



Asbestos & Lead Based Paint Assessment

City of Spartanburg
183 E. Columbia 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

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

Reference: Asbestos and Lead-Based Paint Assessment Services
183 E. Columbia 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
183 E. COLUMBIA 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

**ASBESTOS EVALUATION REPORT
APEX PROJECT NUMBER: 0120-17**

Date: 2/10/2020 Page Number: 1 of 4

Client: City of Spartanburg Client Contact: Mr. Jeff Tillerson
Client Address: 440 South Church Street Client Phone: (864) 596-2911
Suite B Number:
Spartanburg, SC 29306

Project: Asbestos Evaluation and Lead Based Paint Assessment

Property Address: 183 E. Columbia Avenue
Spartanburg, SC 29306

Assessor: Ted Shultz Date of Assessment: 1/08/2020
Company: Apex Environmental Management Phone Number: (864) 404-3210
7 Winchester Court
Mauldin, SC 29662

Purpose of Assessment: Demolition Age of Structure: Approximately 50+ years

Building Type: Residential Number of Stories: 1 and partial unfinished attic

Foundation: Brick Crawlspace Approximate Square Footage: 2,600 SF

EXTERIOR BUILDING MATERIALS

- Brick & transite siding with felt
- Multiple layers of roof shingles.
- Wood windows with glazing.
- Wood doors.
- Metal window awnings.
- 300 gallon oil tank.
- 275 gallon oil tank.
- Chimney tar on 2 chimneys – assumed.
- Roof tar.
- Brick exterior grill.
- Approximately 16'x11' metal shed – no suspect materials.

INTERIOR BUILDING MATERIALS

- Wood floors.
- Vinyl composition tile floors.
- Roll vinyl floors.
- Plaster ceilings and walls.
- Wood paneling.
- Carpet.

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-seven (37) 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. Seventy (70) 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). Twenty-five (25) 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 12 SF of green/grey tile located in the bathroom closet.
- Approximately 12 SF of brown tile located under the green/grey tile in the bathroom closet.
- Approximately 12 SF of black mastic under brown tile in the bathroom closet.
- Approximately 4,200 SF of white transite siding.
- Approximately 12 LF of black tar from 2 chimney's (Assumed).
- Approximately 25 SF of flashing tar from 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:

- White transite siding.
- Barn red wood window casing.
- Barn red metal window awning.
- Blue brick foundation.
- Red wood porch ceiling.

Interior:

- Black wood fireplace mantle.

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^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 183 E. Columbia Avenue NIP ACM-LBP

Sampled By: Ted Shultz

Project Location: 183 E. Columbia Avenue, Spartanburg, SC 29306

Project Manager: Ted Shultz

Project Number: 0120-17

Date: 1/7/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roofing (3 shingles, 1 felt)	PLM - NAD	Non-friable	Good	2,500 SF
2			TEM - NAD			
3			TEM - NAD			
4	Windows	Glazing	PLM - NAD	Friable	Good	8 EA
5			TEM - NAD			
6			TEM - NAD			
7	Siding exterior	Transite & felt	PLM - 25% Chrysotile (Transite) PLM - NAD (Felt)	Non-friable	Good	4,200 SF
8			TEM - NAD (Felt)			
9			TEM - NAD (Felt)			
10	back porch closet floor	Roll flooring w/ felt	PLM - NAD	Non-friable	Good	8 SF
11			TEM - NAD			
12			TEM - NAD			
13	Kitchen corner floor	9" x 9" red tile w/ mastic & felt	PLM - NAD	Non-friable	Good	6 SF
14			TEM - NAD			
15			TEM - NAD			
16		Brown 9" x 9" tile w/ mastic & felt	PLM - NAD	Non-friable	Good	6 SF
17			TEM - NAD			
18			TEM - NAD			
19	Kitchen floor	6 layers vinyl flooring some with mastic	PLM - NAD	Non-friable	Damaged	140 SF
20			TEM - NAD			
21			TEM - NAD			
22	Bathroom floor	12" x 12" self stick tan	PLM - NAD	Non-friable	Good	80 SF
23			TEM - NAD			
24			TEM - NAD			

