



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

City of Spartanburg  
321 Caulder 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

February 10, 2020





**Apex Project Number 0120-17**

February 10, 2020

7 Winchester Court  
Mauldin, SC 29662  
864.404.3210 office  
864.404.3213 fax  
[www.apex-ehs.com](http://www.apex-ehs.com)

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

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

**SERVICES**

- Indoor Air Quality
- Mold Remediation
- Asbestos & Lead
- Industrial Hygiene
- Worker Health & Safety
- Mold Consulting
- Moisture Management Plans
- Safety Assessment
- Environmental Site Assessments
- Hazard Communication

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.**

A handwritten signature in blue ink, appearing to read 'S. Hamby'.

Stephanie Hamby  
Field Scientist

A handwritten signature in blue ink, appearing to read 'Tom Oliver'.

Tom Oliver  
Vice President

Appendices

**ASBESTOS AND LEAD BASED PAINT ASSESSMENT**

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

**APEX PROJECT NO. 0120-17**

**TABLE OF CONTENTS**

**SECTION**

- I Asbestos & Lead Evaluation Report
- II Asbestos & LBP Data Tables
- III Laboratory Analytical Results
- IV Photographic Log
- V SC DHEC Asbestos Inspector License

**SECTION I**

**Asbestos & Lead Evaluation Report**

<b>ASBESTOS EVALUATION REPORT</b> <b>APEX PROJECT NUMBER: 0120-17</b>
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Date:	2/10/2020	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:	321 Caulder Avenue Spartanburg, SC 29306		
Assessor:	Ted Shultz	Date of Assessment:	1/08/2020
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 50+ years
Building Type:	Residential	Number of Stories:	1
Foundation:	Block crawlspace	Approximate Square Footage:	1,500 SF

**EXTERIOR BUILDING MATERIALS**

- Roll roof shingles on back porch roof.
- Tab shingles and two layers of felt on the main roof.
- Aluminum siding.
- Transite with felt siding.
- Aluminum awnings.
- Metal windows.
- Wood windows.
- Wood doors.
- Window glazing.
- Chimney tar on 1 chimney – assumed.
- Roofing tar on back porch roof– assumed.

**INTERIOR BUILDING MATERIALS**

- Wood floors.
- Ceramic tile.
- Multiple types & layers of vinyl floors with & without mastics.
- Plaster with finish walls & ceilings.
- Unfinished drywall walls & ceilings.
- Popcorn ceiling texture in left rear room.
- Swirl ceiling texture in the kitchen.
- Interior caulk on windows.

## **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. Forty-nine (49) 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. Sixty (60) 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). Seventeen (17) 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. 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 150 SF of popcorn ceiling texture located in the left rear room.
- Approximately 150 SF of brown and red roll vinyl flooring located in the front left bedroom.
- Approximately 120 SF of green roll vinyl flooring located in the rear 4<sup>th</sup> bedroom.
- Approximately 4,100 SF of white transite siding.
- Approximately 6 LF of chimney tar on 1 chimney (Assumed).
- Approximately 25 SF of roof tar on the back porch roof (Assumed).

### 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  $\mu\text{g}/\text{m}^3$ ) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50  $\mu\text{g}/\text{m}^3$ ) for employees.

Currently, EPA defines LBP as paint containing in excess of, or equal to, 1.0  $\text{mg}/\text{cm}^2$ . *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:

#### Exterior:

- Grey concrete front steps.
- White wood doors.
- White wood window & door frames.

#### Interior:

- No lead based paint found in tested areas.

## **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 ( $\text{mg}/\text{cm}^2$ ) 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  $0.1 \text{ mg}/\text{cm}^2$  or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) 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 321 Caulder Avenue NIP ACM-LBP

Sampled By: Ted Shultz

Project Location: 321 Caulder Avenue, Spartanburg, SC 29301

Project Manager: Ted Shultz

Project Number: 0120-17

Date: 1/8/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roofing (1 shingle, 2 felt)	PLM - NAD	Non-friable	Good	1,850 SF
2			TEM - NAD			
3						
4	Back porch roof	Roofing (2 roll shingles & tar with no no felt)	PLM - NAD	Non-friable	Good	200 SF
5			TEM - NAD			
6						
7	Exterior siding	Transite & felt	<b>PLM - 25% Chrysotile (Transite),</b> PLM - NAD (Felt)	Non-friable	Good	4,100 SF
8			TEM - NAD (Felt)			
9						
10	Left rear room	Popcorn ceiling Texture	PLM - 2% Chrysotile	Friable	Good	150 SF
11						
12						
13	Kitchen closet	Felt flooring red/green floral	PLM - NAD	Non-friable	Good	6 SF
14			TEM - NAD			
15						
16	Walls & Ceiling (except rear left room)	Plaster w/ finish	PLM - NAD	Friable	Good	3,500 SF
17						
18						
19						
20						
21	Walls & Ceiling throughout	Unfinished drywall (no joint compound)	PLM - NAD	Friable	Good	4,100 SF
22						
23						
24						
25						

