



Asbestos & Lead Based Paint Assessment

City of Spartanburg
135 Burke 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: 0521-99

October 29, 2021





Apex Project Number 0521-99

October 29, 2021

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

Reference: Asbestos and Lead-Based Paint Assessment Services
135 Burke 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.

Stephanie Hamby
Project Manager

Tom Oliver
Vice President

Appendices

7 Winchester Court
Mauldin, SC 29662
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ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
135 BURKE AVENUE
SPARTANBURG, SOUTH CAROLINA 29306**

APEX PROJECT NO. 0521-99

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS EVALUATION REPORT APEX PROJECT NUMBER: 0521-99
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Date:	10/29/2021	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:	135 Burke Avenue Spartanburg, SC 29306		
Assessor:	Stephanie Hamby	Date of Assessment:	9/9 & 9/27/2021
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 90 years
Building Type:	Residential	Number of Stories:	1
Foundation:	Basement, brick	Approximate Square Footage	1,400 SF

EXTERIOR BUILDING MATERIALS

- Gable roof with one layer of shingle and felt.
- White transite siding over felt.
- Wooden windows with glazing.
- No glazing on basement windows.
- Wooden door with no caulk.
- Cedar shake on gable walls.
- Damage to the porch floor.
- Tar on 2 chimneys – assumed positive to be ACM.

INTERIOR BUILDING MATERIALS

- Drywall with joint compound walls and ceilings.
- Household debris and items throughout.
- Large hole in bathroom floor.
- Multiple types & layers of vinyl flooring with & without mastics/adhesives throughout.

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-six (46) 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-five (75) 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). Thirty (30) samples were analyzed using TEM.

Lead-Based Paint

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

RESULTS

Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. It should be noted that 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.

A portion of the side porch was observed to have a large hole at the side entrance. The bathroom floor was observed to have a large hole. The building was fully assessed; however, if additional ACM is discovered during demolition activities, Apex recommends that work activities stop until the suspect building materials may be sampled and analyzed.

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

- Approximately 236 SF middle gray speckle roll vinyl floor in the in the middle right room.
- Approximately 1,500 SF of transite siding.
- Approximately 6 LF of tar on two chimneys – 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 ($30 \mu\text{g}/\text{m}^3$) 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:

- White wooden porch columns
- White wooden porch headers
- White wooden porch rails
- White wooden exterior window frames
- White wooden exterior window sills
- White wooden exterior windows
- White wooden exterior door frames
- White wooden siding located on the back porch

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. 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

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

Occupational Safety and Health Administration Lead Regulations apply to actions initiated on lead containing materials. This regulation applies to lead concentrations greater than the analytical limit of detection. This regulation sets exposure levels on airborne lead and does not reference the percent lead in paint. Therefore, initial personal air monitoring should be conducted on workers performing work on surfaces which have a lead concentration of 0.1 mg/ cm² or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter (µg/m³) 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 135 Burke Avenue ACM-LBP

Sampled By: T. Shultz & S. Hamby

Project Location: 135 Burke Avenue, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/9/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	1 layer of shingles, 1 layer of felt	PLM - NAD	Non-Friable	Good	1,910 SF
2			TEM - NAD			
3						
4	Siding	White transite with felt	PLM - 20% chry (transite), NAD (felt)	Non-Friable	Good	1,500 SF
5			TEM - NAD (felt)			
6						
7	Exterior windows	White glazing	PLM - NAD	Non-Friable	Damaged	18 EA
8			TEM - NAD			
9						
10	Walls and ceilings throughout	Plaster	PLM - NAD	Friable	Good	3,500 SF
11						
12						
13						
14						
15						
16						
17	Front right room	Tan and brown roll vinyl over brown and red vinyl flooring	PLM - NAD	Non-Friable	Significantly damaged	178 SF
18			TEM - NAD			
19						
20	Front left room	Pink and brown speckle roll vinyl flooring	PLM - NAD	Non-Friable	Good	215 SF
21			TEM - NAD			
22						

