



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

City of Spartanburg  
654 West Main Street; Building 2  
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 25, 2021





**Apex Project Number 0521-99**

May 25, 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 2  
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  
Mauldin, SC 29662  
864.404.3210 office  
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**ASBESTOS AND LEAD BASED PAINT ASSESSMENT**

**CITY OF SPARTANBURG  
654 WEST MAIN STREET; BUILDING 2  
SPARTANBURG, SOUTH CAROLINA 29301**

**APEX PROJECT NO. 0521-99**

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**SECTION I**

**Asbestos & Lead Evaluation Report**

|  |
|--|
| <b>ASBESTOS EVALUATION REPORT</b><br><b>APEX PROJECT NUMBER: 0521-99</b> |
|--|

|                        |  |                            |                        |
|------------------------|--|----------------------------|------------------------|
| Date:                  | 5/25/2021  | Page Number:               | 1 of 4                 |
| Client:                | City of Spartanburg  | Client Contact:            | Mr. Jeff Tillerson     |
| Client Address:        | 440 South Church Street<br>Suite B<br>Spartanburg, SC 29306              | Client Phone Number:       | (864) 596-2911         |
| Project:               | Asbestos Evaluation and Lead Based Paint Assessment                      |                            |                        |
| Property Address:      | 654 West Main Street;<br>Building 2<br>Spartanburg, SC 29301             |                            |                        |
| Assessor:              | Stephanie Hamby  | Date of Assessment:        | 4/30/2021              |
| Company:               | Apex Environmental Management<br>7 Winchester Court<br>Mauldin, SC 29662 | Phone Number:              | (864) 404-3210         |
| Purpose of Assessment: | Demolition   | Age of Structure:          | Approximately 65 years |
| Building Type:         | Commercial   | Number of Stories:         | 1                      |
| Foundation:            | Slab-on Grade  | Approximate Square Footage | 1,725 SF               |

**EXTERIOR BUILDING MATERIALS**

- Front flat built-up tar & gravel roof system with tar & shingle flashing on the parapet wall & stone.
- Back pitched wooden roof with shingles & felt.
- Brick siding & CMU block siding with stucco. Wooden & vinyl siding over OSB siding with a felt paper layer.
- Exterior caulk on stucco and brick siding & plywood siding.
- Metal windows & doors with caulks.

**INTERIOR BUILDING MATERIALS**

- Drywall with joint compound walls & ceilings in the bathrooms & back area.
- Concrete ceilings.
- 2' x 4' ceiling tiles in the front area.
- CMU block & wooden wall panel walls.
- 9" x 9" brown floor tile & brown mastic in the front area.
- Multiple types & layers of vinyl flooring with & without mastics/adhesives behind the bar area.
- 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. Forty-one (41) 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. Forty-seven (47) 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). Eleven (11) 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.

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

- Approximately 75 LF of gray caulk on exterior brick siding and stucco.
- Approximately 1 metal door on the left side of the building with gray caulk.
- Approximately 170 SF green square and rectangle pattern vinyl floor in the front side of the left area.
- Approximately 1,225 SF built-up tar and gravel roof system.
- Approximately 175 SF of tar and shingle flashing on the flat roof parapet walls and stone.
- Approximately 550 SF 9" x 9" brown floor tile in the front area.

### 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.

Two surfaces in the building tested positive for lead in excess of the regulatory definition:

- Exterior gray brick walls.
- Interior blue angle iron on top of walls.

## **RECOMMENDATIONS AND DISCUSSION**

### Asbestos Containing Materials

If the above referenced asbestos materials are to be disturbed by renovations or demolition, the asbestos must be removed in accordance with EPA, State of South Carolina and OSHA asbestos regulations. The State of South Carolina, Department of Health and Environmental Control (DHEC) has specific regulations that must be adhered to during asbestos removal/abatement projects.

APEX recommends the following:

1. Abate the asbestos containing materials in the structure prior to renovation or demolition.
2. Follow applicable asbestos regulations during renovation or demolition of the structure. You should be aware that stringent requirements are imposed upon anyone renovating or demolishing a structure in which ACM will be disturbed. This work must be performed in accordance with OSHA asbestos regulations, 29 CFR 1910 & 1926, and NESHAP asbestos regulations 40 CFR 61, subpart M. South Carolina regulations require the accreditation of personnel who work in the asbestos field and notification and permitting fees for asbestos removal projects. There is a 10 working day notification period required prior to abatement of asbestos in a facility. Failure to take proper precautions and actions to protect human health

and the environment can result in penalties, danger to personnel, and construction delays.

