



Asbestos & Lead Based Paint Assessment

City of Spartanburg
654 West Main Street; Building 1
Spartanburg, South Carolina 29301

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

May 20, 2021





Apex Project Number 0521-99

May 20, 2021

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

Reference: Asbestos and Lead-Based Paint Assessment Services
654 West Main Street; Building 1
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.

Tom Oliver
Vice President

Appendices

7 Winchester Court
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ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
654 WEST MAIN STREET; BUILDING 1
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
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Date:	5/20/2021	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:	654 West Main Street; Building 1 Spartanburg, SC 29301		
Assessor:	Stephanie Hamby	Date of Assessment:	4/29/2021
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 55 years
Building Type:	Commercial	Number of Stories:	1
Foundation:	Slab-on Grade	Approximate Square Footage:	5,000 SF

EXTERIOR BUILDING MATERIALS

- Pitched wooden roof with parapet & shingles & felt.
- Brick & wooden walls.
- Wooden windows with base, inner & outer layers of glazing.
- Wooden front doors with white caulk.
- Metal door with red caulk on the left side.
- Damage to the roof was identified.
- Tar on 1 roof vent – assumed positive to be ACM.

INTERIOR BUILDING MATERIALS

- Drywall with joint compound walls in both sides of the building (beneath paneling).
- HVAC A-Tape on HVAC ducts.
- 2'x2' & 2'x4' fissure pattern, smooth pattern and fiberglass ceiling tiles throughout.
- CMU block & wooden panel walls.
- Multiple types & layers of vinyl flooring with & without mastics/adhesives throughout.
- 55-gallon drum of unknown material stored in a container labeled as “corrosive” material.
- Large amounts of items, trash & debris exists.

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-nine (59) 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-nine (59) 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). Eighteen (18) 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 roof was observed to have holes and evidence of water damage was identified inside 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:

- Approximately 12 wooden windows with glazing (base layer).
- Approximately 925 SF tan rock pattern vinyl floor in the:
 - Left side and back bathroom and back area with mirror.
 - Right side front room and hallway (2nd layer).
- Approximately 170 SF green square and rectangle pattern vinyl floor in the front side of the left area.
- Approximately 400 SF of brown rock pattern vinyl in:
 - Left side front area and front window sill areas.
 - Right side in the front room, hallway and 2nd right room (2nd layer).
- Approximately 60 SF of red pattern vinyl floor in the:
 - Left side 2nd bathroom on the right.
 - Right side 2nd room.
- Approximately 325 SF 12" x 12" floor tile and black mastic in the 3rd and 4th rooms on the right side.
- Approximately 1,500 SF of drywall on the left side walls and bathrooms and throughout the right side except in the back room.
- Approximately 15 LF of A-Tape on the HVAC ducts.
- Approximately 2 SF of tar on one roof vent – assumed positive.

Lead Based Paint

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms per cubic meter (30 µg/m³) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50 µg/m³) for employees.

Currently, EPA defines LBP as paint containing in excess of, or equal to, 1.0 mg/cm². *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:

- White wooden exterior front sign

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 654 West Main Street ACM-LBP (Building 1)

Sampled By: Stephanie Hamby

Project Location: 654 West Main Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/29/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roof shingles (2 layers) & felt (2 layers)	PLM - NAD	Non-Friable	Good	5,100 SF
2			TEM - NAD			
3						
4	Wooden windows	Glazing - outer layer	PLM - NAD	Non-Friable	Good	12 EA
5			TEM - NAD			
6						
7	Wooden windows	Glazing - inner layer	PLM - NAD	Non-Friable	Good	12 EA
8			TEM - 0.67% chrysotile			
9						
10	Wooden doors	White caulk	PLM - NAD	Non-Friable	Good	2 EA
11			TEM - NAD			
12						
13	Wooden windows	Glazing - base layer	PLM - 2% chrysotile	Non-Friable	Good	12 EA
14						
15						
16	Metal door on left side	Red caulk	PLM - NAD	Non-Friable	Good	1 EA
17			TEM - NAD			
18						
19	Left side & back bathroom & back area with mirror; Right side 2nd layer front room & hallway	Tan rock pattern vinyl floor & adhesive	PLM - 15% chry (vinyl floor) NAD (adhesive)	Non-Friable	Good	925 SF
20			TEM - 0.74% chry (adhesive)			
21						
22	Left side front area	Green square & rectangle pattern vinyl floor & adhesive	PLM - 15% chry (vinyl floor) NAD (adhesive)	Non-Friable	Good	170 SF
23			TEM - NAD (adhesive)			
24						