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

Project Name: COS 135 Burke Avenue ACM-LBP

Sampled By: T. Shultz & S. Hamby

Project Location: 135 Burke Avenue, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/9/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
23	Middle right room	Small brown square pattern roll vinyl over gray speckle roll vinyl over green/brown with red bottom flooring	PLM - 15% chyr (gray speckle roll vinyl), <1% chry (mastic gray speckle roll vinyl)	Non-Friable	Good	236 SF
24						
25			TEM - NAD			
26	Middle left room	Brown pebble pattern roll vinyl flooring	PLM - NAD	Non-Friable	Good	208 SF
27						
28			TEM - NAD			
29	Kitchen	Yellow large square pattern with blue felt roll vinyl	PLM - NAD	Non-Friable	Good	125 SF
30						
31			TEM - NAD			
32	Kitchen	Yellow back splash	PLM - NAD	Non-Friable	Good	25 SF
33						
34			TEM - NAD			
35	Left back room	Multi-color speckled roll vinyl flooring	PLM - NAD	Non-Friable	Good	181 SF
36						
37			TEM - NAD			
38	Bathroom	White square with small black diamond pattern roll vinyl	PLM - NAD	Non-Friable	Good	120 SF
39						
40			TEM - NAD			

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

Project Name: COS 135 Burke Avenue ACM-LBP

Sampled By: T. Shultz & S. Hamby

Project Location: 135 Burke Avenue, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/9/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
41	Enclosed back porch	Brown brick pattern roll vinyl flooring	PLM - NAD	Non-Friable	Good	86 SF
42			TEM - NAD			
43						
44	Basement HVAC	HVAC tape	PLM - NAD	Non-Friable	Good	30 LF
45			TEM - NAD			
46						
Assumed	2 Chimneys	Tar on 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 135 Burke Avenue ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 135 Burke Avenue, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/28/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
1	Standardization				184.00/Pass
2	Calibration				1.16
3	Calibration				1.17
4	Calibration				1.15
5	Exterior	Stair Platform	White	Concrete	0.00
6		Stair	Red	Brick	0.00
7		Porch Trim	White	Wood	0.00
8		Porch Column	White	Wood	>5.00
9		Porch Header	White	Wood	>5.00
10		Porch Rail	White	Wood	>5.00
11		Porch Awning	White	Metal	0.00
12		Siding	White	Transite	0.00
13		Porch Roof	Blue	Wood	0.28
14		Porch Door	Blue	Wood	0.21
15		Porch Floor	Blue	Wood	0.01
16		Window Frame	White	Wood	4.59
17		Window Sill	White	Wood	>5.00
18		Window	White	Wood	1.38
19		Door Frame	White	Wood	4.58
20	Door	Brown	Wood	0.06	
21	Front Right Room	Wall	White	Plaster	0.30
22		Baseboard	Brown	Wood	0.13
23		Window	Brown	Wood	0.13
24		Window Frame	Brown	Wood	0.09
25		Window Sill	Brown	Wood	0.12

FIELD DATA SHEET XRF LBP ANALYSIS

Project Name: COS 135 Burke Avenue ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 135 Burke Avenue, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 9/28/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
26	Front Left Room	Door	Brown	Wood	0.06
27		Door Frame	Brown	Wood	0.13
28		Mantle	Brown	Wood	0.08
29	Middle Left Room	Floor	Brown	Wood	0.00
30		Fireplace	Brown	Metal	0.02
31		Fireplace	Red	Concrete	0.02
32		Fireplace	Red	Brick	0.02
33	Bathroom	Tub	White	Cast Iron	0.23
34	Back Porch	Siding	White	Wood	4.06
35		Door	White	Wood	0.14
36		Door Frame	White	Wood	0.11
37		Cabinet	White	Wood	0.06
38	Kitchen	Cabinet	White	Wood	0.05
39	Dining Room	China Cabinet	Brown	Wood	0.08
40	Middle Right Room	Ceiling	White	Plaster	Insufficient
41		Ceiling	White	Plaster	0.01
Bold = LBP		FFM = Factory Finished Metal		FFV = Factory Finished Vinyl	