### Lead-Based Paint

Currently the Environmental Protection Agency (EPA) define LBP as paint containing greater than 1.0 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) lead or in excess of, or equal to, 0.5 percent lead. Building materials identified as being painted with LBP should be segregated from the other building materials and recycled or disposed of in a municipal lined landfill. The removed wastes would need to be containerized and further tested by Toxic Characteristic Leaching procedures (TCLP) to determine if the waste is classified as hazardous. The remaining building materials that are not painted with LBP may be disposed of in a construction and demolition landfill. However, the landfills should be contacted to determine their specific disposal requirements.

Occupational Safety and Health Administration Lead Regulations apply to actions initiated on lead containing materials. This regulation applies to lead concentrations greater than the analytical limit of detection. This regulation sets exposure levels on airborne lead and does not reference the percent lead in paint. Therefore, initial personal air monitoring should be conducted on workers performing work on surfaces which have a lead concentration of  $0.1 \text{ mg}/\text{cm}^2$  or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) is established, personal air monitoring may be terminated. The full OSHA lead standard should be referenced for compliance.

**A copy of this report must be submitted to SCDHEC at least ten (10) working days prior to demolition when applying for a demolition permit.**



**SECTION II**

**Asbestos & LBP Data Tables**

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

Project Name: COS 654 West Main Street ACM-LBP (Building 2)

Sampled By: Stephanie Hamby

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

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

| Sample No. | Location                           | Sample Description                       | Analytical Results        | Friable/Non Friable | Condition | Quantity |
|------------|------------------------------------|--|---------------------------|---------------------|-----------|----------|
| 1          | Exterior siding/walls              | Stucco over CMU blocks                   | PLM - NAD                 | Friable             | Good      | 175 SF   |
| 2          |                                    |  |                           |                     |           |          |
| 3          |                                    |  |                           |                     |           |          |
| 4          | Exterior siding & stucco           | Gray caulk                               | PLM - 7% chrysotile       | Non-Friable         | Good      | 75 LF    |
| 5          |                                    |  |                           |                     |           |          |
| 6          |                                    |  |                           |                     |           |          |
| 7          | Metal windows                      | Black caulk over tan caulk               | PLM - NAD                 | Non-Friable         | Good      | 2 EA     |
| 8          |                                    |  | TEM - NAD                 |                     |           |          |
| 9          |                                    |  |                           |                     |           |          |
| 10         | Metal door on right side           | Gray caulk                               | PLM - 10% chrysotile      | Non-Friable         | Good      | 1 EA     |
| 11         |                                    |  |                           |                     |           |          |
| 12         |                                    |  |                           |                     |           |          |
| 13         | Wooden plywood siding on left side | White hard caulk                         | PLM - NAD                 | Non-Friable         | Good      | 50 LF    |
| 14         |                                    |  | TEM - NAD                 |                     |           |          |
| 15         |                                    |  |                           |                     |           |          |
| 16         | Flat roof                          | Built-up tar & gravel roof system        | PLM - 6% chrysotile       | Non-Friable         | Good      | 1,225 SF |
| 17         |                                    |  |                           |                     |           |          |
| 18         |                                    |  |                           |                     |           |          |
| 19         | Flat roof parapet walls & stone    | Tar & shingle flashing                   | PLM - 6% chrysotile (tar) | Non-Friable         | Good      | 175 SF   |
| 20         |                                    |  | NAD (shingle)             |                     |           |          |
| 21         |                                    |  | TEM - NAD (shingle)       |                     |           |          |
| 22         | Back pitched wooden roof           | Roof shingles (1 layer) & felt (1 layer) | PLM - NAD                 | Non-Friable         | Good      | 600 SF   |
| 23         |                                    |  | TEM - NAD                 |                     |           |          |
| 24         |                                    |  |                           |                     |           |          |

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

Project Name: COS 654 West Main Street ACM-LBP (Building 2)