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

Project Name: COS 654 West Main Street ACM-LBP (Building 1)

Sampled By: Stephanie Hamby

Project Location: 654 West Main Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/29/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
25	Left side front area; front window sill areas; Right side 2nd layer in the front room, hallway & 2nd right room	Brown rock pattern vinyl floor & adhesive	PLM - 15% chry (vinyl floor)	Non-Friable	Good	400 SF
26			NAD (adhesive)			
27			TEM - NAD (adhesive)			
28	Left side 1st bathroom on the right	Blue pattern vinyl floor with no adhesive	PLM - NAD	Non-Friable	Good	30 SF
29						
30			TEM - NAD			
31	Left side 2nd bathroom on the right & right side 2nd room	Red pattern vinyl floor & adhesive	PLM - 15% chry (vinyl floor)	Non-Friable	Good	60 SF
32			NAD (adhesive)			
33			TEM - 0.66% chry (adhesive)			
34	Right side 1st layer front room, hallway & right side 1st room	12" x 12" tan/gray peacock floor tile & brown adhesive	PLM - NAD	Non-Friable	Good	450 SF
35						
36			TEM - NAD			
37	Right side 2nd layer 1st room on the right	12" x 12" green peacock floor tile & black mastic	PLM - NAD	Non-Friable	Good	180 SF
38						
39			TEM - NAD			
40	Right side 3rd & 4th rooms on the right	12" x 12" floor tile & black mastic	PLM - 4% chry (vinyl floor)	Non-Friable	Good	325 SF
41			8% chry (mastic)			
42						
43	Right side 4th room on the right	12" x 12" red floor tile with no mastic	PLM - NAD	Non-Friable	Good	30 SF
44						
45			TEM - NAD			
46	Right side 4th room on the right & both bathrooms	2' x 4' smooth ceiling tiles	PLM - NAD	Friable	Good	175 SF
47						
48						

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

Project Name: COS 654 West Main Street ACM-LBP (Building 1)

Sampled By: Stephanie Hamby

Project Location: 654 West Main Street, Spartanburg, South Carolina 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/29/2021

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
49	Right side	2' x 4' fissure ceiling tiles	PLM - NAD	Friable	Good	2,435 SF
50						
51						
52	Left side walls & bathrooms & throughout the right side except in the back room	Drywall with joint compound & no tape	2% chrysotile	Friable	Good	1,500 SF
53						
54						
55						
56						
57	HVAC ducts	HVAC A-Tape	PLM - 60% chrysotile	Friable	Good	15 LF
58						
59						
Assumed	Chimney	Tar on 1 roof vent	Assumed	Non-Friable	Good	2 SF

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 654 West Main Street ACM-LBP (Building 1)

Sampled By: Stephanie Hamby

Project Location: 654 West Main Street, Spartanburg, SC 29301

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/29/2021

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
26	Exterior	Door	Red	Wood	0.21
27	Exterior	Door frame	White	Wood	0.50
28	Exterior	Window	White	Wood	0.21
29	Exterior	Window sill	White	Wood	0.06
30	Exterior	Roof overhang	White	Wood	0.04
31	Exterior	Sign	White	Wood	1.07
32	Exterior	Door	White	Metal	0.00
33	Exterior	Wall	Red	CMU Block	0.00
34	Interior	Wall	Red	CMU Block	0.00
35	Interior	Door frame	White	Metal	0.00
36	Interior	Wall	White	Drywall	0.00
37	Interior	Door	Black	Wood	0.02
38	Interior	Wall	Pink	CMU Block	0.00
39	Interior	Wall	Brown	Wooden Panel	0.00
40	Interior	Door frame	White	Wood	0.03
41	Interior	Base board	White	Wood	0.06
42	Exterior	Window bars	White	Metal	0.02

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: 412103730

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Phone: (864) 640-5274

Fax:

Received Date: 05/05/2021 9:35 AM

Analysis Date: 05/10/2021 - 05/11/2021

Collected Date:

Project: 0421-99 COS 654 West Main Street; Bldg. #1 ACM/LBP (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>412103730-0001</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Gray/Red/Black Fibrous Heterogeneous	5% Glass	15% Quartz 15% Ca Carbonate 65% Non-fibrous (Other)	None Detected
1-Shingle 2 <small>412103730-0001A</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Gray/Red/Black Fibrous Homogeneous	5% Glass	8% Quartz 15% Ca Carbonate 72% Non-fibrous (Other)	None Detected
1-Felt 1 <small>412103730-0001B</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Black Non-Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
1-Felt 2 <small>412103730-0001C</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
2-Shingle 1 <small>412103730-0002</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Red/Black Non-Fibrous Homogeneous	5% Glass	8% Quartz 15% Ca Carbonate 72% Non-fibrous (Other)	None Detected
2-Shingle 2 <small>412103730-0002A</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Red/Black Non-Fibrous Homogeneous	5% Glass	8% Quartz 15% Ca Carbonate 72% Non-fibrous (Other)	None Detected
2-Felt 1 <small>412103730-0002B</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
2-Felt 2 <small>412103730-0002C</small>	Roof Shingles (2 Layers) & Felt (2 Layers)	Black Non-Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
4 <small>412103730-0003</small>	Glazing - Outer Layer	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
5 <small>412103730-0004</small>	Glazing - Outer Layer	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
7 <small>412103730-0005</small>	Glazing - Inner Layer	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
8 <small>412103730-0006</small>	Glazing - Inner Layer	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
10 <small>412103730-0007</small>	White Wooden Door Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
11 <small>412103730-0008</small>	White Wooden Door Caulk	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
13 <small>412103730-0009</small>	Glazing - Base Layer	Tan/White Non-Fibrous Homogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
14 <small>412103730-0010</small>	Glazing - Base Layer				Positive Stop (Not Analyzed)

Initial report from: 05/11/2021 14:25:37



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: 412103730
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
16 412103730-0011	Red Metal Door Caulk	Brown/White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
17 412103730-0012	Red Metal Door Caulk	Brown/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
19-Flooring 412103730-0013	Tan Rock Pattern Vinyl Floor & Adhesive	Gray/Tan Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
19-Mastic 412103730-0013A	Tan Rock Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
20-Flooring 412103730-0014	Tan Rock Pattern Vinyl Floor & Adhesive				Positive Stop (Not Analyzed)
20-Mastic 412103730-0014A	Tan Rock Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
22-Flooring 412103730-0015	Green & Rectangle Pattern Vinyl Floor	Gray/Blue Fibrous Heterogeneous		85% Non-fibrous (Other)	15% Chrysotile
22-Mastic 412103730-0015A	Green & Rectangle Pattern Vinyl Floor	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
23-Flooring 412103730-0016	Green & Rectangle Pattern Vinyl Floor				Positive Stop (Not Analyzed)
23-Mastic 412103730-0016A	Green & Rectangle Pattern Vinyl Floor	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
25-Flooring 412103730-0017	Brown Rock Pattern Vinyl Floor & Adhesive	Brown/Gray Non-Fibrous Homogeneous	2% Cellulose	83% Non-fibrous (Other)	15% Chrysotile
25-Mastic 412103730-0017A	Brown Rock Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
26-Flooring 412103730-0018	Brown Rock Pattern Vinyl Floor & Adhesive				Positive Stop (Not Analyzed)
26-Mastic 412103730-0018A	Brown Rock Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
28 412103730-0019	Blue Pattern Vinyl Floor w/ No Adhesive	Blue Non-Fibrous Homogeneous	4% Glass	8% Ca Carbonate 88% Non-fibrous (Other)	None Detected
29 412103730-0020	Blue Pattern Vinyl Floor w/ No Adhesive	Blue Non-Fibrous Homogeneous	5% Glass	10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
31-Flooring 412103730-0021	Red Pattern Vinyl Floor w/ No Adhesive	Brown/Red Non-Fibrous Homogeneous	2% Cellulose	83% Non-fibrous (Other)	15% Chrysotile
31-Mastic 412103730-0021A	Red Pattern Vinyl Floor w/ No Adhesive	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
32-Flooring 412103730-0022	Red Pattern Vinyl Floor w/ No Adhesive				Positive Stop (Not Analyzed)

