



Asbestos & Lead Based Paint Assessment

City of Spartanburg
441 Tryon Street
Spartanburg, South Carolina 29301

Prepared for:

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

Prepared by:

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

Project Number: 0521-99

August 26, 2021





Apex Project Number 0521-99

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

Reference: Asbestos and Lead-Based Paint Assessment Services
441 Tryon Street
Spartanburg, South Carolina 29301

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

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
441 TRYON STREET
SPARTANBURG, SOUTH CAROLINA 29301**

APEX PROJECT NO. 0521-99

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SECTION I
Asbestos & Lead Evaluation Report

**ASBESTOS EVALUATION REPORT
APEX PROJECT NUMBER: 0521-99**

Date:	8/26/2021	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:	441 Tryon Street Spartanburg, SC 29301		
Assessor:	Stephanie Hamby	Date of Assessment:	8/11/2021
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 120 years
Building Type:	Residential	Number of Stories:	1
Foundation:	Brick piers	Approximate Square Footage	1,200 SF

EXTERIOR BUILDING MATERIALS

- Pitched wooden roof with two layers of shingles and Tyvek wrap without felt.
- Wooden siding.
- Some windows are missing from the residence. 5 wooden windows with glazing. 3 vinyl windows without glazing.
- Roll of felt roofing paper located on the side of the residence.
- Front porch has wood floor boards that are unstable.
- Vinyl door with no caulk or glazing.

INTERIOR BUILDING MATERIALS

- Building material debris throughout.
- Unfinished sheets of drywall located in living room.
- Plaster with finish and texture located on ceilings and walls throughout. Damaged ceiling texture located on floor throughout.
- Wooden floors throughout.
- Multiple types and layers of vinyl floors with & without mastics throughout.
- Living room floor is damaged near front entrance.
-

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. Fifty (50) bulk samples were collected during the survey and submitted to EMSL in Pineville, North Carolina for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/M4-82-020, Dec. 1982). EMSL participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Their NVLAP accreditation number is 200841-0. EPA regulations require that multiple samples of each homogeneous material be collected for laboratory analysis. Fifty-six (56) samples were analyzed due to layering by PLM and positive stop methods. In accordance with South Carolina Regulation 61-86.1, non-friable organically bound materials that are reported to be non-asbestos containing by PLM analysis must also be analyzed by Transmission Electron Microscopy (TEM). Seventeen (17) samples were analyzed using TEM.

Lead-Based Paint

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

RESULTS

Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. OSHA defines ACM as a material containing detectable amounts of asbestos. Provided below is a general discussion of the asbestos containing materials identified in the residence. A specific *PLM and TEM Data Table* is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

The front porch floor boards were observed to be unstable and the living room floor was observed to have a hole at the front entrance. Building material and household debris was observed throughout the building. 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:

- No ACM was identified in the samples collected.

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.

One surface in the building tested positive for lead in excess of the regulatory definition:

- Exterior gray wooden siding.

RECOMMENDATIONS AND DISCUSSION

Asbestos Containing Materials

No ACM was identified in the sampled areas therefore Apex has no recommendations for asbestos removal.

This report summarizes our evaluation of the conditions observed at the site. The findings prepared by Apex are based upon testing performed at 441 Tryon Street in Spartanburg, South Carolina. Additional ACM may exist (undetected) in other areas due to their inaccessibility or due to the limited nature of our testing. Our assessment procedures and recommendations are based on the guidelines presented in EPA, State of South Carolina or OSHA asbestos regulations.

Lead-Based Paint

Currently the Environmental Protection Agency (EPA) define LBP as paint containing greater than $1.0 \text{ milligrams per square centimeter (mg}/\text{cm}^2)$ lead or in excess of, or equal to, 0.5 percent lead.