Sampled By: Stephanie Hamby

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

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

| Sample No. | Location                               | Sample Description                                 | Analytical Results                      | Friable/Non Friable | Condition | Quantity |
|------------|--|--|---|---------------------|-----------|----------|
| 25         | Beneath wooden & vinyl siding          | Felt paper   | PLM - NAD                               | Non-Friable         | Good      | 600 SF   |
| 26         |  |  | TEM - NAD                               |                     |           |          |
| 27         |  |  |   |                     |           |          |
| <b>28</b>  | Front area                             | 9" x 9" brown floor tile & brown mastic            | <b>PLM - 8% chrysotile (floor tile)</b> | Non-Friable         | Good      | 550 SF   |
| <b>29</b>  |  |  | NAD - (mastic)                          |                     |           |          |
| <b>30</b>  |  |  | TEM - 0.56% chrysotile (mastic)         |                     |           |          |
| 31         | Back area & bathrooms walls & ceilings | Drywall with joint compound & tape                 | PLM - NAD                               | Friable             | Good      | 1,300 SF |
| 32         |  |  |   |                     |           |          |
| 33         |  |  |   |                     |           |          |
| 34         |  |  |   |                     |           |          |
| 35         |  |  |   |                     |           |          |
| 36         | Behind bar area                        | Multiple layers of roll vinyl flooring & adhesives | PLM - NAD                               | Non-Friable         | Good      | 125 SF   |
| 37         |  |  | TEM - NAD                               |                     |           |          |
| 38         |  |  |   |                     |           |          |
| 39         | Front area                             | 2' x 4' ceiling tiles                              | PLM - NAD                               | Friable             | Good      | 32 SF    |
| 40         |  |  |   |                     |           |          |
| 41         |  |  |   |                     |           |          |

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 2)

Sampled By: Stephanie Hamby

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

Project Manager: Tom Oliver

Project Number: 0521-99

Date: 4/30/2021

| Sample No. | Sample Location | Component                        | Color       | Substrate    | Analytical Result (mg/m <sup>3</sup> ) |
|------------|-----------------|----------------------------------|-------------|--------------|--|
| 44         | Exterior        | Window/door bars                 | White       | Metal        | 0.00                                   |
| <b>45</b>  | <b>Exterior</b> | <b>Wall</b>                      | <b>Gray</b> | <b>Brick</b> | <b>1.28</b>                            |
| 46         | Exterior        | Wall/stucco                      | Gray        | CMU block    | 0.00                                   |
| 47         | Exterior        | Soffit/fascia                    | White       | Wood         | 0.00                                   |
| 48         | Exterior        | Siding patch                     | White       | Wood         | 0.00                                   |
| 49         | Exterior        | Siding patch                     | White       | Wood         | 0.00                                   |
| 50         | Exterior        | Corner trim                      | White       | Wood         | 0.00                                   |
| 51         | Exterior        | Door                             | White       | Metal        | 0.93                                   |
| 52         | Interior        | Wall                             | Tan         | CMU block    | 0.00                                   |
| 53         | Interior        | Wall                             | Tan         | Wooden panel | 0.00                                   |
| 54         | Interior        | Floor                            | Peach       | Concrete     | 0.00                                   |
| 55         | Interior        | Bar foot rest                    | Burgundy    | Wood         | 0.00                                   |
| 56         | Interior        | Bar                              | Black       | Wood         | 0.00                                   |
| 57         | Interior        | Wall                             | Black       | Wooden panel | 0.00                                   |
| 58         | Interior        | Wall                             | Black       | CMU block    | 0.08                                   |
| 59         | Interior        | Wall                             | White       | Drywall      | 0.00                                   |
| 60         | Interior        | Wall                             | Tan         | Drywall      | 0.00                                   |
| <b>61</b>  | <b>Interior</b> | <b>Angle iron on top of wall</b> | <b>Blue</b> | <b>Metal</b> | <b>1.14</b>                            |
| 62         | Interior        | Ceiling                          | White       | Drywall      | 0.00                                   |
| 63         | Interior        | Wall                             | White       | Wooden panel | 0.00                                   |
| 64         | Interior        | Wall                             | White       | CMU block    | 0.12                                   |
| 65         | Interior        | Wall                             | White       | Wooden panel | 0.00                                   |
| 66         |                 | Calibration                      |             |              | 1.06                                   |
| 67         |                 | Calibration                      |             |              | 1.12                                   |
| 68         |                 | Calibration                      |             |              | 1.09                                   |