Initial report from: 05/11/2021 14:25:37



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: 412103730

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
32-Mastic 412103730-0022A	Red Pattern Vinyl Floor w/ No Adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
34-Floor Tile 412103730-0023	12"x12" Tan/Gray Peacock Pattern Floor Tile & Brown Adhesive	Pink Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
34-Mastic 412103730-0023A	12"x12" Tan/Gray Peacock Pattern Floor Tile & Brown Adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
35-Floor Tile 412103730-0024	12"x12" Tan/Gray Peacock Pattern Floor Tile & Brown Adhesive	Gray/Tan/Pink Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
35-Mastic 412103730-0024A	12"x12" Tan/Gray Peacock Pattern Floor Tile & Brown Adhesive	Brown/Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
37-Floor Tile 412103730-0025	12"x12" Green Peacock Pattern Floor Tile & Black Adhesive	Green Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
37-Mastic 412103730-0025A	12"x12" Green Peacock Pattern Floor Tile & Black Adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
38-Floor Tile 412103730-0026	12"x12" Green Peacock Pattern Floor Tile & Black Mastic	Green Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
38-Mastic 412103730-0026A	12"x12" Green Peacock Pattern Floor Tile & Black Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
40-Floor Tile 412103730-0027	12"x12" Floor Tile & Black Mastic	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
40-Mastic 412103730-0027A	12"x12" Floor Tile & Black Mastic	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41-Floor Tile 412103730-0028	12"x12" Floor Tile & Black Mastic	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 56% Non-fibrous (Other)	4% Chrysotile
41-Mastic 412103730-0028A	12"x12" Floor Tile & Black Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
43 412103730-0029	12"x12" Red Floor Tile w/ No Mastic in a Stack	Red Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
44 412103730-0030	12"x12" Red Floor Tile w/ No Mastic in a Stack	Red Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
46 412103730-0031	2'x4' Smooth Ceiling Tile	Gray/White Fibrous Heterogeneous	60% Cellulose 5% Min. Wool	15% Perlite 20% Non-fibrous (Other)	None Detected

Initial report from: 05/11/2021 14:25:37



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: 412103730

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
47 412103730-0032	2'x4' Smooth Ceiling Tile	Gray/White Fibrous Heterogeneous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
48 412103730-0033	2'x4' Smooth Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
49 412103730-0034	2'x4' Fissure Ceiling Tile	Gray/White Fibrous Heterogeneous	60% Cellulose 8% Min. Wool	15% Perlite 17% Non-fibrous (Other)	None Detected
50 412103730-0035	2'x4' Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 8% Min. Wool	15% Perlite 17% Non-fibrous (Other)	None Detected
51 412103730-0036	2'x4' Fissure Ceiling Tile	Gray/White Fibrous Homogeneous	60% Cellulose 10% Min. Wool	10% Perlite 20% Non-fibrous (Other)	None Detected
52-Drywall 412103730-0037	Drywall & Joint Compound	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
52-Joint Compound 412103730-0037A	Drywall & Joint Compound	Tan Non-Fibrous Homogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
52-Tape 412103730-0037B	Drywall & Joint Compound	Tan Fibrous Homogeneous	100% Cellulose		None Detected
53-Drywall 412103730-0038	Drywall & Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
53-Joint Compound 412103730-0038A	Drywall & Joint Compound				Positive Stop (Not Analyzed)
54-Drywall 412103730-0039	Drywall & Joint Compound	Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
54-Joint Compound 412103730-0039A	Drywall & Joint Compound				Positive Stop (Not Analyzed)
55-Drywall 412103730-0040	Drywall & Joint Compound	Gray Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
55-Joint Compound 412103730-0040A	Drywall & Joint Compound				Positive Stop (Not Analyzed)
56-Drywall 412103730-0041	Drywall & Joint Compound	Gray Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
56-Joint Compound 412103730-0041A	Drywall & Joint Compound				Positive Stop (Not Analyzed)
57 412103730-0042	A-Tape on HVAC	Gray Fibrous Homogeneous	40% Cellulose		60% Chrysotile
58 412103730-0043	A-Tape on HVAC				Positive Stop (Not Analyzed)
59 412103730-0044	A-Tape on HVAC				Positive Stop (Not Analyzed)

Initial report from: 05/11/2021 14:25:37



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10801 Southern Loop Blvd Pineville, NC 28134

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

EMSL Order: 412103730

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

Analyst(s)

Eric Loomis (35)

Sarah Breneman (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: 05/11/2021 14:25:37



EMSL Analytical, Inc.