# ASBESTOS SURVEY FIELD DATA SHEET PLM & TEM ANALYSIS

Project Name: COS 321 Caulder Avenue NIP ACM-LBP

Sampled By: Ted Shultz

Project Location: 321 Caulder Avenue, Spartanburg, SC 29301

Project Manager: Ted Shultz

Project Number: 0120-17

Date: 1/8/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
26	Interior window frames	White caulk	PLM - NAD	Non-Friable	Good	14 EA
27			TEM - NAD			
28						
29	Windows	Glazing	PLM - NAD	Friable	Good	12 EA
30			TEM - NAD			
31						
<b>32</b>	<b>Front left bedroom</b>	<b>Brown &amp; red roll vinyl (no visible mastic)</b>	<b>PLM - 15% Chrysotile</b>	<b>Non-Friable</b>	<b>Good</b>	<b>150 SF</b>
<b>33</b>						
<b>34</b>						
35	Kitchen	Roll vinyl brown square pattern w/ mastic & 9x9 red tile w/ mastic & felt	PLM - NAD	Non-Friable	Good	150 SF
36			TEM - NAD			
37						
38	Kitchen walls	Mastic under tile	PLM - NAD	Non-Friable	Good	420 SF
39			TEM - NAD			
40						
41	Kitchen	Swirl pattern ceiling texture	PLM - NAD	Friable	Good	150 SF
42						
43						
44	Left third bedroom	Tan roll vinyl floor (no visible mastic)	PLM - NAD	Non-Friable	Good	120 SF
45			TEM - NAD			
46						
<b>47</b>	<b>Rear fourth bedroom</b>	<b>Green roll vinyl floor w/ mastic</b>	<b>PLM - 15% Chrysotile (green flooring),</b>	<b>Non-Friable</b>	<b>Good</b>	<b>120 SF</b>
<b>48</b>			PLM - NAD (mastic)			
<b>49</b>			TEM - NAD (mastic)			
<b>Assumed</b>	<b>Chimney</b>	<b>Chimney tar</b>	<b>Assumed</b>	<b>Non-friable</b>	<b>Good</b>	<b>6 LF</b>

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

**Bold = Positive For Asbestos**

SF = Square Feet

Chry = Chrysotile

**FIELD DATA SHEET  
LBP ANALYSIS**

Project Name: COS 321 Caulder Avenue NIP ACM-LBP

Sampled By: Tom Oliver

Project Location: 321 Caulder Avenue, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0120-17

Date: 1/30/2020

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m <sup>3</sup> )
31	Exterior	CMU	White	Concrete	0.00
32	Exterior	Hand Rail	White	Metal	0.00
33	Exterior	Porch Rail	White	Wood	0.00
34	Exterior	Porch Ceiling	White	Wood	0.67
35	Exterior	Porch Header	White	Wood	0.79
36	Exterior	Porch Column	White	Metal	0.34
<b>37</b>	<b>Exterior</b>	<b>Window Frame</b>	<b>White</b>	<b>Wood</b>	<b>0.99</b>
38	Exterior	Siding	White	Metal	0.00
<b>39</b>	<b>Exterior</b>	<b>Front Steps</b>	<b>Grey</b>	<b>Concrete</b>	<b>1.00</b>
<b>40</b>	<b>Exterior</b>	<b>Door</b>	<b>White</b>	<b>Wood</b>	<b>1.09</b>
<b>41</b>	<b>Exterior</b>	<b>Door Frame</b>	<b>White</b>	<b>Wood</b>	<b>0.90</b>
42	Interior	Window	White	Wood	0.11
43	Interior	Window Casing	White	Wood	0.20
44	Interior	Wall	White	Plaster	0.05
45	Interior	Wall	Blue	Plaster	0.02
46	Interior	Fireplace Mantle	White	Wood	0.26
47	Interior	Baseboard	White	Wood	0.05
48	Interior	Door	White	Wood	0.00
49	Interior	Door Casing	White	Wood	0.07
50	Interior	Bath Cabinet	Green	Wood	0.10
51	Interior	Window	Brown	Wood	0.26
52	Interior	Window Frame	Brown	Wood	0.11
53	Interior	Kitchen Cabinet	White	Wood	0.04