**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](mailto:charlottelab@emsl.com)

EMSL Order: 412103731

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-COS 654 West Main Street; Bldg. #2 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<br>412103731-0001             | Stucco over CMU Block                          | Gray<br>Non-Fibrous<br>Homogeneous      |              | 15% Ca Carbonate<br>85% Non-fibrous (Other)               | None Detected                |
| 2<br>412103731-0002             | Stucco over CMU Block                          | Gray<br>Non-Fibrous<br>Homogeneous      |              | 15% Ca Carbonate<br>85% Non-fibrous (Other)               | None Detected                |
| 3<br>412103731-0003             | Stucco over CMU Block                          | Gray<br>Non-Fibrous<br>Homogeneous      |              | 10% Quartz<br>20% Ca Carbonate<br>70% Non-fibrous (Other) | None Detected                |
| 4<br>412103731-0004             | Exterior Gray Caulk                            | Gray<br>Non-Fibrous<br>Homogeneous      |              | 20% Ca Carbonate<br>73% Non-fibrous (Other)               | 7% Chrysotile                |
| 5<br>412103731-0005             | Exterior Gray Caulk                            |   |              |   | Positive Stop (Not Analyzed) |
| 7-Black Caulk<br>412103731-0006 | Black Caulk over Tan Caulk                     | Black<br>Non-Fibrous<br>Homogeneous     |              | 15% Ca Carbonate<br>85% Non-fibrous (Other)               | None Detected                |
| 7-Tan Caulk<br>412103731-0006A  | Black Caulk over Tan Caulk                     | Tan/White<br>Non-Fibrous<br>Homogeneous |              | 15% Ca Carbonate<br>85% Non-fibrous (Other)               | None Detected                |
| 8-Black Caulk<br>412103731-0007 | Black Caulk over Tan Caulk                     | Black<br>Non-Fibrous<br>Homogeneous     |              | 100% Non-fibrous (Other)                                  | None Detected                |
| 8-Tan Caulk<br>412103731-0007A  | Black Caulk over Tan Caulk                     | Tan<br>Non-Fibrous<br>Homogeneous       |              | 5% Ca Carbonate<br>95% Non-fibrous (Other)                | None Detected                |
| 10<br>412103731-0008            | Right Side - Gray Metal Door Caulk             | Gray<br>Non-Fibrous<br>Homogeneous      |              | 15% Ca Carbonate<br>75% Non-fibrous (Other)               | 10% Chrysotile               |
| 11<br>412103731-0009            | Right Side - Gray Metal Door Caulk             |   |              |   | Positive Stop (Not Analyzed) |
| 13<br>412103731-0010            | White Hard Siding Caulk - Plywood              | White<br>Non-Fibrous<br>Homogeneous     |              | 30% Ca Carbonate<br>70% Non-fibrous (Other)               | None Detected                |
| 14<br>412103731-0011            | White Hard Siding Caulk - Plywood              | White<br>Non-Fibrous<br>Homogeneous     |              | 10% Ca Carbonate<br>90% Non-fibrous (Other)               | None Detected                |
| 16<br>412103731-0012            | Flat Built Up Tar & Gravel Roof System         | Black<br>Non-Fibrous<br>Homogeneous     |              | 94% Non-fibrous (Other)                                   | 6% Chrysotile                |
| 17<br>412103731-0013            | Flat Built Up Tar & Gravel Roof System         |   |              |   | Positive Stop (Not Analyzed) |
| 19-Tar<br>412103731-0014        | Tar & Shingle Flashing on Parapet Roof & Stone | Black<br>Non-Fibrous<br>Homogeneous     |              | 15% Ca Carbonate<br>79% Non-fibrous (Other)               | 6% Chrysotile                |

Initial report from: 05/11/2021 12:41:33



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 412103731  
**Customer ID:** AXEM25  
**Customer PO:**  
**Project ID:** City of Spartanburg