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

EMSL Order: 412108154

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Phone: (864) 918-1433

Fax:

Received Date: 09/09/2021 9:45 AM

Analysis Date: 09/15/2021 - 09/16/2021

Collected Date:

Project: 0521-99 COS 135 Burke 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>412108154-0001</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Heterogeneous	10% Glass	10% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
1-Felt <small>412108154-0001A</small>	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
2-Shingle <small>412108154-0002</small>	Roof - 1 Shingle, 1 Felt	Black Non-Fibrous Homogeneous	10% Glass	10% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
2-Felt <small>412108154-0002A</small>	Roof - 1 Shingle, 1 Felt	Black Non-Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
4-Transite <small>412108154-0003</small>	Siding - Transite w/ Felt	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
4-Felt <small>412108154-0003A</small>	Siding - Transite w/ Felt	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
5-Transite <small>412108154-0004</small>	Siding - Transite w/ Felt				Positive Stop (Not Analyzed)
5-Felt <small>412108154-0004A</small>	Siding - Transite w/ Felt	Black Non-Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
6-Transite <small>412108154-0005</small>	Siding - Transite w/ Felt				Positive Stop (Not Analyzed)
7 <small>412108154-0006</small>	Exterior Windows - White Glazing	Gray/Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
8 <small>412108154-0007</small>	Exterior Windows - White Glazing	Gray/Tan Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
10-Skim Coat <small>412108154-0008</small>	Walls & Ceilings - Plaster	White Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
10-Rough Coat <small>412108154-0008A</small>	Walls & Ceilings - Plaster	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
11 <small>412108154-0009</small>	Walls & Ceilings - Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
12-Skim Coat <small>412108154-0010</small>	Walls & Ceilings - Plaster	White Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
12-Rough Coat <small>412108154-0010A</small>	Walls & Ceilings - Plaster	Tan Non-Fibrous Homogeneous	<1% Hair	20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected

Initial report from: 09/15/2021 15:59:50



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: 412108154
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
13-Skim Coat <small>412108154-0011</small>	Walls & Ceilings - Plaster	White Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
13-Rough Coat <small>412108154-0011A</small>	Walls & Ceilings - Plaster	Tan Non-Fibrous Homogeneous	<1% Hair	20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
14-Skim Coat <small>412108154-0012</small>	Walls & Ceilings - Plaster	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
14-Rough Coat <small>412108154-0012A</small>	Walls & Ceilings - Plaster	Gray Non-Fibrous Homogeneous	2% Hair	25% Quartz 73% Non-fibrous (Other)	None Detected
15-Skim Coat <small>412108154-0013</small>	Walls & Ceilings - Plaster	Gray/White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
15-Rough Coat <small>412108154-0013A</small>	Walls & Ceilings - Plaster	Gray/Tan Non-Fibrous Homogeneous	2% Hair	20% Quartz 78% Non-fibrous (Other)	None Detected
16-Skim Coat <small>412108154-0014</small>	Walls & Ceilings - Plaster	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
16-Rough Coat <small>412108154-0014A</small>	Walls & Ceilings - Plaster	Gray Non-Fibrous Homogeneous	2% Hair	20% Quartz 78% Non-fibrous (Other)	None Detected
17-Top Flooring <small>412108154-0015</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Gray/Tan Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
17-Mastic <small>412108154-0015A</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
17-Bottom Flooring <small>412108154-0015B</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Various Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
17-Mastic <small>412108154-0015C</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Brown Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
18-Top Flooring <small>412108154-0016</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Tan Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
18-Mastic <small>412108154-0016A</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
18-Bottom Flooring <small>412108154-0016B</small>	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Various Non-Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (Other)	None Detected