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

Project Name: COS 183 E. Columbia Avenue NIP ACM-LBP

Sampled By: Ted Shultz

Project Location: 183 E. Columbia Avenue, Spartanburg, SC 29306

Project Manager: Ted Shultz

Project Number: 0120-17

Date: 1/7/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
25	Bathroom closet floor	Green tile & mastic over brown tile & mastic	PLM - 2% Chrysotile (gray floor tile), 8% Chrysotile (brown floor tile), 3% Chrysotile (Mastic-black); PLM - NAD (mastic-brown) TEM - NAD (mastic-brown)	Non-friable	Good	12 SF
26						
27						
28	Bathroom walls	Brown mastic behind wall board	PLM - NAD TEM - NAD	Non-friable	Good	100 SF
29						
30						
31	Walls & ceiling throughout	Plaster with felt	PLM - NAD PLM - NAD (plaster); TEM - NAD (felt)	Friable	Good	6,250 SF
32						
33						
34						
35						
36						
37						
Assumed	Back porch roof	Flashing tar	Assumed	Non-friable	Good	25 SF
Assumed	2 Chimney's	Chimney tar	Assumed	Non-friable	Good	12 LF

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 183 E. Columbia Avenue NIP ACM-LBP

Sampled By: Tom Oliver

Project Location: 183 E. Columbia Avenue, Spartanburg, SC 29306

Project Manager: Tom Oliver

Project Number: 0120-17

Date: 1/30/2020

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
54	Exterior	Siding	White	Wood	0.00
55	Exterior	Siding	White	Transite	1.00
56	Exterior	Window Casing	Barn Red	Wood	3.92
57	Exterior	Window Awning	Barn Red	Metal	1.00
58	Exterior	Door	Barn Red	Wood	0.00
59	Exterior	Foundation	Blue	Brick	2.04
60	Exterior	Door Casing	Red	Wood	0.08
61	Exterior	Window	Red	Wood	0.00
62	Exterior	Porch Ceiling	Red	Wood	5.00
63	Exterior	Porch Floor	Blue	Wood	0.02
64	Exterior	Door	White	Wood	0.75
65	Interior	Window	White	Wood	0.92
66	Interior	Window Casing	White	Wood	0.77
67	Interior	Base Board	White	Wood	0.59
68	Interior	door	White	Wood	0.00
69	Interior	Door Frame	White	Wood	0.90
70	Interior	Wall	White	Plaster	0.03
71	Interior	Window	Green	Wood	0.45
72	Interior	Window Casing	Green	Wood	0.64
73	Interior	Base Board	Green	Wood	0.96
74	Interior	Fireplace Mantle	Black	Wood	1.01
75	Interior	Wainscoating	Tan	Wood	0.89
76	Interior	Cabinet	Red	Wood	0.10
77	Interior	Stairs	Brown	Wood	0.00
78	Interior	Door	Green	Wood	0.88

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

EMSL Order: 412000569

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Attention: Rebecca Shultz
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 404-3210

Fax:

Received Date: 01/20/2020 11:38 AM

Analysis Date: 01/23/2020

Collected Date: 01/07/2020

Project: COS 183 E. Columbia 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 1 <small>412000569-0001</small>	Roof - 3 Shingle w/ Felt	Red/Black Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1-Shingle 2 <small>412000569-0001A</small>	Roof - 3 Shingle w/ Felt	Black/Green Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
1-Shingle 3 <small>412000569-0001B</small>	Roof - 3 Shingle w/ Felt	Brown/Black Fibrous Homogeneous	<1% Cellulose 8% Glass	92% Non-fibrous (Other)	None Detected
1-Felt <small>412000569-0001C</small>	Roof - 3 Shingle w/ Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
2-Shingle 1 <small>412000569-0002</small>	Roof - 3 Shingle w/ Felt	Gray/Red/Black Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-Shingle 2 <small>412000569-0002A</small>	Roof - 3 Shingle w/ Felt	Black/Green Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2-Shingle 3 <small>412000569-0002B</small>	Roof - 3 Shingle w/ Felt	Brown/Black Fibrous Heterogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
2-Felt <small>412000569-0002C</small>	Roof - 3 Shingle w/ Felt	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
4 <small>412000569-0003</small>	Windows - Glazing	Tan Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
5 <small>412000569-0004</small>	Windows - Glazing	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
7-Transite <small>412000569-0005</small>	Siding - Transite & Felt	Gray Fibrous Homogeneous		20% Ca Carbonate 55% Non-fibrous (Other)	25% Chrysotile
7-Felt <small>412000569-0005A</small>	Siding - Transite & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
8-Transite <small>412000569-0006</small>	Siding - Transite & Felt				Positive Stop (Not Analyzed)
8-Felt <small>412000569-0006A</small>	Siding - Transite & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
9-Transite <small>412000569-0006B</small>	Siding - Transite & Felt				Positive Stop (Not Analyzed)
10-Flooring <small>412000569-0007</small>	Back Porch Closet - Brown Vinyl Flooring & Felt	Brown/Tan Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:05:46



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: 412000569
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
10-Felt <i>412000569-0007A</i>	Back Porch Closet - Brown Vinyl Flooring & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
11-Flooring <i>412000569-0008</i>	Back Porch Closet - Brown Vinyl Flooring & Felt	Brown/Gray/Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
11-Felt <i>412000569-0008A</i>	Back Porch Closet - Brown Vinyl Flooring & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
13-Floor Tile <i>412000569-0009</i>	Kitchen - 9x9 Red FT W/ Mastic & Felt	Red Non-Fibrous Homogeneous	2% Cellulose	25% Quartz 73% Non-fibrous (Other)	None Detected
13-Mastic <i>412000569-0009A</i>	Kitchen - 9x9 Red FT W/ Mastic & Felt	Brown Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
13-Felt <i>412000569-0009B</i>	Kitchen - 9x9 Red FT W/ Mastic & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
14-Floor Tile <i>412000569-0010</i>	Kitchen - 9x9 Red FT W/ Mastic & Felt	Red Non-Fibrous Homogeneous	1% Cellulose	10% Quartz 89% Non-fibrous (Other)	None Detected
14-Mastic <i>412000569-0010A</i>	Kitchen - 9x9 Red FT W/ Mastic & Felt	Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
14-Felt <i>412000569-0010B</i>	Kitchen - 9x9 Red FT W/ Mastic & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
16-Floor Tile <i>412000569-0011</i>	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Tan Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
16-Mastic <i>412000569-0011A</i>	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Brown/Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
16-Felt <i>412000569-0011B</i>	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
17-Floor Tile <i>412000569-0012</i>	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Tan/Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Quartz 90% Non-fibrous (Other)	None Detected
17-Mastic <i>412000569-0012A</i>	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17-Felt <i>412000569-0012B</i>	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
19-Flooring 1 <i>412000569-0013</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
19-Flooring 2 <i>412000569-0013A</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan/Black Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
19-Flooring 3 <i>412000569-0013B</i>	Kitchen - 6 Layers of Vinyl Flooring	Red/Black/Orange Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
19-Flooring 4 <i>412000569-0013C</i>	Kitchen - 6 Layers of Vinyl Flooring	Tan/White Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:05:46



