEM

**\*Comments/Special Instructions:**  
 Positive stop on all samples. If joint compound on drywall is positive, then positive stop on drywall and tape layers.  
 Bill To: Apex Environmental Management, Inc., 7 Winchester Court, Mauldin, SC, 29662, US  
 Attention: Rebecca Shultz Phone: 8644043210 Email: rshultz@apex-ehs.com Purchase Order:



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

6254

EMSL Analytical, Inc.  
10801 Southern Loop Blvd

Pineville, NC 28134  
Phone (704) 525-2205  
Fax (704) 525-2382

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

T.O.

Sample #	HA #	Sample Location	Material Description
27		Gray square pattern 12"x12"	PLM
28		Self-stick F.T. over 3 <sup>rd</sup> layer	↓
29		of floor tile + adhesive	TEM
30		12"x12" brown floor tile +	PLM
31		mastic over 5 <sup>th</sup> layer of	↓
32		floor tile + mastic	TEM
<del>33</del>		<del>Beige vinyl floor +</del>	<del>PLM</del>
<del>34</del>		<del>mastic</del>	<del>↓</del>
<del>35</del>		<del>T.O.</del>	<del>TEM T.O.</del>
33		12"x12" wooden pattern self-stick	PLM
34		floor tile over tan vinyl	↓
35		floor + mastic	TEM
36		Beige vinyl floor +	PLM
37		mastic	↓
38			TEM

**\*Comments/Special Instructions:**  
Positive stop on all samples. If joint compound on drywall is positive, then positive stop on drywall and tape layers.  
Bill To: Apex Environmental Management, Inc., 7 Winchester Court, Mauldin, SC, 29662, US  
Attention: Rebecca Shultz Phone: 8644043210 Email: rshultz@apex-ehs.com Purchase Order:

**SECTION IV**  
**Photographic Log**



Photo 1 – 319 Caulder Avenue Street in Spartanburg, South Carolina 29306



Photo 2 – Roof shingles & felt paper



Photo 3 – 1 chimney with tar – assumed positive



Photo 4 – Wooden window glazing



Photo 5 – Window & door casing caulk



Photo 6 – Caulk/glazing on the metal awning over the front porch





Photo 7 – Unfinished drywall in the exterior back storage room



Photo 8 – Unfinished drywall throughout under brick siding



Photo 9 – Plaster with finish over unfinished drywall ceilings throughout



Photo 10 – Plaster with finish over unfinished drywall walls throughout



Photo 11 – Green large square pattern vinyl floor & adhesive in the kitchen & in the hallway closet (top layer)



Photo 12 – 12" x 12" gray square pattern self-stick floor tile over floor tile & adhesive in the kitchen (2<sup>nd</sup>/3<sup>rd</sup> layers)



Photo 13 – 12" x 12" brown floor tile & mastic over floor tile & mastic in the kitchen (4th & 5th layers under wood)



Photo 14 – 12" x 12" wooden pattern self-stick floor tile over tan vinyl floor & mastic in the bathroom (1<sup>st</sup> & 2<sup>nd</sup> layers)



Photo 15 – Beige vinyl floor with no mastic in the bathroom (3rd layer under wood)

**SECTION V**

**SC DHEC Asbestos Inspector License**

---

**SCDHEC ISSUED**  
Asbestos ID Card

---

**Thomas H Oliver**



AIRSAMPLER AS-00202  
CONSULTBI BI-00680

Expiration Date:  
06/18/21  
01/15/21

This card is nontransferable and ..... invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information of corrections contact: SCDHEC – Asbestos Section  
2600 Bull Street  
Columbia, SC 29201  
(803) 898-4289