Changes to South Carolina 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

City of Spartanburg
441 Tryon Street
Apex Project No. 0521-99
August 26, 2021

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 ($\mu\text{g}/\text{m}^3$) 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 441 Tryon Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 441 Tryon Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 8/11/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	2 layers of shingles	PLM - NAD	Non-Friable	Good	1,400 SF
2			TEM - NAD			
3						
4	Left side of building on ground	Black felt paper	PLM - NAD	Non-Friable	Good	1 roll
5			TEM - NAD			
6						
7	Window exterior	White glazing	PLM - NAD	Non-Friable	Damaged	6 EA
8			TEM - NAD			
9						
10	Interior wood window in living room	White caulk	PLM - NAD	Non-Friable	Good	1 EA
11			TEM - NAD			
12						
13	Ceilings and walls throughout	Plaster, ceiling/wall texture, and finishing	PLM - NAD	Friable	Significantly damaged	1,950 SF
14						
15						
16						
17						
18	Sporadically throughout (building debris)	Unfinished drywall panels stacked in house	PLM - NAD	Friable	Good	420 SF
19						
20						
21	Living room and top floor of kitchen	Dark gray with specks roll vinyl flooring - no mastic	PLM - NAD	Non-Friable	Good	150 SF
22			TEM - NAD			
23						

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

Project Name: COS 441 Tryon Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 441 Tryon Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 8/11/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24	Bathroom floor (top layer)	Cream roll vinyl flooring with no mastic	PLM - NAD	Non-Friable	Good	60 SF
25			TEM - NAD			
26						
27	Bathroom floor (2nd layer under cream roll vinyl flooring)	12"x12" self-stick wood square pattern	PLM - NAD	Non-Friable	Good	60 SF
28			TEM - NAD			
29						
30	Bathroom (under wood)	White with blue flower roll vinyl flooring with mastic & leveling compound	PLM - NAD	Non-Friable	Good	60 SF
31			TEM - NAD			
32						
33	Kitchen (under first layer of wood)	12"x12" self-stick wood square pattern	PLM - NAD	Non-Friable	Good	300 SF
34			TEM - NAD			
35						
36	Kitchen (floor patch in front of sink)	Tan square pattern roll viny flooring with no mastic	PLM - NAD	Non-Friable	Good	75 SF
37			TEM - NAD			
38						
39	Kitchen counter	gray roll vinyl flooring with adhesive	PLM - NAD	Non-Friable	Good	10 SF
40			TEM - NAD			
41						
42	Kitchen (floor patch)	Tan speckled roll vinyl flooring with adhesive	PLM - NAD	Non-Friable	Good	20 SF
43			TEM - NAD			
44						

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

Project Name: COS 441 Tryon Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 441 Tryon Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 8/11/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
45	Kitchen (floor patch)	Tan square diamond pattern roll vinyl flooring with adhesive	PLM - NAD	Non-Friable	Good	20 SF
46			TEM - NAD			
47						
48	Living room	2'x4' ceiling tile	PLM - NAD	Friable	Damaged	8 SF
49						
50						

NAD = No Asbestos Detected
Bold = Positive For Asbestos

LF = Linear Feet
 SF = Square Feet

EA = Each
 Chry = Chrysotile

**FIELD DATA SHEET
XRF LBP ANALYSIS**

Project Name: COS 441 Tryon Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 441 Tryon Street, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 8/11/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
1		Standardization			184.00/Pass
2		Calibration			1.09
3		Calibration			1.07
4		Calibration			1.09
5	Exterior	Porch stairs	Gray	Wood	0.00
6		Porch floor	Gray	Wood	0.00
7		Porch column	Gray	Wood	0.00
8		Porch ceiling framing	White	Wood	0.00
9		Door casing	White	Wood	0.00
10		Siding	Gray	Wood	3.73
11		Porch bottom trim	Gray	Wood	0.00
12		Corner trim	Gray	Wood	0.59
13		Window casing	White	Wood	0.00
14		Window sill	Gray	Wood	0.18
15		Lattice frame	White	Wood	0.00
16		Siding	Blue	Wood	0.87
17		Door	White	Vinyl	0.00
18		Interior	Wall	Gray	Plaster
19	Wall		White	Plaster	0.00
20	Window		White	Wood	0.00
21	Base board		White	Wood	0.17
22	Window casing		Purple	Wood	0.16
23	Floor		Brown	Wood	0.20
24	Door casing		White	Wood	0.04
25	Wall		White	Wood	0.00

**FIELD DATA SHEET
XRF LBP ANALYSIS**

Project Name: COS 441 Tryon Street ACM-LBP

Sampled By: Stephanie Hamby

Project Location: 441 Tryon Street, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 8/11/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
26	Interior	Wall	White	Wood panel	0.16
27		Window apron	White	Wood	0.20
28		Kitchen cabinets	White	Wood	0.04
29		Wall	Brown	Wood panel	0.00
30		Wall	White	Beadboard	0.00
31		Wall	Red	Wood panel	0.00
40	Calibration				1.10
41	Calibration				1.22
42	Calibration				1.07