Initial report from: 09/15/2021 15:59:50



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EMSL Order: 412108154
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
18-Mastic 412108154-0016C	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Tan Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
20-Flooring 412108154-0017	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Various Fibrous Heterogeneous	20% Cellulose 2% Synthetic	78% Non-fibrous (Other)	None Detected
20-Backing 412108154-0017A	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-Mastic 412108154-0017B	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-Flooring 412108154-0018	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Brown/Pink Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
21-Backing 412108154-0018A	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Green Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
21-Mastic 412108154-0018B	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
23-Top Flooring 412108154-0019	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Gray/Tan Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
23-Mastic 412108154-0019A	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Middle Flooring 412108154-0019B	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Gray Fibrous Heterogeneous		85% Non-fibrous (Other)	15% Chrysotile
23-Mastic 412108154-0019C	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Bottom Flooring 412108154-0019D	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Various Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
23-Mastic 412108154-0019E	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 09/15/2021 15:59:50



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: 412108154
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
24-Top Flooring <small>412108154-0020</small>	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Gray/Tan Non-Fibrous Homogeneous	15% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected
24-Mastic <small>412108154-0020A</small>	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-Middle Flooring <small>412108154-0020B</small>	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile				Positive Stop (Not Analyzed)
24-Mastic <small>412108154-0020C</small>	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
<i>Possible Contamination</i>					
24-Bottom Flooring <small>412108154-0020D</small>	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Red/Green Non-Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
24-Mastic <small>412108154-0020E</small>	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinyl, Over Green/Red Tile	Tan Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
26 <small>412108154-0021</small>	Middle Left Room - Floor - Brown Pebble Roll Vinyl	Gray/Tan Fibrous Heterogeneous	40% Cellulose 5% Synthetic	55% Non-fibrous (Other)	None Detected
27 <small>412108154-0022</small>	Middle Left Room - Floor - Brown Pebble Roll Vinyl	Gray/Tan Non-Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
29-Top Flooring <small>412108154-0023</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Gray/Yellow Fibrous Heterogeneous	20% Cellulose 1% Glass	79% Non-fibrous (Other)	None Detected
29-Mastic <small>412108154-0023A</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
29-Bottom Flooring <small>412108154-0023B</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Black/Blue Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
29-Mastic <small>412108154-0023C</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Top Flooring <small>412108154-0024</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Tan/White Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
30-Mastic <small>412108154-0024A</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
30-Bottom Flooring <small>412108154-0024B</small>	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Black/Blue Non-Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected

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EMSL Order: 412108154
Customer ID: AXEM25
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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
30-Mastic 412108154-0024C	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-Backsplash 412108154-0025	Kitchen Backsplash - Yellow Backsplash w/ Black Felt	Black/Yellow Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
32-Mastic 412108154-0025A	Kitchen Backsplash - Yellow Backsplash w/ Black Felt	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33-Backsplash 412108154-0026	Kitchen Backsplash - Yellow Backsplash w/ Black Felt	Black/Yellow Non-Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
33-Mastic 412108154-0026A	Kitchen Backsplash - Yellow Backsplash w/ Black Felt	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35-Flooring 412108154-0027	Left Back Room Floor - Multi-Speckled Roll Vinyl	Various Fibrous Heterogeneous	20% Cellulose 5% Synthetic	75% Non-fibrous (Other)	None Detected
35-Backing 412108154-0027A	Left Back Room Floor - Multi-Speckled Roll Vinyl	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35-Mastic 412108154-0027B	Left Back Room Floor - Multi-Speckled Roll Vinyl	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-Flooring 412108154-0028	Left Back Room Floor - Multi-Speckled Roll Vinyl Flooring	Gray Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
36-Backing 412108154-0028A	Left Back Room Floor - Multi-Speckled Roll Vinyl Flooring	Blue/Green Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
36-Mastic 412108154-0028B	Left Back Room Floor - Multi-Speckled Roll Vinyl Flooring	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38 412108154-0029	Bathroom Floor - White Square w/ Small Black Square Pattern Roll Vinyl	White Non-Fibrous Heterogeneous	2% Glass	20% Ca Carbonate 78% Non-fibrous (Other)	None Detected
39 412108154-0030	Bathroom Floor - White Square w/ Small Black Square Pattern Roll Vinyl	Gray/White Non-Fibrous Homogeneous	5% Glass	5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
41-Flooring 412108154-0031	Enclosed Back Porch - Brown Brick Roll Vinyl	Brown/Gray Fibrous Heterogeneous	20% Cellulose 2% Glass	78% Non-fibrous (Other)	None Detected
41-Mastic 412108154-0031A	Enclosed Back Porch - Brown Brick Roll Vinyl	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
42-Flooring 412108154-0032	Enclosed Back Porch - Brown Brick Roll Vinyl	Gray/White Non-Fibrous Homogeneous	15% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected
42-Mastic 412108154-0032A	Enclosed Back Porch - Brown Brick Roll Vinyl	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
44 412108154-0033	Basement HVAC - HVAC Tape	White Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected

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EMSL Order: 412108154
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
45	Basement HVAC - HVAC Tape	Gray Non-Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected
412108154-0034		Homogeneous			

Analyst(s)

Brant Alyea (36)

Ky Nguyen (39)

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

Initial report from: 09/15/2021 15:59:50



EMSL Analytical, Inc.

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EMSL Order: 412108154

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Phone: (864) 918-1433

Fax:

Received Date: 09/09/2021 9:45 AM

Analysis Date: 09/22/2021

Collected Date:

Project: 0521-99 COS 135 Burke 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 412108154-0035	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 412108154-0036	Roof - 1 Shingle, 1 Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6-Felt 412108154-0037	Siding - Transite w/ Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9 412108154-0038	Exterior Windows - White Glazing	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
19-Top Flooring 412108154-0039	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Gray/Tan Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
19-Mastic 412108154-0040	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
19-Bottom Flooring 412108154-0041	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Various Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
19-Mastic 412108154-0042	Front Right Room - Floor - Tan & Brown Roll Vinyl & Brown/Red Vinyl 2nd Layer	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
22-Flooring 412108154-0043	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Gray/Pink Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
22-Backing 412108154-0044	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
22-Mastic 412108154-0045	Front Left Room - Floor - Pink & Brown Spec Roll Vinyl w/ Green Backing	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 09/23/2021 08:36:43



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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EMSL Order: 412108154

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Phone: (864) 918-1433

Fax:

Received Date: 09/09/2021 9:45 AM

Analysis Date: 09/22/2021

Collected Date:

Project: 0521-99 COS 135 Burke 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
25-Top Flooring 412108154-0046	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinl, Over Green/Red Tile	Gray/Tan Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
25-Mastic 412108154-0047	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinl, Over Green/Red Tile	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
25-Mastic 412108154-0048	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinl, Over Green/Red Tile	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
25-Bottom Flooring 412108154-0049	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinl, Over Green/Red Tile	Various Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
25-Mastic 412108154-0050	Middle Right Room - Floor - Small Brown Square Vinyl over Gray Spec Roll Vinl, Over Green/Red Tile	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
28 412108154-0051	Middle Left Room - Floor - Brown Pebble Roll Vinyl	Brown Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
31-Top Flooring 412108154-0052	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Tan/White Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
31-Mastic 412108154-0053	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
31-Bottom Flooring 412108154-0054	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Black/Blue Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
31-Mastic 412108154-0055	Kitchen Floor - Yellow Large Square Pattern w/ Blue Felt	Brown/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 09/23/2021 08:36:43



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Collected Date:

Project: 0521-99 COS 135 Burke 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
34-Backsplash 412108154-0056	Kitchen Backsplash - Yellow Backsplash w/ Black Felt	Black/Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
34-Mastic 412108154-0057	Kitchen Backsplash - Yellow Backsplash w/ Black Felt	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
37-Flooring 412108154-0058	Left Back Room Floor - Multi-Speckled Roll Vinyl Flooring	Various Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
37-Backing 412108154-0059	Left Back Room Floor - Multi-Speckled Roll Vinyl Flooring	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
37-Mastic 412108154-0060	Left Back Room Floor - Multi-Speckled Roll Vinyl Flooring	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
40 412108154-0061	Bathroom Floor - White Square w/ Small Black Square Pattern Roll Vinyl	White/Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
43-Flooring 412108154-0062	Enclosed Back Porch - Brown Brick Roll Vinyl	Brown Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
43-Mastic 412108154-0063	Enclosed Back Porch - Brown Brick Roll Vinyl	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
46 412108154-0064	Basement HVAC - HVAC Tape	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Derrick Young (30)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 09/23/2021 08:36:43



EMSL Order Number / Lab Use Only

Pineville, NC 28134

PHONE: (704) 525-2205

EMAIL: charlottelab@EMSL.com

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

412108154

Customer Information	Customer ID:			Billing Information	Billing ID:		
	Company Name: Apex Environmental Management				Company Name: Apex Environmental Management		
	Contact Name: Stephanie Hamby				Billing Contact: Stephanie Hamby		
	Street Address: 7 Winchester Court				Street Address: 7 Winchester Court		
	City, State, Zip: Mauldin SC 29662		Country: US		City, State, Zip: Mauldin SC 29662		Country: US
	Phone: 864-918-1433				Phone: 864-918-1433		
Email(s) for Report: shamby@apex-ehs.com			Email(s) for Invoice:				

Project Information		
Project Name/No: 0521-99 COS 135 Burke Ave		Purchase Order:
EMSL LIMS Project ID: <small>(if applicable, EMSL will provide)</small>	US State where samples collected: SC	State of Connecticut (CT) must select project location: <input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)

Sampled By Name: Stephanie Hamby	Sampled By Signature:	No. of Samples in Shipment: 46
Turn-Around-Time (TAT)		
<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

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

<p>PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p><input type="checkbox"/> POINT COUNT</p> <p style="margin-left: 20px;"><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)</p> <p>POINT COUNT w/ GRAVIMETRIC</p> <p style="margin-left: 20px;"><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p> <p><input type="checkbox"/> NYS 198.1 (Friable - NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY)</p> <p><input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)</p>	<p style="text-align: center;">Test Selection</p> <p style="text-align: right;">TEM - Bulk</p> <p><input checked="" type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY)</p> <p><input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%)</p> <p style="text-align: right;">Other Tests (please specify)</p> <p><input checked="" type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)</p>
---	--

Sample Number	HA Number	Sample Location	Material Description
1		Roof	1 Shingle, 1 Felt
2			
3			
4		Siding	Transit w/ felt
5			
6			
7		Exterior Windows	White glazing
8			
9			
10		Walls & ceiling	Plaster

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: Fed Ex	Sample Condition Upon Receipt:
Relinquished by: A Hamby	Received by: Kyle Wilson
Date/Time: 9-8-21 5pm	Date/Time: 9/9/21 9:45am
Relinquished by:	Received by: HX 7747 4871 3677
Date/Time:	Date/Time:

Controlled Document - COC-01 Asbestos Bulk R6 05/06/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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



Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

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10801 Southern Loop Blvd

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

8154

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

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

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	HA Number	Sample Location	Material Description
11		Walls & Ceiling	Plaster
12		┌ └	┌ └
13			
14			
15			
16			
17		Front right room -	Tan & brown roll vinyl
18		floor	& Brown/red vinyl
19		┌	└
20		Front left room -	Pink & brown spec
21		floor	roll vinyl w/ green backing
22		┌	└
23		Middle right room -	Small brown square
24		floor	vinyl over gray spec
25		┌	└
26		Middle left Room -	Brown Pebble
27		floor	roll vinyl
28		┌	└
29		Kitchen Floor -	Yellow large square
30		┌	└
31			pattern w/ blue felt
32		Kitchen Back splash	Yellow back splash
33		┌	└
34			w/ black felt
35		Left back room floor	multispeckled roll vinyl