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: 412000569
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
19-Flooring 5 <i>412000569-0013D</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Beige Fibrous Homogeneous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
19-Mastic <i>412000569-0013E</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
19-Flooring 6 <i>412000569-0013F</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan Fibrous Homogeneous	15% Cellulose 2% Synthetic 1% Glass	82% Non-fibrous (Other)	None Detected
20-Flooring 1 <i>412000569-0014</i> <i>Flooring 2 not present</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Gray/Tan Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
20-Flooring 3 <i>412000569-0014A</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Red/Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
20-Flooring 4 <i>412000569-0014B</i>	Kitchen - 6 Layers of Vinyl Flooring	Gray/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
20-Flooring 5 <i>412000569-0014C</i> <i>No mastic present</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Beige Fibrous Heterogeneous	20% Cellulose 1% Glass	79% Non-fibrous (Other)	None Detected
20-Flooring 6 <i>412000569-0014D</i>	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan Fibrous Heterogeneous	10% Cellulose 1% Synthetic 1% Glass	88% Non-fibrous (Other)	None Detected
22 <i>412000569-0015</i>	Bathroom - SA Tan Tile	Gray/Tan Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
23 <i>412000569-0016</i>	Bathroom - SA Tan Tile	Gray/Tan Non-Fibrous Homogeneous	1% Synthetic	10% Quartz 89% Non-fibrous (Other)	None Detected
25-Gray Floor Tile <i>412000569-0017</i>	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic	Gray/Beige Non-Fibrous Homogeneous		5% Quartz 93% Non-fibrous (Other)	2% Chrysotile
25-Mastic <i>412000569-0017A</i>	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic	Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
25-Brown Floor Tile <i>412000569-0017B</i>	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic	Brown Fibrous Homogeneous		25% Quartz 67% Non-fibrous (Other)	8% Chrysotile
25-Mastic <i>412000569-0017C</i>	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic	Black Fibrous Homogeneous	1% Cellulose	96% Non-fibrous (Other)	3% Chrysotile
26-Gray Floor Tile <i>412000569-0018</i>	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic				Positive Stop (Not Analyzed)
26-Mastic <i>412000569-0018A</i>	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:05:46



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: 412000569
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
26-Brown Floor Tile <i>412000569-0018B</i>	Bathroom Closet - Green FT and Mastic Over Brown FT & Mastic				Positive Stop (Not Analyzed)
26-Mastic <i>412000569-0018C</i>	Bathroom Closet - Green FT and Mastic Over Brown FT & Mastic				Positive Stop (Not Analyzed)
28 <i>412000569-0019</i>	Bathroom - Brown Mastic Behind DW	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
29 <i>412000569-0020</i>	Bathroom - Brown Mastic Behind DW	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
31-Skim Coat <i>412000569-0021</i>	Throughout - Plaster & Felt	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
31-Rough Coat <i>412000569-0021A</i>	Throughout - Plaster & Felt	Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Synthetic <1% Hair	40% Quartz 10% Ca Carbonate 50% Non-fibrous (Other)	None Detected
31-Felt <i>412000569-0021B</i>	Throughout - Plaster & Felt	Tan/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
32-Skim Coat <i>412000569-0022</i>	Throughout - Plaster & Felt	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
32-Rough Coat <i>412000569-0022A</i>	Throughout - Plaster & Felt	Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Hair	40% Quartz 10% Ca Carbonate 50% Non-fibrous (Other)	None Detected
32-Felt <i>412000569-0022B</i>	Throughout - Plaster & Felt	Tan/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
33-Skim Coat <i>412000569-0023</i>	Throughout - Plaster & Felt	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
33-Rough Coat <i>412000569-0023A</i>	Throughout - Plaster & Felt	Tan Non-Fibrous Homogeneous	<1% Cellulose	40% Quartz 10% Ca Carbonate 50% Non-fibrous (Other)	None Detected
33-Felt <i>412000569-0023B</i>	Throughout - Plaster & Felt	Tan/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
34-Skim Coat <i>412000569-0024</i>	Throughout - Plaster & Felt	White Non-Fibrous Homogeneous	<1% Cellulose	15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
34-Rough Coat <i>412000569-0024A</i>	Throughout - Plaster & Felt	Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Hair	40% Quartz 10% Ca Carbonate 50% Non-fibrous (Other)	None Detected
34-Felt <i>412000569-0024B</i>	Throughout - Plaster & Felt	Tan/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
35-Skim Coat <i>412000569-0025</i>	Throughout - Plaster & Felt	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
35-Rough Coat <i>412000569-0025A</i>	Throughout - Plaster & Felt	Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Hair	40% Quartz 10% Ca Carbonate 50% Non-fibrous (Other)	None Detected