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

| Sample                               | Description  | Appearance                                 | Non-Asbestos  |   | Asbestos                     |
|--------------------------------------|--|--|---------------|---|------------------------------|
|                                      |  |  | % Fibrous     | % Non-Fibrous   | % Type                       |
| 19-Shingle<br>412103731-0014A        | Tar & Shingle<br>Flashing on Parapet<br>Roof & Stone | Red/Black<br>Non-Fibrous<br>Homogeneous    | 10% Glass     | 8% Quartz<br>15% Ca Carbonate<br>67% Non-fibrous (Other)  | None Detected                |
| 20-Tar<br>412103731-0015             | Tar & Shingle<br>Flashing on Parapet<br>Roof & Stone |  |               |   | Positive Stop (Not Analyzed) |
| 20-Shingle<br>412103731-0015A        | Tar & Shingle<br>Flashing on Parapet<br>Roof & Stone | Gray/Red/Black<br>Fibrous<br>Heterogeneous | 5% Glass      | 15% Quartz<br>15% Ca Carbonate<br>65% Non-fibrous (Other) | None Detected                |
| 22-Shingle<br>412103731-0016         | Roof Shingles (1<br>Layer) & Felt (1<br>Layer)       | Red/Black<br>Non-Fibrous<br>Homogeneous    |               | 8% Quartz<br>15% Ca Carbonate<br>77% Non-fibrous (Other)  | None Detected                |
| 22-Felt<br>412103731-0016A           | Roof Shingles (1<br>Layer) & Felt (1<br>Layer)       | Black<br>Fibrous<br>Homogeneous            | 75% Cellulose | 25% Non-fibrous (Other)                                   | None Detected                |
| 23-Shingle<br>412103731-0017         | Roof Shingles (1<br>Layer) & Felt (1<br>Layer)       | Gray/Red/Black<br>Fibrous<br>Homogeneous   | 5% Glass      | 15% Quartz<br>15% Ca Carbonate<br>65% Non-fibrous (Other) | None Detected                |
| 23-Felt<br>412103731-0017A           | Roof Shingles (1<br>Layer) & Felt (1<br>Layer)       | Black<br>Non-Fibrous<br>Homogeneous        | 65% Cellulose | 35% Non-fibrous (Other)                                   | None Detected                |
| 25<br>412103731-0018                 | Felt Layer on Wooden<br>Siding (Felt Only)           | Brown<br>Fibrous<br>Homogeneous            | 98% Cellulose | 2% Non-fibrous (Other)                                    | None Detected                |
| 26<br>412103731-0019                 | Felt Layer on Wooden<br>Siding (Felt Only)           | Black<br>Fibrous<br>Homogeneous            | 65% Cellulose | 35% Non-fibrous (Other)                                   | None Detected                |
| 28-Floor Tile<br>412103731-0020      | 9"x9" Brown Floor Tile<br>& Brown Mastic             | Brown<br>Non-Fibrous<br>Homogeneous        |               | 30% Ca Carbonate<br>62% Non-fibrous (Other)               | 8% Chrysotile                |
| 28-Mastic<br>412103731-0020A         | 9"x9" Brown Floor Tile<br>& Brown Mastic             | Tan<br>Non-Fibrous<br>Homogeneous          |               | 5% Ca Carbonate<br>95% Non-fibrous (Other)                | None Detected                |
| 29-Floor Tile<br>412103731-0021      | 9"x9" Brown Floor Tile<br>& Brown Mastic             |  |               |   | Positive Stop (Not Analyzed) |
| 29-Mastic<br>412103731-0021A         | 9"x9" Brown Floor Tile<br>& Brown Mastic             | Tan<br>Non-Fibrous<br>Homogeneous          | <1% Cellulose | 100% Non-fibrous (Other)                                  | None Detected                |
| 31-Drywall<br>412103731-0022         | Drywall w/ Joint<br>Compound                         | Gray<br>Non-Fibrous<br>Homogeneous         | 8% Cellulose  | 92% Non-fibrous (Other)                                   | None Detected                |
| 31-Joint Compound<br>412103731-0022A | Drywall w/ Joint<br>Compound                         | White<br>Non-Fibrous<br>Homogeneous        |               | 40% Ca Carbonate<br>60% Non-fibrous (Other)               | None Detected                |
| 31-Tape<br>412103731-0022B           | Drywall w/ Joint<br>Compound                         | Tan<br>Non-Fibrous<br>Homogeneous          | 99% Cellulose | 1% Non-fibrous (Other)                                    | None Detected                |
| 32-Drywall<br>412103731-0023         | Drywall w/ Joint<br>Compound                         | Gray<br>Non-Fibrous<br>Homogeneous         | 8% Cellulose  | 92% Non-fibrous (Other)                                   | None Detected                |
| 32-Joint Compound<br>412103731-0023A | Drywall w/ Joint<br>Compound                         | White<br>Non-Fibrous<br>Homogeneous        |               | 40% Ca Carbonate<br>60% Non-fibrous (Other)               | None Detected                |
| 32-Tape<br>412103731-0023B           | Drywall w/ Joint<br>Compound                         | Tan<br>Fibrous<br>Homogeneous              | 99% Cellulose | 1% Non-fibrous (Other)                                    | None Detected                |