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: 412107089

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: 08/12/2021 9:00 AM

Analysis Date: 08/18/2021

Collected Date:

Project: 0521-99 COS 441 Tryon St. ACM (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 % Type
			% Fibrous	% Non-Fibrous	
1-Shingle 1 412107089-0001	Roof - 2 Layers of Shingles	Black Non-Fibrous Homogeneous	5% Glass	15% Quartz 15% Ca Carbonate 65% Non-fibrous (Other)	None Detected
1-Shingle 2 412107089-0001A	Roof - 2 Layers of Shingles	Gray/Black Fibrous Heterogeneous	6% Glass	15% Quartz 15% Ca Carbonate 64% Non-fibrous (Other)	None Detected
2-Shingle 1 412107089-0002	Roof - 2 Layers of Shingles	Various Fibrous Heterogeneous	10% Glass	10% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
2-Shingle 2 412107089-0002A	Roof - 2 Layers of Shingles	Various Fibrous Heterogeneous	10% Glass	10% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
4 412107089-0003	Side of Building on Ground - Black Felt Paper	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
5 412107089-0004	Side of Building on Ground - Black Felt Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
7 412107089-0005	Ext. Window - White Glazing	Tan/White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
8 412107089-0006	Ext. Window - White Glazing	Gray/White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
10 412107089-0007	Int. Window - Left Side L.R. - White Caulk	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
11 412107089-0008	Int. Window - Left Side L.R. - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13-Textured Surfacing 412107089-0009	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		20% Ca Carbonate 10% Mica 70% Non-fibrous (Other)	None Detected
13-Skim Coat 412107089-0009A	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
13-Rough Coat 412107089-0009B	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	Gray Non-Fibrous Homogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (Other)	None Detected

Initial report from: 08/19/2021 08:14:59



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: 412107089
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
14-Textured Surfacing 412107089-0010	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		20% Ca Carbonate 10% Micaceous Flakes 70% Non-fibrous (Other)	None Detected
14-Skim Coat 412107089-0010A	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
14-Rough Coat 412107089-0010B	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	Brown Non-Fibrous Homogeneous	1% Cellulose	32% Quartz 8% Ca Carbonate 59% Non-fibrous (Other)	None Detected
15-Textured Surfacing 412107089-0011	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		20% Ca Carbonate 10% Micaceous Flakes 70% Non-fibrous (Other)	None Detected
15-Skim Coat 412107089-0011A	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
15-Rough Coat 412107089-0011B	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	Tan Non-Fibrous Homogeneous	1% Cellulose	32% Quartz 8% Ca Carbonate 59% Non-fibrous (Other)	None Detected
16-Textured Surfacing 412107089-0012	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		30% Ca Carbonate 5% Mica 65% Non-fibrous (Other)	None Detected
16-Skim Coat 412107089-0012A	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		10% Quartz 5% Ca Carbonate 85% Non-fibrous (Other)	None Detected
16-Rough Coat 412107089-0012B	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	Brown Non-Fibrous Homogeneous	2% Cellulose	30% Quartz 5% Ca Carbonate 63% Non-fibrous (Other)	None Detected
17-Textured Surfacing 412107089-0013	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	White Non-Fibrous Homogeneous		30% Ca Carbonate 5% Mica 65% Non-fibrous (Other)	None Detected