Initial report from: 01/24/2020 08:05:46



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: 412000569
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
35-Felt <i>412000569-0025B</i>	Throughout - Plaster & Felt	Tan/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
36-Skim Coat <i>412000569-0026</i>	Throughout - Plaster & Felt	Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
36-Rough Coat <i>412000569-0026A</i>	Throughout - Plaster & Felt	Gray/Tan Non-Fibrous Homogeneous	1% Cellulose 2% Hair	35% Quartz 62% Non-fibrous (Other)	None Detected
36-Felt <i>412000569-0026B</i>	Throughout - Plaster & Felt	Brown/Black Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
37-Skim Coat <i>412000569-0027</i>	Throughout - Plaster & Felt	Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
37-Rough Coat <i>412000569-0027A</i>	Throughout - Plaster & Felt	Gray/Tan Non-Fibrous Homogeneous	1% Cellulose 1% Hair	35% Quartz 63% Non-fibrous (Other)	None Detected

Analyst(s) _____

Cameron Evans (42)

Nicole Shutts (28)

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 08:05:46



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: 412000569

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Attention: Rebecca Shultz
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 404-3210

Fax:

Received Date: 01/20/2020 11:38 AM

Analysis Date: 01/29/2020 - 01/30/2020

Collected Date: 01/07/2020

Project: COS 183 E. Columbia 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 1 412000569-0028	Roof - 3 Shingle w/ Felt	Gray/Red/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
3-Shingle 2 412000569-0029	Roof - 3 Shingle w/ Felt	Black/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
3-Shingle 3 412000569-0030	Roof - 3 Shingle w/ Felt	Brown/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412000569-0031	Roof - 3 Shingle w/ Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6 412000569-0032	Windows - Glazing	Gray/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9-Felt 412000569-0033	Siding - Transite & Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
12-Flooring 412000569-0034	Back Porch Closet - Brown Vinyl Flooring & Felt	Brown/Tan/Black Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
12-Felt 412000569-0035	Back Porch Closet - Brown Vinyl Flooring & Felt	Brown/Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-Floor Tile 412000569-0036	Kitchen - 9x9 Red FT W/ Mastic & Felt	Red Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-Mastic 412000569-0037	Kitchen - 9x9 Red FT W/ Mastic & Felt	Brown/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-Felt 412000569-0038	Kitchen - 9x9 Red FT W/ Mastic & Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
18-Floor Tile 412000569-0039	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Brown/Tan 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 14:38:11



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: 412000569

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Attention: Rebecca Shultz
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 404-3210

Fax:

Received Date: 01/20/2020 11:38 AM

Analysis Date: 01/29/2020 - 01/30/2020

Collected Date: 01/07/2020

Project: COS 183 E. Columbia 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
18-Mastic 412000569-0040	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Brown/Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
18-Felt 412000569-0041	Kitchen - Brown 9x9 FT w/ Mastic & Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21-Flooring 1 412000569-0042	Kitchen - 6 Layers of Vinyl Flooring	Brown/Gray/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21-Flooring 2 412000569-0043	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21-Flooring 3 412000569-0044	Kitchen - 6 Layers of Vinyl Flooring	Red/Black/Orange Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
21-Flooring 4 412000569-0045	Kitchen - 6 Layers of Vinyl Flooring	Tan/White/Green Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
21-Flooring 5 412000569-0046	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
21-Mastic 412000569-0047	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21-Flooring 6 412000569-0048	Kitchen - 6 Layers of Vinyl Flooring	Brown/Tan/Beige Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
24 412000569-0049	Bathroom - SA Tan Tile	Gray/Tan/Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
27-Mastic 412000569-0050	Bathroom Closet - Green FT and Mastic Over Brrown FT & Mastic	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
30 412000569-0051	Bathroom - Brown Mastic Behind DW	Brown/Tan 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 14:38:11



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: 412000569

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Attention: Rebecca Shultz
Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Phone: (864) 404-3210

Fax:

Received Date: 01/20/2020 11:38 AM

Analysis Date: 01/29/2020 - 01/30/2020

Collected Date: 01/07/2020

Project: COS 183 E. Columbia 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-Felt 412000569-0052	Throughout - Plaster & Felt	Tan/Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Scott Combs (19)
Stephen Bennett (6)