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EMSL Order: 412103730

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Phone: (864) 640-5274

Fax:

Received Date: 05/05/2021 9:35 AM

Analysis Date: 05/12/2021

Collected Date:

Project: 0421-99 COS 654 West Main Street; Bldg. #1 ACM/LBP (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 412103730-0045	Roof Shingles (2 Layers) & Felt (2 Layers)	Gray/Red Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Shingle 2 412103730-0046	Roof Shingles (2 Layers) & Felt (2 Layers)	Gray/Red Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 1 412103730-0047	Roof Shingles (2 Layers) & Felt (2 Layers)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Felt 2 412103730-0048	Roof Shingles (2 Layers) & Felt (2 Layers)	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6 412103730-0049	Glazing - Outer Layer	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9 412103730-0050	Glazing - Inner Layer	Tan Non-Fibrous Homogeneous	99.38 Other	None	0.62% Chrysotile
12 412103730-0051	White Wooden Door Caulk	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
18 412103730-0052	Red Metal Door Caulk	Red Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21-Mastic 412103730-0053	Tan Rock Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	100.0 Other	None	<0.74% Chrysotile
24-Mastic 412103730-0054	Green & Rectangle Pattern Vinyl Floor	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
27-Mastic 412103730-0055	Brown Rock Pattern Vinyl Floor & Adhesive	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
30 412103730-0056	Blue Pattern Vinyl Floor w/ No Adhesive	Green Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/13/2021 15:17:36



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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

EMSL Order: 412103730

Customer ID: AXEM25

Customer PO:

Project ID: City of Spartanburg

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

Phone: (864) 640-5274

Fax:

Received Date: 05/05/2021 9:35 AM

Analysis Date: 05/12/2021

Collected Date:

Project: 0421-99 COS 654 West Main Street; Bldg. #1 ACM/LBP (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
33-Mastic 412103730-0057	Red Pattern Vinyl Floor w/ No Adhesive	Tan Non-Fibrous Homogeneous	99.34 Other	None	0.66% Chrysotile
36-Floor Tile 412103730-0058	12"x12" Tan/Gray Peacock Pattern Floor Tile & Brown Adhesive	Purple Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
36-Mastic 412103730-0059	12"x12" Tan/Gray Peacock Pattern Floor Tile & Brown Adhesive	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
39-Floor Tile 412103730-0060	12"x12" Green Peacock Pattern Floor Tile & Black Mastic	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
39-Mastic 412103730-0061	12"x12" Green Peacock Pattern Floor Tile & Black Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
45 412103730-0062	12"x12" Red Floor Tile w/ No Mastic in a Stack	Red Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Derrick Young (18)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/13/2021 15:17:36



EMSL Order Number / Lab Use Only

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

EMSL ANALYTICAL INC.
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412103730

Customer Information	Customer ID:	Billing ID:
	Company Name: Apex Environmental Management, Inc.	Company Name: Apex Environmental Management, Inc.
	Contact Name: Tom Oliver	Billing Contact: Tom Oliver
	Street Address: 7 Winchester Court	Street Address: 7 Winchester Court
	City, State, Zip: Mauldin SC 29662 Country: US	City, State, Zip: Mauldin SC Country:
Phone: 8644043210	Phone: 8644043210	
Email(s) for Report: tolover@apex-ehs.com	Email(s) for Invoice:	

Project Information

Project Name/No: 0421-99 COS 654 West Main Street; Bldg #1 ACM/LBP Purchase Order:

EMSL LIMS Project ID: (if applicable, EMSL will provide) US State where samples collected: SC State of Connecticut (CT) must select project location: Commercial (Taxable) Residential (Non-Taxable)

Sampled By Name: Stephanie Hamby Sampled By Signature: No. of Samples In Shipment:

Turn-Around-Time (TAT)

3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week 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

Test Selection

PLM - Bulk (reporting limit)

PLM EPA 600/R-93/116 (<1%)
 PLM EPA NOB (<1%)
 POINT COUNT
 400 (<0.25%) 1,000 (<0.1%)
 POINT COUNT w/ GRAVIMETRIC
 400 (<0.25%) 1,000 (<0.1%)
 NIOSH 9002 (<1%)
 NYS 198.1 (Friable - NY)
 NYS 198.6 NOB (Non-Friable - NY)
 NYS 198.8 (Vermiculite SM-V)

TEM - Bulk

TEM - Bulk
 TEM EPA NOB
 NYS NOB 198.4 (Non-Friable-NY)
 TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Tests (please specify)

Positive Stop - Clearly Identified Homogeneous Areas (HA)

Sample Number	HA Number	Sample Location	Material Description
1		Roof shingles (2 layers)	PLM
2		felt (2 layers)	I
3			TEM
4		Glazing - outer layer	PLM
5			I
6			TEM
7		Glazing - inner layer	PLM
8			I
9			TEM

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: [Signature] Date/Time: 5-3-21 3:00pm Received by: [Signature] Date/Time: 5/3/21 9:35AM