Method of Shipment: Fed Ex		Sample Condition Upon Receipt:	
Relinquished by: A. Day	Date/Time: 9-8-21 5pm	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - CDC-01 Asbestos Bulk R6 05/06/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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Asbestos Bulk Building Materials - Chain of Custody

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Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	HA Number	Sample Location	Material Description
36		Left back room - floor	multi speckled roll
37		└	vinyl flooring
38		Bathroom floor	white square w/small
39			black square pattern
40		└	roll vinyl
41		Enclosed back porch	Brown brick roll
42		└	vinyl
43			
44		Basement HVAC	HVAC tape
45		└	
46			

Method of Shipment: Fed Ex		Sample Condition Upon Receipt:	
Relinquished by: <i>A. Kelly</i>	Date/Time: 9-22-15 am	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-01 Asbestos Bulk R8 05/06/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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

SECTION IV
Photographic Log



Photo 1 – 135 Burke Avenue in Spartanburg, South Carolina 29306



Photo 2 – One layer of shingle and felt



Photo 3 – White transite with felt

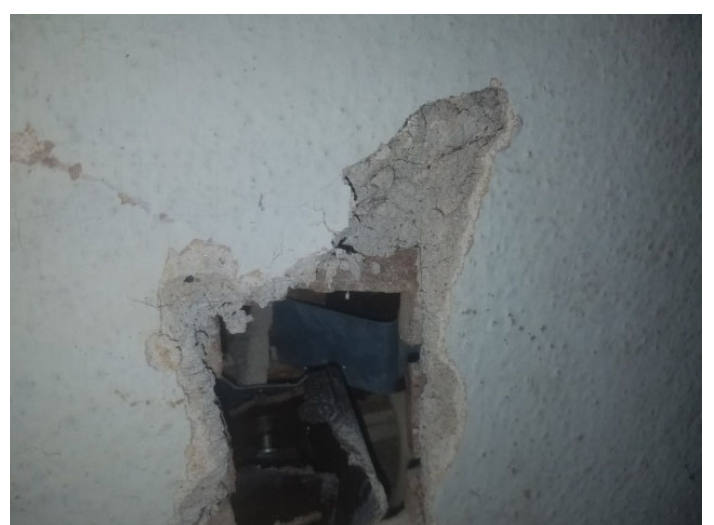


Photo 4 – Plaster throughout walls



Photo 5 – Plaster throughout ceilings



Photo 6 – Glazing found on wood windows



Photo 7 – Tan and brown roll vinyl flooring with second layer of tan and red flooring in front right room



Photo 8 – Pink and brown speckle roll vinyl flooring in front left room



Photo 9 – Brown square vinyl flooring over gray spec roll vinyl over third layer with red bottom in middle room



Photo 10 – Brown pebble pattern roll vinyl in middle left room



Photo 11 – Yellow large square pattern with blue felt in kitchen



Photo 12 – Back splash located in the kitchen



Photo 13 – Multi-color speckled roll vinyl flooring in left back room



Photo 14 – White square with black diamond patterned roll vinyl in bathroom



Photo 15 – Brown brick roll vinyl flooring in enclosed back porch



Photo 16 – HVAC tape in the basement area



Photo 17 – Left chimney with tar assumed ACM.



Photo 18 - Right chimney with tar assumed ACM.

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED
Asbestos ID Card

STEPHANIE HAMBY



AIRSAMPLER
CONSULTBI

AS-000632
BI-01894

Expiration Date:
08/05/22
01/12/22