Initial report from: 05/11/2021 12:41:33



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 412103731  
**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        |
| 33-Drywall<br><i>412103731-0024</i>                                    | Drywall w/ Joint Compound                  | Gray Fibrous Homogeneous            | 10% Cellulose      | 90% Non-fibrous (Other)                     | None Detected |
| 33-Joint Compound<br><i>412103731-0024A</i>                            | Drywall w/ Joint Compound                  | White Non-Fibrous Homogeneous       |                    | 40% Ca Carbonate<br>60% Non-fibrous (Other) | None Detected |
| 33-Tape<br><i>412103731-0024B</i>                                      | Drywall w/ Joint Compound                  | Tan Fibrous Homogeneous             | 100% Cellulose     |   | None Detected |
| 34-Drywall<br><i>412103731-0025</i>                                    | Drywall w/ Joint Compound                  | Gray Non-Fibrous Homogeneous        | 8% Cellulose       | 92% Non-fibrous (Other)                     | None Detected |
| 34-Joint Compound<br><i>412103731-0025A</i>                            | Drywall w/ Joint Compound                  | White Non-Fibrous Homogeneous       |                    | 40% Ca Carbonate<br>60% Non-fibrous (Other) | None Detected |
| 34-Tape<br><i>412103731-0025B</i>                                      | Drywall w/ Joint Compound                  | Tan Non-Fibrous Homogeneous         | 99% Cellulose      | 1% Non-fibrous (Other)                      | None Detected |
| 35-Drywall<br><i>412103731-0026</i>                                    | Drywall w/ Joint Compound                  | Gray Fibrous Homogeneous            | 10% Cellulose      | 90% Non-fibrous (Other)                     | None Detected |
| 35-Joint Compound<br><i>412103731-0026A</i>                            | Drywall w/ Joint Compound                  | White Non-Fibrous Homogeneous       |                    | 40% Ca Carbonate<br>60% Non-fibrous (Other) | None Detected |
| 35-Tape<br><i>412103731-0026B</i>                                      | Drywall w/ Joint Compound                  | Tan Fibrous Homogeneous             | 100% Cellulose     |   | None Detected |
| 36-Flooring<br><i>412103731-0027</i><br><i>No mastic present</i>       | Multiple Layers of Vinyl Floors & Adhesive | Tan Non-Fibrous Homogeneous         |                    | 8% Ca Carbonate<br>92% Non-fibrous (Other)  | None Detected |
| 36-Subflooring<br><i>412103731-0027A</i>                               | Multiple Layers of Vinyl Floors & Adhesive | Brown Non-Fibrous Homogeneous       | 80% Cellulose      | 20% Non-fibrous (Other)                     | None Detected |
| 37-Flooring<br><i>412103731-0028</i><br><i>Only one mastic present</i> | Multiple Layers of Vinyl Floors & Adhesive | Brown/Beige Non-Fibrous Homogeneous | 3% Glass           | 10% Ca Carbonate<br>87% Non-fibrous (Other) | None Detected |
| 37-Subflooring<br><i>412103731-0028B</i>                               | Multiple Layers of Vinyl Floors & Adhesive | Brown Non-Fibrous Homogeneous       | 50% Cellulose      | 50% Non-fibrous (Other)                     | None Detected |
| 37-Mastic<br><i>412103731-0028C</i>                                    | Multiple Layers of Vinyl Floors & Adhesive | Tan/Black Non-Fibrous Homogeneous   | 5% Fibrous (Other) | 5% Ca Carbonate<br>90% Non-fibrous (Other)  | None Detected |
| 39<br><i>412103731-0029</i>  | 2'x4' Ceiling Tiles                        | Brown Fibrous Homogeneous           | 95% Cellulose      | 5% Non-fibrous (Other)                      | None Detected |
| 40<br><i>412103731-0030</i>  | 2'x4' Ceiling Tiles                        | Brown Non-Fibrous Homogeneous       | 95% Cellulose      | 5% Non-fibrous (Other)                      | None Detected |
| 41<br><i>412103731-0031</i>  | 2'x4' Ceiling Tiles                        | Brown/White Fibrous Homogeneous     | 90% Cellulose      | 10% Non-fibrous (Other)                     | None Detected |