Relinquished by: Date/Time: Received by: Date/Time:

Controlled Document - Asbestos Bulk R5 03/18/2021 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.
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3730

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

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
10		White wooden door	PLM
11		caulk	I
12			TEM
13		Glazing - base layer	PLM
14			I
15			TEM
16		Red metal door caulk	PLM
17			I
18			TEM
19		Tan rock pattern vinyl	PLM
20		floor + adhesive	I
21			TEM
22		Green + rectangle pattern	PLM
23		vinyl floor	I
24			TEM
25		Brown rock pattern vinyl	PLM
26		floor + adhesive	I
27			TEM
28		Blue pattern vinyl floor	PLM
29		w/ no adhesive	I
30			TEM
31		Red pattern vinyl floor	PLM
32		w/ no adhesive	I
33			TEM

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R5 03/18/2021

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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10801 Southern Loop Blvd

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

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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
34		12" x 12" tan/gray peacock	PLM
35		pattern floor tile & brown	I
36		adhesive	TEM
37		12" x 12" green peacock	PLM
38		pattern vinyl floor tile &	I
39		dark mastic	TEM
40		12" x 12" floor tile	PLM
41		& dark mastic	I
42			TEM
43		12" x 12" red floor tile	PLM
44		w/ no mastic in a stack	I
45			TEM
46		2' x 4' smooth ceiling	PLM
47		tile	I
48			I
49		2' x 4' fissure ceiling	PLM
50		tile	I
51			I
52		Drywall & joint	PLM
53		Compound	I
54			I
55			I
56			I

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R5 03/18/2021

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Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

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

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
57		A-tape on HVAC	PLM
58			
59			

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - Asbestos Bulk R5 03/18/2021

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Dana 4 of 4

SECTION IV
Photographic Log



Photo 1 – 654 West Main Street (Building 1) in Spartanburg, South Carolina 29301



Photo 2 – Roof shingles & felt



Photo 3 – White wooden door caulk



Photo 4 – Wooden window with glazing



Photo 5 – Wooden window with base, inner & outer layers



Photo 6 – Wooden window with base, inner & outer layers



Photo 7 – Red metal door caulk



Photo 8 – Tar on 1 roof vent – assumed positive



Photo 9 – Typical view of the tan & brown vinyl floor & adhesive. Exists as single layers & 2nd layers



Photo 10 – Green square & rectangle pattern vinyl floor & adhesive in the left side front area



Photo 11 – Blue pattern vinyl floor with no adhesive in the left side 1st bathroom on the right



Photo 12 – 55 gallon container of “corrosive” material



Photo 13 – Red pattern vinyl floor & adhesive in the left side 2nd bathroom on the right & right side 2nd room



Photo 14 – Top layer of 12" x 12" tan/gray peacock floor tile & brown adhesive in the right side front room, hallway & right side 1st room



Photo 15 – 2nd layer 12" x 12" green peacock floor tile & black mastic in the right side 1st room on the right



Photo 16 – 12" x 12" floor tile & black mastic in the right side 3rd & 4th rooms on the right



Photo 17 – 12" x 12" red floor tile with no mastic in the right side 4th room on the right



Photo 18 – 2' x 4' smooth ceiling tiles in the right side 4th room on the right & both bathrooms



Photo 18 – 2' x 4' fissure ceiling tiles in the right side



Photo 20 – Drywall with joint compound & tape in the left side walls & bathrooms & throughout the right side except in the back room



Photo 21 – Drywall with joint compound & tape in the left side walls & bathrooms & throughout the right side except in the back room



Photo 22 – Typical view of items and debris throughout the building



Photo 23 – Typical view of items and debris throughout the building



Photo 24 – A-Tape on HVAC

SECTION V

SC DHEC Asbestos Inspector License



January 8, 2021

To whom it may concern:

Due to an unforeseen printer outage the SC Department of Health and Environmental Control Asbestos Program cannot issue a Standard Asbestos License

AS-000632 exp 8/13/2021
for license number: BI-01894 exp 1/12/2022

Please accept this correspondence as a temporary acknowledgment

of Air Sampler & Building Inspector licensing status.

Stephanie Hamby will be issued a standard license card once our systems are fully operational.

Keep this letter with you all the time during work at the job site.

If you have any questions, please call the Asbestos Section at 803-898-4289.

Sincerely,

A handwritten signature in black ink that reads "Jennifer Lynn Boryk".

Jennifer Lynn Boryk
Manager, Asbestos Section
Bureau of Air Quality