**Bold = LBP**

**SECTION III**

**Laboratory Analytical Results**



# 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: 412000574

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

**Attention:** Stephanie Hamby  
Apex Environmental Management  
7 Winchester Court  
Mauldin, SC 29662

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/20/2020 11:57 AM

**Analysis Date:** 01/22/2020 - 01/24/2020

**Collected Date:** 01/08/2020

**Project:** COS 321 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>412000574-0001</small>	Roof - 1 Shingle, 2 Felt	Gray/Black Fibrous Homogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
1-Felt 1 <small>412000574-0001A</small>	Roof - 1 Shingle, 2 Felt	Brown/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
1-Felt 2 <small>412000574-0001B</small>	Roof - 1 Shingle, 2 Felt	Brown/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
2-Shingle <small>412000574-0002</small>	Roof - 1 Shingle, 2 Felt	Gray/Black Fibrous Heterogeneous	<1% Cellulose 8% Glass	92% Non-fibrous (Other)	None Detected
2-Felt 1 <small>412000574-0002A</small>	Roof - 1 Shingle, 2 Felt	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
2-Felt 2 <small>412000574-0002B</small>	Roof - 1 Shingle, 2 Felt	Brown/Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
4-Shingle 1 <small>412000574-0003</small>	Back Porch Roof - 2 Rooll Shingle & Tar (No Felt)	Black Fibrous Homogeneous	<1% Cellulose 5% Glass	95% Non-fibrous (Other)	None Detected
4-Shingle 2 <small>412000574-0003A</small>	Back Porch Roof - 2 Rooll Shingle & Tar (No Felt)	Gray/Black Fibrous Homogeneous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
4-Tar <small>412000574-0003B</small>	Back Porch Roof - 2 Rooll Shingle & Tar (No Felt)	Black Fibrous Homogeneous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
5-Shingle 1 <small>412000574-0004</small>	Back Porch Roof - 2 Rooll Shingle & Tar (No Felt)	Gray/Tan/Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
5-Shingle 2 <small>412000574-0004A</small>	Back Porch Roof - 2 Rooll Shingle & Tar (No Felt)	Gray/Black Fibrous Heterogeneous	<1% Cellulose 8% Glass	92% Non-fibrous (Other)	None Detected
5-Tar <small>412000574-0004B</small>	Back Porch Roof - 2 Rooll Shingle & Tar (No Felt)				Positive Stop (Not Analyzed)
7-Transite <small>412000574-0005</small>	Ext. Siding - Transite & Felt	Gray/White Fibrous Homogeneous		10% Ca Carbonate 65% Non-fibrous (Other)	25% Chrysotile
7-Felt <small>412000574-0005A</small>	Ext. Siding - Transite & Felt	Brown/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
8-Transite <small>412000574-0006</small>	Ext. Siding - Transite & Felt				Positive Stop (Not Analyzed)
8-Felt <small>412000574-0006A</small>	Ext. Siding - Transite & Felt	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:11:13