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EMSL Order: 412107089
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
17-Rough Coat 412107089-0013A	Ceilings & Walls Throughout, Except Kitchen & Back Right Room - Plaster, Ceiling Texture & Finish	Brown Non-Fibrous Homogeneous	2% Cellulose	30% Quartz 5% Ca Carbonate 63% Non-fibrous (Other)	None Detected
18 412107089-0014	Sporadic Throughout - Unfinished Drywall	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
19 412107089-0015	Sporadic Throughout - Unfinished Drywall	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
20 412107089-0016	Sporadic Throughout - Unfinished Drywall	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
21 412107089-0017	Living Room & Kitchen (Top Layer) - Dark Grey w/ Specks Roll Vinyl - No Mastic	Gray/Beige Non-Fibrous Homogeneous	4% Synthetic	20% Ca Carbonate 76% Non-fibrous (Other)	None Detected
22 412107089-0018	Living Room & Kitchen (Top Layer) - Dark Grey w/ Specks Roll Vinyl - No Mastic	Gray/White Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
24 412107089-0019	Bathroom - Top Layer Flooring - Roll Vinyl (Cream)	Gray/Tan/White Fibrous Heterogeneous	5% Glass	10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
25 412107089-0020	Bathroom - Top Layer Flooring - Roll Vinyl (Cream)	Gray/Tan Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
27 412107089-0021	Bathroom - Under Top Layer Flooring - 12x12 Self-Stick Wood Square Pattern	Brown/Gray Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
28 412107089-0022	Bathroom - Under Top Layer Flooring - 12x12 Self-Stick Wood Square Pattern	Brown/Black Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
30-Flooring 412107089-0023	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	Gray/Tan Fibrous Homogeneous	10% Cellulose 2% Glass	5% Ca Carbonate 83% Non-fibrous (Other)	None Detected
30-Mastic 412107089-0023A	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
30-Leveler 412107089-0023B	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
31-Flooring 412107089-0024	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	Gray/Tan Fibrous Heterogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
31-Mastic 412107089-0024A	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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EMSL Order: 412107089

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
31-Leveler 412107089-0024B	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
32-Leveler 412107089-0024C	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	White Non-Fibrous Homogeneous	1% Cellulose	20% Ca Carbonate 79% Non-fibrous (Other)	None Detected
33 412107089-0025	Kitchen - Under First Layer of Wood - 12x12 Self-Stick Wood Pattern Square	Brown/Gray Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
34 412107089-0026	Kitchen - Under First Layer of Wood - 12x12 Self-Stick Wood Pattern Square	Brown/Gray Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
36 412107089-0027	Kitchen - Patch in Front of Sink - Tan Square Pattern Roll	Gray/Beige Fibrous Heterogeneous	4% Glass	10% Ca Carbonate 86% Non-fibrous (Other)	None Detected
37 412107089-0028	Kitchen - Patch in Front of Sink - Tan Square Pattern Roll	Gray Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
39-Flooring 412107089-0029	Kitchen Counter - Grey Roll Vinyl w/ Adhesive	Brown/Gray Fibrous Heterogeneous	4% Glass	10% Ca Carbonate 86% Non-fibrous (Other)	None Detected
39-Mastic 412107089-0029A	Kitchen Counter - Grey Roll Vinyl w/ Adhesive	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
40-Flooring 412107089-0030 <i>No Mastic present.</i>	Kitchen Counter - Grey Roll Vinyl w/ Adhesive	Brown/White Non-Fibrous Heterogeneous	2% Glass	98% Non-fibrous (Other)	None Detected
42-Flooring 412107089-0031	Kitchen Floor - Patch - Tan Speckled Roll Vinyl w/ Adhesive	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
42-Mastic 412107089-0031A	Kitchen Floor - Patch - Tan Speckled Roll Vinyl w/ Adhesive	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
43-Flooring 412107089-0032	Kitchen Floor - Patch - Tan Speckled Roll Vinyl w/ Adhesive	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43-Mastic 412107089-0032A	Kitchen Floor - Patch - Tan Speckled Roll Vinyl w/ Adhesive	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
45 412107089-0033	Kitchen Floor - Patch - Tan Squared Diamond Pattern (Roll Vinyl)	Gray/Tan Non-Fibrous Homogeneous	5% Glass	20% Ca Carbonate 75% Non-fibrous (Other)	None Detected
46 412107089-0034	Kitchen Floor - Patch - Tan Squared Diamond Pattern (Roll Vinyl)	Gray/Tan Non-Fibrous Heterogeneous	2% Glass	98% Non-fibrous (Other)	None Detected
48 412107089-0035	Living Room - Ceiling Tile	Gray/White Fibrous Heterogeneous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
49 412107089-0036	Living Room - Ceiling Tile	Gray/White Non-Fibrous Homogeneous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected

Initial report from: 08/19/2021 08:14:59



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134
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<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412107089
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
50	Living Room - Ceiling Tile	Gray/White Fibrous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
412107089-0037		Heterogeneous			

Analyst(s) _____

Eric Loomis (32)
Ky Nguyen (24)

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: 08/19/2021 08:14:59



EMSL Analytical, Inc.