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 14:38:11



Asbestos Bulk Building Material Chain of Custody

Pineville, NC 28134

PHONE: (704) 525-2205

FAX: (704) 525-2382

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (Lab Use Only):

412000569

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): Rebecca Shultz		Telephone #: 864-404-3210	
Email Address: rshultz@apex-ehs.com		Fax #:	Purchase Order:
Project Name/Number: OS 183 E. Columbia 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>PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> Standard Addition Method</p>	<p>TEM - Bulk</p> <p><input checked="" type="checkbox"/> TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 (TEM) <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;">Other</p> <p><input type="checkbox"/></p>
---	---

Check For Positive Stop – Clearly Identify Homogenous Group **Date Sampled:** 1/7/20

Samplers Name: T. Shultz **Samplers Signature:**

Sample #	HA #	Sample Location	Material Description
1		Roof	3 Shingle w/ 1 Felt
2		↓	↓
3		↓	↓
4		Windows	Glazing
5		↓	↓
6		↓	↓
7		Siding	Transite & Felt
8		↓	↓
9		↓	↓
			(N)

Client Sample # (s):	-	Total # of Samples:	37
Relinquished (Client):	Date: 1/16/2020	Time: 2:58pm	
Received (Lab):	Date: 1/17/20	Time: 8:45am FAX	
Comments/Special Instructions:		7958 1585 4462	



Asbestos Bulk Building Material Chain of Custody

Pineville, NC 28134

PHONE: (704) 525-2205

FAX: (704) 525-2382

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (Lab Use Only):

412000569

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

Sample #	HA #	Sample Location	Material Description
10		Back Porch Closet	Brown Vinyl Flooring
11		↓	↓
12		↓	↓
13		Kitchen	9x9 Red FT w/Mastic & Felt
14		↓	↓
15		↓	↓
16		Kitchen	Brown 9x9 FT w/Mastic & Felt
17		↓	↓
18		↓	↓
19		Kitchen	6 Layers of Vinyl Flooring
20		↓	↓
21		↓	↓
22		Bathroom	SA Tan Tile
23		↓	↓
24		↓	↓
25		Bathroom Closet	Green FT and Mastic over Brown FT & Mastic
26		↓	↓
27		↓	↓
28		Bathroom	Brown Mastic behind DW
29		↓	↓
30		↓	↓
31 through 37		Throughout	Plaster & Felt
		↓	↓
*Comments/Special Instructions:			(N)

SECTION IV
Photographic Log



Photo 1 – 183 E. Columbia Avenue in Spartanburg, South Carolina.



Photo 2 – Shingled Roof and assumed asbestos black tar on damaged, leaning chimney. 2 chimneys exist.



Photo 3 – Transite exterior siding with felt.



Photo 4 – Two fuel oil tanks behind the house.



Photo 5 – Detached shed in back yard.



Photo 6 – Assumed asbestos back porch roof flashing tar.



Photo 7 – Back porch collapsed roof.



Photo 8 – Back porch closet flooring.



Photo 9 – Bathroom closet flooring.



Photo 10 – Bathroom mastic behind wall-board.



Photo 11 – Bathroom 12"x 12" tan self-stick tile.



Photo 12 – Multiple layers of kitchen flooring.



Photo 13 – Plaster ceiling.



Photo 14 – Self-stick tile flooring in partially finished attic. Same as two layers in kitchen samples.

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED
Asbestos ID Card

Tedman K Shultz



CONSULTBI BI-00971
AIRSAMPLER AS-00355

Expiration Date:
01/16/20
03/06/20

**North Carolina
Asbestos Accreditation**



Tedman K Shultz
7 Winchester Court
Mauldin, SC 29662

123985

EXPIRATION			
03-31-2020			
DOB	SEX	HT	WT
03-10-1972	M	5'10"	240
CLASS		#	EXP
AIR MONITOR		80864	03-20
INSPECTOR		12900	01-20