

Asbestos & Lead Based Paint Assessment

112 Owens Street Spartanburg, South Carolina 29306

Prepared for:

The City of Spartanburg 440 South Church St., Suite B Spartanburg, SC 29306

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

Project Number: 0118-14

August 14, 2017





7 Winchester Court Mauldin, SC 29662 864.404.3210 office 864.404.3213 fax www.apex-ehs.com

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Environmental Site

Dear Mr. Tillerson: SERVICES

Mr. Jeff Tillerson

Reference:

City of Spartanburg

Spartanburg, SC 29306

440 South Church Street, Suite B

112 Owens Street

Indoor Air QualityApex Environmental Management, Inc. (Apex) is pleased to provide the results
of our assessment services for the referenced property.

Spartanburg, South Carolina 29306

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.

Technaur k. Shullt

Ted Shultz Project Manager

Appendices

Apex Project Number 0118-14

Asbestos and Lead-Based Paint Assessment Services

August 14, 2018

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

CITY OF SPARTANBURG 112 OWENS STREET SPARTANBURG, SOUTH CAROLINA 29306

APEX PROJECT NO. 0118-14

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS EVALUATION REPORT APEX PROJECT NUMBER: 0118-14

| Date: | 8/14/2018 | Page Number: | 1 of 4 | | |
|----------------------------------|--|--|--------------------------------------|--|--|
| Client: Client Address: | City of Spartanburg 440 South Church Street Suite B Spartanburg, SC 29306 | Client Contact: Client Phone Number: | Mr. Jeff Tillerson (864) 596-2911 | | |
| Project: Property Address: | Asbestos Evaluation and Lead Based Paint Assessment 112 Owens Street Spartanburg, SC 29306 | | | | |
| Assessor: | Ted Shultz | Date of Assessment: | 7/11/2018 | | |
| Company: | Apex Environmental Management 7 Winchester Court Mauldin, SC 29662 | Phone Number: | (864) 404-3210 | | |
| Purpose of Assessment: | Demolition | Age of Structure: | Approximately 80 years | | |
| Building Type: | Residential | Number of Stories: | 1 | | |
| Foundation: | CMU Block Crawlspace | Approximate Square Footage | 800 SF | | |
| | | | | | |

EXTERIOR BUILDING MATERIALSPitched wooden roof with shingles & felt.Wooden siding.Wooden windows with glazing.

- Wooden doors with no caulk.
- Black mastic/tar on chimney.

INTERIOR BUILDING MATERIALSVinyl flooring.Wood flooring.Dry wall ceilings and walls.

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, Inc. 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. Forteen (14) 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). CEI 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. 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). Four (4) 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

<u>RESULTS</u>

Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. OSHA defines ACM as a material containing detectable amounts of asbestos. 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. 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:

• Assumed Chimney Mastic

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 μ g/m³) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50 μ g/m³) for employees.

Currently, SCDHEC defines LBP as paint containing in excess of, or equal to, 1.0 mg/cm². The laboratory analytical results and chain-of-custody are included in the Lead Analysis Reports in Appendix II. The approximate locations of the paint samples collected and analytical results are presented in the *LBP Data Table* included with this report.

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

Exterior

None

Interior

• None

RECOMMENDATIONS AND DISCUSSION

Do to the negative results of the samples for asbestos and lead paint Apex has no recommendations.

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

Lead-Based Paint

Currently the South Carolina Department of Health and Environmental Control (SCDHEC) define LBP as paint containing greater than 1.0 milligram per square centimeter (mg/cm²) 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

City of Spartanburg 112 Owens Street Apex Project No. 0118-14

reference the percent lead in paint. Therefore, initial personal air monitoring should be conducted on workers performing work on surfaces which have a lead concentration of 0.1 mg/ 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 (μ g/m³) is established, personal air monitoring may be terminated. The full OSHA lead standard should be referenced for compliance.

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

SECTION II

Asbestos & LBP Data Tables

ASBESTOS SURVEY FIELD DATA SHEET PLM & TEM ANALYSIS

Project Name: COS 112 Owens Street ACM/LBP

Ted Shultz Sampled By:

Project Location: 112 Owens Street, Spartanburg, SC 29306

Project Number: 0118-14

Date: 7/9/2018

| Sample No. | Location | Sample Description | Analytical Results | Friable/Non Friable | Condition | Quantity |
|--|--------------|--|--------------------------------|------------------------|-----------|----------|
| 1 | | | | | | |
| 2 | | | | | Damaged | 1,000 SF |
| 3 | Throughout | Drywall with joint compound & no tape | PLM - NAD | Friable | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | PLM - NAD | | Good | 200 SF |
| 7 | Kitchen | Stone pattern roll vinyl floor with no mastic | FLW - NAD | Non-Friable | | |
| 8 | | | TEM - NAD | | | |
| 9 | | | PLM - NAD | Non-Friable | Good | 60 SF |
| 10 | Pantry | Wooden pattern vinyl floor with no mastic | | | | |
| 11 | | | TEM - NAD | | | |
| 12 | | | PLM - NAD | Non-Friable | Good | 800 SF |
| 13 | Roof | Roof shingles (1 layer) & felt (1 layer) | | | | |
| 14 | | | TEM - NAD | | | |
| Assumed | Roof/chimney | Mastic/tar on 1 chimneys | Assumed | Non-Friable | Good | 6 LF |
| NAD = No Asbestos Detected Bold = Positive For Asbestos | | LF = Linear Feet SF = Square Feet | EA = Each Chry = Chrysotile | Amos = Amosite | | |