Initial report from: 05/11/2021 12:41:33





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 412103731

**Customer ID:** AXEM25

**Customer PO:**

**Project ID:** City of Spartanburg

Analyst(s)

Eric Loomis (19)

Sarah Breneman (28)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 05/11/2021 12:41:33



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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**EMSL Order:** 412103731

**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-COS 654 West Main Street; Bldg. #2 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       |
|----------------------------------|--|-------------------------------------|-------------------|-----------------------|----------------------|
| 9-Black Caulk<br>412103731-0032  | Black Caulk over Tan Caulk                     | Black<br>Non-Fibrous<br>Homogeneous | 100.0 Other       | None                  | No Asbestos Detected |
| 9-Tan Caulk<br>412103731-0033    | Black Caulk over Tan Caulk                     | Tan<br>Non-Fibrous<br>Homogeneous   | 100.0 Other       | None                  | No Asbestos Detected |
| 15<br>412103731-0034             | White Hard Siding Caulk - Plywood              | Gray<br>Non-Fibrous<br>Homogeneous  | 100.0 Other       | None                  | No Asbestos Detected |
| 21-Shingle<br>412103731-0035     | Tar & Shingle Flashing on Parapet Roof & Stone | Red<br>Non-Fibrous<br>Homogeneous   | 100.0 Other       | None                  | No Asbestos Detected |
| 24-Shingle<br>412103731-0036     | Roof Shingles (1 Layer) & Felt (1 Layer)       | Red<br>Fibrous<br>Homogeneous       | 100.0 Other       | None                  | No Asbestos Detected |
| 24-Felt<br>412103731-0037        | Roof Shingles (1 Layer) & Felt (1 Layer)       | Black<br>Fibrous<br>Homogeneous     | 100.0 Other       | None                  | No Asbestos Detected |
| 27<br>412103731-0038             | Felt Layer on Wooden Siding (Felt Only)        | Black<br>Non-Fibrous<br>Homogeneous | 100.0 Other       | None                  | No Asbestos Detected |
| 30-Mastic<br>412103731-0039      | 9"x9" Brown Floor Tile & Brown Mastic          | Tan<br>Non-Fibrous<br>Homogeneous   | 100.0 Other       | None                  | <0.56% Chrysotile    |
| 38-Flooring<br>412103731-0040    | Multiple Layers of Vinyl Floors & Adhesive     | Brown<br>Fibrous<br>Homogeneous     | 100.0 Other       | None                  | No Asbestos Detected |
| 38-Subflooring<br>412103731-0041 | Multiple Layers of Vinyl Floors & Adhesive     | Beige<br>Fibrous<br>Homogeneous     | 100.0 Other       | None                  | No Asbestos Detected |
| 38-Mastic<br>412103731-0042      | Multiple Layers of Vinyl Floors & Adhesive     | Black<br>Non-Fibrous<br>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 15:16:07



**EMSL Analytical, Inc.**

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 412103731  
**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-COS 654 West Main Street; Bldg. #2 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 |
|-----------|-------------|------------|-------------------|-----------------------|----------------|
|-----------|-------------|------------|-------------------|-----------------------|----------------|

Analyst(s)  
Derrick Young (11)

*Lee Plumley*  
Lee Plumley, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC  
Initial report from: 05/13/2021 15:16:07