# 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:** 412000574  
**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
9-Transite <small>412000574-0006B</small>	Ext. Siding - Transite & Felt				Positive Stop (Not Analyzed)
10 <small>412000574-0007</small>	Left Rear Room - C-Text (popcorn)	White/Beige Non-Fibrous Homogeneous		20% Ca Carbonate 5% Mica 73% Non-fibrous (Other)	2% Chrysotile
11 <small>412000574-0008</small>	Left Rear Room - C-Text (popcorn)				Positive Stop (Not Analyzed)
12 <small>412000574-0009</small>	Left Rear Room - C-Text (popcorn)				Positive Stop (Not Analyzed)
13 <small>412000574-0010</small>	Kitchen Closet - Felt Flooring Red/Green Floral	Red/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
14 <small>412000574-0011</small>	Kitchen Closet - Felt Flooring Red/Green Floral	Tan/Red/Black Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
16-Skim Coat <small>412000574-0012</small>	Wall & Ceiling Throughout - Plaster w/ Finish	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
16-Rough Coat <small>412000574-0012A</small>	Wall & Ceiling Throughout - Plaster w/ Finish	Gray Non-Fibrous Homogeneous	<1% Cellulose	25% Mica 75% Non-fibrous (Other)	None Detected
17-Skim Coat <small>412000574-0013</small>	Wall & Ceiling Throughout - Plaster w/ Finish	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
17-Rough Coat <small>412000574-0013A</small>	Wall & Ceiling Throughout - Plaster w/ Finish	Tan Non-Fibrous Homogeneous	<1% Cellulose	35% Quartz 10% Ca Carbonate 55% Non-fibrous (Other)	None Detected
18-Skim Coat <small>412000574-0014</small>	Wall & Ceiling Throughout - Plaster w/ Finish	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
18-Rough Coat <small>412000574-0014A</small>	Wall & Ceiling Throughout - Plaster w/ Finish	Tan Non-Fibrous Homogeneous	<1% Cellulose	35% Quartz 10% Ca Carbonate 55% Non-fibrous (Other)	None Detected
19-Skim Coat <small>412000574-0015</small>	Wall & Ceiling Throughout - Plaster w/ Finish	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
19-Rough Coat <small>412000574-0015A</small>	Wall & Ceiling Throughout - Plaster w/ Finish	Tan Non-Fibrous Homogeneous	<1% Cellulose	35% Quartz 10% Ca Carbonate 55% Non-fibrous (Other)	None Detected
20-Skim Coat <small>412000574-0016</small>	Wall & Ceiling Throughout - Plaster w/ Finish	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
20-Rough Coat <small>412000574-0016A</small>	Wall & Ceiling Throughout - Plaster w/ Finish	Tan/Various/Beige Non-Fibrous Heterogeneous		35% Quartz 5% Ca Carbonate 60% Non-fibrous (Other)	None Detected
21 <small>412000574-0017</small>	Wall & Ceiling Throughout - Unfinished Drywall (No JC)	Gray/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
22 <small>412000574-0018</small>	Wall & Ceiling Throughout - Unfinished Drywall (No JC)	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:11:13



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10801 Southern Loop Blvd Pineville, NC 28134

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**EMSL Order:** 412000574  
**Customer ID:** AXEM25  
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## 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
23 412000574-0019	Wall & Ceiling Throughout - Unfinished Drywall (No JC)	Gray Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
24 412000574-0020	Wall & Ceiling Throughout - Unfinished Drywall (No JC)	Gray/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
25 412000574-0021	Wall & Ceiling Throughout - Unfinished Drywall (No JC)	Brown/White Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
26 412000574-0022	Interior Window Frames - White Caulk	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
27 412000574-0023	Interior Window Frames - White Caulk	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
29 412000574-0024	Windows - Glazing	Tan Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
30 412000574-0025	Windows - Glazing	Tan/White/Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
32 412000574-0026	Front Left Bedroom - Brown & Red Roll Vinyl	Tan/Red Fibrous Homogeneous	5% Cellulose	80% Non-fibrous (Other)	15% Chrysotile
33 412000574-0027	Front Left Bedroom - Brown & Red Roll Vinyl				Positive Stop (Not Analyzed)
35-Flooring 412000574-0028	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Green Fibrous Homogeneous	40% Cellulose 5% Synthetic	55% Non-fibrous (Other)	None Detected
35-Mastic 412000574-0028A	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
35-Floor Tile 412000574-0028B	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Red Non-Fibrous Homogeneous	2% Cellulose	20% Quartz 78% Non-fibrous (Other)	None Detected
35-Mastic 412000574-0028C	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
35-Felt 412000574-0028D	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
36-Flooring 412000574-0029	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Tan/Green Fibrous Heterogeneous	20% Cellulose 2% Synthetic	78% Non-fibrous (Other)	None Detected
36-Mastic 412000574-0029A	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Synthetic	100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:11:13