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

EMSL Order: 412107089
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: 08/12/2021 9:00 AM
Analysis Date: 08/25/2021
Collected Date:
Project: 0521-99 COS 441 Tryon St. ACM (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 412107089-0038	Roof - 2 Layers of Shingles	Gray/Various Fibrous Homogeneous	99.42 Other	0.58 Glass	No Asbestos Detected
3-Shingle 2 412107089-0039	Roof - 2 Layers of Shingles	Gray/Various Fibrous Homogeneous	99.14 Other	0.86 Glass	No Asbestos Detected
6 412107089-0040	Side of Building on Ground - Black Felt Paper	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9 412107089-0041	Ext. Window - White Glazing	White Non-Fibrous Homogeneous	99.9 Other	0.10 Fibrous_Other	No Asbestos Detected
12 412107089-0042	Int. Window - Left Side L.R. - White Caulk	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
23 412107089-0043	Living Room & Kitchen (Top Layer) - Dark Grey w/ Specks Roll Vinyl - No Mastic	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
26 412107089-0044	Bathroom - Top Layer Flooring - Roll Vinyl (Cream)	Tan Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
29 412107089-0045	Bathroom - Under Top Layer Flooring - 12x12 Self-Stick Wood Square Pattern	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
32-Flooring 412107089-0046	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	Gray/Beige Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
32-Mastic 412107089-0047	Bathroom - Under Wood - Vinyl Roll - White w/ Blue Flowers w/ Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
35 412107089-0048	Kitchen - Under First Layer of Wood - 12x12 Self-Stick Wood Pattern Square	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
38 412107089-0049	Kitchen - Patch in Front of Sink - Tan Square Pattern Roll	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: 08/26/2021 08:24:01



EMSL Analytical, Inc.

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EMSL Order: 412107089
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: 08/12/2021 9:00 AM
Analysis Date: 08/25/2021
Collected Date:
Project: 0521-99 COS 441 Tryon St. ACM (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
41-Flooring 412107089-0050	Kitchen Counter - Grey Roll Vinyl w/ Adhesive	Gray Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
41-Mastic 412107089-0051	Kitchen Counter - Grey Roll Vinyl w/ Adhesive	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
44-Flooring 412107089-0052	Kitchen Floor - Patch - Tan Speckled Roll Vinyl w/ Adhesive	Gray/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
44-Mastic 412107089-0053	Kitchen Floor - Patch - Tan Speckled Roll Vinyl w/ Adhesive	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
47 412107089-0054	Kitchen Floor - Patch - Tan Squared Diamond Pattern (Roll Vinyl)	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Sarah Breneman (17)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 08/26/2021 08:24:01



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS - TRADEMARK

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

412107089

EMSL Analytical, Inc.
10801 Southern Loop Blvd

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

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:
	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 441 Tryon St ACM	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: <i>[Signature]</i>	No. of Samples in Shipment: 50
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 style="text-align: center;">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 style="margin-left: 20px;">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;">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: center;"><u>Other Tests (please specify)</u></p> <p style="text-align: center;"><input checked="" type="checkbox"/> Positive Stop - Clearly Identified Homogeneous Areas (HA)</p>
--	---

Sample Number	HA Number	Sample Location	Material Description
1		Roof	2 layers of shingles
2			
3			
4		Roof Side of building on ground	Black felt paper
5			
6			
7		Ext. Window	White glazing
8			
9			
10		Int. Window - left side L.R.	white caulk

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

Method of Shipment: FedEx	Sample Condition Upon Receipt:		
Relinquished by: <i>[Signature]</i>	Date/Time: 8-11-21 2:50pm	Received by: <i>[Signature]</i>	Date/Time: 8/12/21 9am
Relinquished by:	Date/Time:	Received by: FR 7961 8922 1842	Date/Time:

Controlled Document - COC-01 Asbestos Bulk FR 03/06/2021 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