EMSL Order Number / Lab Use Only

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

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

412103731

|   |   |   |
|---|---|---|
| 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 #2 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             |           | Stucco over CMU Block | PLM                  |
| 2             |           |                       |                      |
| 3             |           |                       |                      |
| 4             |           | Exterior gray caulk   | PLM                  |
| 5             |           |                       |                      |
| 6             |           |                       | TEM                  |
| 7             |           | Black caulk over      | PLM                  |
| 8             |           | tan caulk             |                      |
| 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 3:00 PM  
Received by: [Signature] Date/Time: 5/5/21 9:35 AM

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.  
LABORATORY • PRODUCTS • TRAINING

3731

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            |           | Gray metal door caulk    | PLM                  |
| 11            |           | - right side             | I                    |
| 12            |           |                          | TEM                  |
| 13            |           | White hard siding caulk- | PLM                  |
| 14            |           | plywood                  | I                    |
| 15            |           |                          | TEM                  |
| 16            |           | Flt built up tar &       | PLM                  |
| 17            |           | gravel roof system       | I                    |
| 18            |           |                          | TEM                  |
| 19            |           | Tar & shingle flashing   | PLM                  |
| 20            |           | on parapet roof & stone  | I                    |
| 21            |           |                          | TEM                  |
| 22            |           | Roof Shingles (1 layer)  | PLM                  |
| 23            |           | & felt (1 layer)         | I                    |
| 24            |           |                          | TEM                  |
| 25            |           | Felt layer on wooden     | PLM                  |
| 26            |           | siding (felt only)       | I                    |
| 27            |           |                          | TEM                  |
| 28            |           | 9" x 9" brown floor      | PLM                  |
| 29            |           | tile & brown mastic      | I                    |
| 30            |           |                          | TEM                  |
| 31            |           | Drywall w/ joint         | PLM                  |
| 32            |           | compound                 | I                    |
| 33            |           |                          | I                    |
| 34 & 35       |           |                          | 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 03/19/2021

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 – 654 West Main Street (Building 2) in Spartanburg, South Carolina 29301



Photo 2 – Stucco over CMU blocks



Photo 3 – Stucco over CMU blocks



Photo 4 – Gray caulk on exterior siding & stucco



Photo 5 – Gray caulk on exterior siding & stucco



Photo 6 – Built up tar and gravel roof system





Photo 7 – tar & shingle flashing on the flat roof parapet walls & stone



Photo 8 – Roof shingles & felt on back pitched wooden roof



Photo 9 – Felt paper beneath wooden & vinyl siding



Photo 10 – Black caulk over tan caulk on metal windows

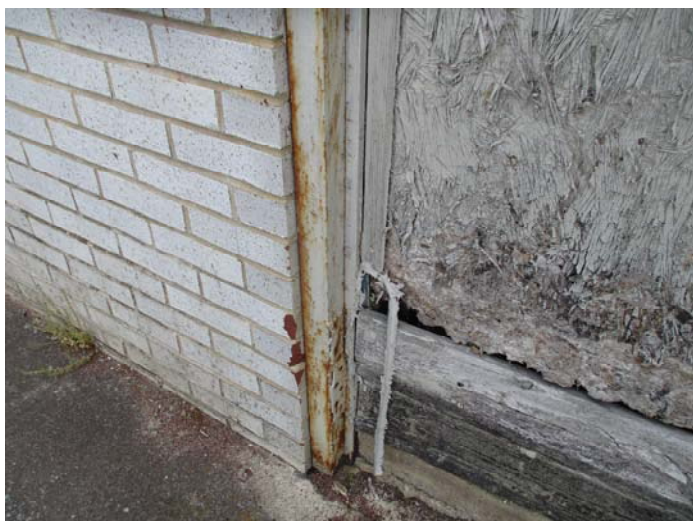


Photo 11 – White hard caulk on wooden plywood siding on left side



Photo 12 – 9" x 9" brown floor tile & brown mastic in the front area





Photo 13 – Typical view of the front area



Photo 14 – Typical view of the back area and drywall walls & ceilings



Photo 15 – Typical view of a bathroom and drywall walls & ceilings



Photo 16 – Multiple layers of roll vinyl flooring & adhesives behind the bar area

**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