# 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: 412000574

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
36-Floor Tile 412000574-0029B	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Red Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
36-Mastic 412000574-0029C	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Tan/Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
36-Felt 412000574-0029D	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
38 412000574-0030	Kitchen Walls - Mastic Under Tile	Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
39 412000574-0031	Kitchen Walls - Mastic Under Tile	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
41-Skim Coat 412000574-0032	Kitchen Ceiling - Swirl C-Text	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
41-Rough Coat 412000574-0032A	Kitchen Ceiling - Swirl C-Text	Gray Non-Fibrous Homogeneous	<1% Cellulose	25% Perlite 75% Non-fibrous (Other)	None Detected
42-Skim Coat 412000574-0033	Kitchen Ceiling - Swirl C-Text	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
42-Rough Coat 412000574-0033A	Kitchen Ceiling - Swirl C-Text	Gray Non-Fibrous Homogeneous	<1% Cellulose	25% Perlite 75% Non-fibrous (Other)	None Detected
43-Skim Coat 412000574-0034	Kitchen Ceiling - Swirl C-Text	White Non-Fibrous Homogeneous	<1% Cellulose	25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
43-Rough Coat 412000574-0034A	Kitchen Ceiling - Swirl C-Text	Gray Non-Fibrous Heterogeneous		10% Ca Carbonate 30% Perlite 60% Non-fibrous (Other)	None Detected
44 412000574-0035	Left 3rd Bedroom - Tan Roll Vinyl Flr	Gray/Tan Fibrous Homogeneous	5% Cellulose 1% Synthetic	94% Non-fibrous (Other)	None Detected
45 412000574-0036	Left 3rd Bedroom - Tan Roll Vinyl Flr	Brown/Tan/Beige Fibrous Heterogeneous	12% Cellulose	88% Non-fibrous (Other)	None Detected
47-Flooring 412000574-0037	Rear 4th Bedroom - Green Roll Vinyl Flr w/ Mastic	White/Green Fibrous Homogeneous	8% Cellulose	77% Non-fibrous (Other)	15% Chrysotile
47-Mastic 412000574-0037A	Rear 4th Bedroom - Green Roll Vinyl Flr w/ Mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
48-Flooring 412000574-0038	Rear 4th Bedroom - Green Roll Vinyl Flr w/ Mastic				Positive Stop (Not Analyzed)
48-Mastic 412000574-0038A	Rear 4th Bedroom - Green Roll Vinyl Flr w/ Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:11:13



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**EMSL Order:** 412000574

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

Analyst(s)

*Cameron Evans (38)*

*Ryan Rains (22)*

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. 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 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. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. 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. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 01/24/2020 08:11:13



# 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:** 412000574

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

**Attention:** Stephanie Hamby  
Apex Environmental Management  
7 Winchester Court  
Mauldin, SC 29662

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/20/2020 11:57 AM

**Analysis Date:** 01/30/2020

**Collected Date:** 01/08/2020

**Project:** COS 321 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 412000574-0039	Roof - 1 Shingle, 2 Felt	Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 1 412000574-0040	Roof - 1 Shingle, 2 Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 2 412000574-0041	Roof - 1 Shingle, 2 Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6-Shingle 1 412000574-0042	Back Porch Roof - 2 Roll Shingle & Tar (No Felt)	Gray/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
6-Shingle 2 412000574-0043	Back Porch Roof - 2 Roll Shingle & Tar (No Felt)	Gray/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
9-Felt 412000574-0044	Ext. Siding - Transite & Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15 412000574-0045	Kitchen Closet - Felt Flooring Red/Green Floral	Black/Green/Orange Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
28 412000574-0046	Interior Window Frames - White Caulk	Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
31 412000574-0047	Windows - Glazing	Gray/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
37-Flooring 412000574-0048	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Tan/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
37-Mastic 412000574-0049	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
37-Floor Tile 412000574-0050	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Red Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 01/30/2020 15:25:33



# 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:** 412000574

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

**Attention:** Stephanie Hamby  
Apex Environmental Management  
7 Winchester Court  
Mauldin, SC 29662

**Phone:** (864) 640-5274

**Fax:**

**Received Date:** 01/20/2020 11:57 AM

**Analysis Date:** 01/30/2020

**Collected Date:** 01/08/2020

**Project:** COS 321 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
37-Mastic 412000574-0051	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Brown/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
37-Felt 412000574-0052	Kitchen - Roll Vinyl Brown Square Pat w/ Mastic & 9x9 Red Tile w/ Mastic & Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
40 412000574-0053	Kitchen Walls - Mastic Under Tile	Brown/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
46 412000574-0054	Left 3rd Bedroom - Tan Roll Vinyl Flr	Gray/Tan/Yellow Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
49-Mastic 412000574-0055	Rear 4th Bedroom - Green Roll Vinyl Flr w/ Mastic	Tan/Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Scott Combs (17)

Lee Plumley, Laboratory Manager  
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC

Initial report from: 01/30/2020 15:25:33



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### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