EMSL Analytical, Inc.
10801 Southern Loop Blvd

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRADES

7089

Pineville, NC 28134
PHONE: (704) 525-2205
EMAIL: chainofcustody@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		Int. window left side of	white caulk
12		living room	
13		Ceilings & walls throughout,	Plaster, ceiling texture
14		except kitchen & back right rm	& finish
15			
16			
17			
18		Sporadic Throughout	Unfinished
19			drywall
20			
21		Living Room & kitchen (top	Dark grey w/specks
22		layer)	roll vinyl - no mastic
23			
24		Bathroom - top layer	Roll vinyl (Cercaw)
25		flooring	
26			
27		Bathroom - under top	12x12 self-stick
28		layer flooring	wood square
29			pattern
30		Bathroom - under wood	vinyl roll - white
31			w/blue flowers
32			w/mastic
33		Kitchen - under first layer	12x12 self-stick
34		of wood	wood pattern
35			square

Method of Shipment: <i>FedEx</i>		Sample Condition Upon Receipt:	
Relinquished by: <i>A. [Signature]</i>	Date/Time: <i>8-11-21 2:30pm</i>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Continued Document - COC-01 Asbestos Bulk R0 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
EMSL Order Number / Lab Use Only

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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
36		Kitchen - patch in front	Tan Square
37		of sink	pattern roll
38			
39		Kitchen Counter	Grey roll vinyl
40			w/ adhesive
41			
42		Kitchen floor - patch	Tan speckled
43			roll vinyl w/ adhesive.
44			
45		Kitchen floor - patch	Tan squared
46			diamond pattern
47			(roll vinyl)
48		Living Room	Ceiling Tile
49			
50			

Method of Shipment: Fed Ex		Sample Condition Upon Receipt:	
Relinquished by: <i>[Signature]</i>	Date/Time: 8-11-21 2:30pm	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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 – 441 Tryon Street in Spartanburg, South Carolina 29301



Photo 2 – Roll of black felt roofing material located on the ground near the house.



Photo 3 – Two layers of shingles with no felt paper.



Photo 4 – Woven plastic material under shingles. Non - suspect ACM



Photo 5 – Interior window caulk found on the living room wood window.



Photo 6 – Plaster, ceiling/wall texture and finish on ceiling and walls throughout.



Photo 7 – Unfinished drywall throughout the building.



Photo 8 – Dark grey with specks roll vinyl with no mastic located in the living room.



Photo 9 – Cream roll vinyl flooring located in bathroom.



Photo 10 – 12x12 self-stick wood square pattern under cream colored roll vinyl flooring in the bathroom.



Photo 11 – White with blue flowers pattern roll vinyl flooring under wood flooring in the bathroom.



Photo 12 – Household debris throughout.



Photo 13 – 12x12 self-stick square pattern located in kitchen.



Photo 14 – Tan square pattern roll vinyl patch in front of kitchen sink.



Photo 15 – Grey roll vinyl with adhesive located on kitchen counter.



Photo 16 – Tan speckled roll vinyl with adhesive patch in kitchen.



Photo 17 – Tan squared diamond pattern roll vinyl flooring with adhesive located in kitchen.

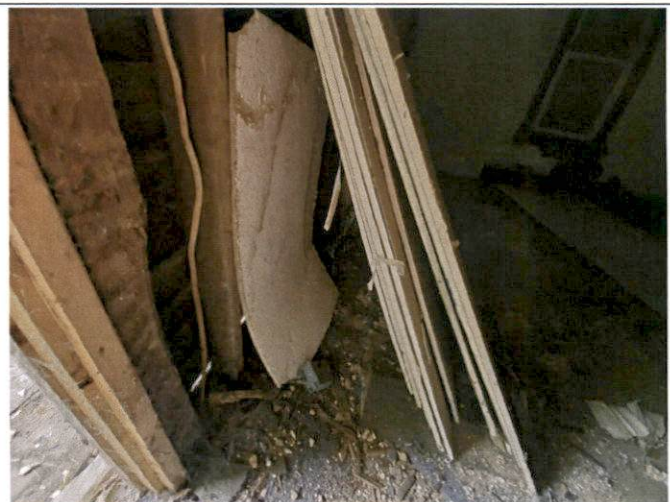


Photo 18 – 2x4 ceiling tile located behind drywall in living room.



Photo 19 – Household debris located in back room off of the kitchen.



Photo 20 – Hole located inside of entry way into the living room.

SECTION V

SC DHEC Asbestos Inspector Licenses

SCDHEC ISSUED
Asbestos ID Card

STEPHANIE HAMBY



AIRSAMPLER
CONSULTBI

AS-000632
BI-01894

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