412000574

Pineville, NC 28134  
PHONE: (704) 525-2205  
FAX: (704) 525-2382

Company : Apex Environmental Management		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 7 Winchester Court		<i>Third Party Billing requires written authorization from third party</i>	
City: Mauldin	State/Province: SC	Zip/Postal Code: 29662	Country: US
Report To (Name): Stephanie Hamby		Telephone #: 864-640-5274	
Email Address: shamby@apex-ehs.com		Fax #:	Purchase Order:
Project Name/Number: COS 321 Caulder Ave		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: SC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p><b>PLM - Bulk (reporting limit)</b></p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (&lt;1%)</p> <p><input type="checkbox"/> PLM EPA NOB (&lt;1%)</p> <p>Point Count <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (&lt;1%)</p> <p><input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)</p> <p><input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> OSHA ID-191 Modified</p> <p><input type="checkbox"/> Standard Addition Method</p>	<p><b>TEM - Bulk</b></p> <p><input checked="" type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1</p> <p><input type="checkbox"/> NY ELAP Method 198.4 (TEM)</p> <p><input type="checkbox"/> Chatfield Protocol (semi-quantitative)</p> <p><input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep Technique</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;"><b>Other</b></p> <p><input type="checkbox"/></p>
---	---

Check For Positive Stop - Clearly Identify Homogenous Group      Date Sampled: 1-8-2020

Samplers Name: T. Shultz      Samplers Signature: \_\_\_\_\_

Sample #	HA #	Sample Location	Material Description
1		Roof	1 Shingle, 2 felt
2			
3			
4		Back Porch Roof	2 roll shingle & tar (no felt)
5			
6			
7		Ext. Siding	transite & felt
8			
9			
10		Left rear room	c-text (popcorn) N

Client Sample # (s): -	Total # of Samples: 49.
Relinquished (Client): D. Hamby	Date: 1/16/2020      Time: 2:58pm
Received (Lab): [Signature]	Date: 1/17/20      Time: 8:45am FX
Comments/Special Instructions:	7958 1585 4462



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**Asbestos Bulk Building Material  
Chain of Custody**

EMSL Order Number (Lab Use Only):

412000574

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
11		left rear room	C-text (popcorn)
12		└─	└─
13		kitchen closet	felt flooring red/green
14		└─	floral └─
15		└─	└─
16		wall & ceiling throughout	plaster w/ finish
17		(minus rear left room)	└─
18		└─	└─
19		└─	└─
20		└─	└─
21		walls & ceiling throughout	unfinished dry wall
22		└─	(no joint compound)
23		└─	└─
24		└─	└─
25		└─	└─
26		Interior Window frames	white caulk
27		└─	└─
28		└─	└─
29		windows	glazing
30		└─	└─
31		└─	└─
32		front left bedroom	brown & red roll vinyl
33		└─	(no visual mastic) └─
34		└─	└─
*Comments/Special Instructions:			



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### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

412000574

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
35		Kitchen	roll vinyl brown square
36			pat. w/mastic & 9x9 red tile
37			w/mastic & felt
38		Kitchen walls	Mastic under tile
39			
40			
41		Kitchen ceiling	swirl c-text
42			
43			
44		Left 3rd bedroom	tan roll vinyl flr (no
45			visible mast.)
46			
47		rear 4th bedroom	green roll vinyl flr
48			w/mastic
49			
*Comments/Special Instructions:			

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





Photo 1 – 321 Calder Avenue in Spartanburg, South Carolina.



Photo 2 – Assumed asbestos chimney tar.



Photo 3 – Transite exterior siding with black felt.



Photo 4 – Back porch roof.



Photo 5 – Popcorn ceiling texture in left rear bedroom.



Photo 6 – Kitchen swirl ceiling texture.



Photo 7 – Plaster over unfinished drywall.



Photo 8 – Kitchen closet floral felt flooring.



Photo 9 – Front left bedroom flooring.



Photo 10 – Kitchen flooring layers.



Photo 11 – 3<sup>rd</sup> and 4<sup>th</sup> bedroom roll flooring.

**SECTION V**

**SC DHEC Asbestos Inspector License**

**SCDHEC ISSUED**

Asbestos ID Card

**Tedman K Shultz**



<b>CONSULTBI</b>	<b>BI-00971</b>	<b>01/14/21</b>
<b>AIRSAMPLER</b>	<b>AS-00355</b>	<b>03/06/20</b>

Expiration Date:

#