Project Manager: Ted Shultz

FIELD DATA SHEET LBP ANALYSIS

 M/LBP
 Sampled By:
 Ted Shultz

 burg, SC 29306
 Project Manager:
 Ted Shultz

 Date:
 7/9/2018

| Sample No. | Sample Location | Component | Color | Substrate | Analytical Result (mg/m ³) |
|------------|-----------------|----------------------------|-------|-----------|---|
| 1 | | Pass | | | |
| 2 | | Calibration | | | 1.07 |
| 3 | | Calibration | | | 1.10 |
| 4 | | 1.11 | | | |
| 5 | Exterior | Siding | Tan | Wood | 0.78 |
| 6 | Front porch | Porch rail | White | Wood | 0.00 |
| 7 | Back porch | orch Porch frame Grey Wood | | | |
| 8 | Back door | Door frame | 0.00 | | |
| 9 | Kitchen | Window frame | White | Wood | 0.00 |

Bold = LBP

Project Name: COS 112 Owens Street ACM/LBP

Project Location: 100 Owens Street, Spartanburg, SC 29306

Project Number: 0118-14

SECTION III

Laboratory Analytical Results

EMSL Order: 411806013 **EMSL** Analytical, Inc. Customer ID: AXEM25 10801 Southern Loop Blvd Pineville, NC 28134 EMSL **Customer PO:** Tel/Fax: (704) 525-2205 / (704) 525-2382 Project ID: http://www.EMSL.com / charlottelab@emsl.com Attention: Ted Shultz **Phone:** (803) 348-4921 Apex Environmental Management Fax: 7 Winchester Court Received Date: 07/26/2018 8:45 AM Mauldin, SC 29662 08/01/2018 Analysis Date: **Collected Date:** 07/11/2018 Project: COS 112 Owens St.

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

| | | | Non-Asbe | stos | Asbestos |
|-------------------------------------|---|-------------------------------------|---------------------------|---|---------------|
| Sample | Description | Appearance | % Fibrous | % Non-Fibrous | % Туре |
| 1-Drywall | Throughout Interior - Drywall/JC | Brown/Gray Fibrous | 4% Cellulose 2% Glass | 94% Non-fibrous (Other) | None Detected |
| 411806013-0001 | | Homogeneous | | | |
| 1-Joint Compound | Throughout Interior - Drywall/JC | Tan Non-Fibrous | 2% Cellulose | 30% Ca Carbonate 68% Non-fibrous (Other) | None Detected |
| 411806013-0001A | | Homogeneous | | | |
| 2-Drywall | Throughout Interior - Drywall/JC | Brown/Gray/White Fibrous | 4% Cellulose 2% Glass | 94% Non-fibrous (Other) | None Detected |
| 411806013-0002 | | Homogeneous | | | |
| 2-Joint Compound 411806013-0002A | Throughout Interior - Drywall/JC | White Non-Fibrous | | 35% Ca Carbonate 65% Non-fibrous (Other) | None Detected |
| | | Homogeneous | | | N 5777 |
| 3-Drywall 411806013-0003 | Throughout Interior - Drywall/JC | Gray Fibrous Homogeneous | 2% Cellulose 2% Glass | 96% Non-fibrous (Other) | None Detected |
| | Throughout Interior | Homogeneous | 10/ Collulass | 10% Co Corbonato | Nono Dotostad |
| 3-Joint Compound | Throughout Interior - Drywall/JC | Tan Non-Fibrous Homogeneous | 1% Cellulose | 40% Ca Carbonate 59% Non-fibrous (Other) | None Detected |
| | Throughout Interior | | | 05% Non Straws (Other) | Nono Detector |
| 4-Drywall 411806013-0004 | Throughout Interior - Drywall/JC | Gray Fibrous Homogeneous | 5% Cellulose | 95% Non-fibrous (Other) | None Detected |
| | Throughout Interior | , v | | 40% Co Corbonata | Nana Datastad |
| 4-Joint Compound 411806013-0004A | Throughout Interior - Drywall/JC | White Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (Other) | None Detected |
| | Throughout Interior - | | 8% Cellulose | 92% Non-fibrous (Other) | None Detected |
| 5-Drywall 411806013-0005 | Drywall/JC | Gray Fibrous Homogeneous | 8% Cellulose | 92% Non-hibrous (Other) | None Delected |
| 5-Joint Compound | Throughout Interior - | White | | 40% Ca Carbonate | None Detected |
| 411806013-0005A | Drywall/JC | Non-Fibrous Homogeneous | | 60% Non-fibrous (Other) | None Delected |
| 6 | Kitchen - Stone | Gray/Beige | 3% Glass | 15% Ca Carbonate | None Detected |
| 411806013-0006 | Pattern Vinyl Flooring | Fibrous Homogeneous | 570 01235 | 82% Non-fibrous (Other) | None Detected |
| 7 | Kitchen - Stone | Gray/Beige | 15% Cellulose | 82% Non-fibrous (Other) | None Detected |
| i - | Pattern Vinyl Flooring | Fibrous | 3% Glass | | NOTE Deletted |
| 411806013-0007 | | Homogeneous | | | |
| 9 | Pantry - Wood Pattern Vinyl Flooring | Brown Fibrous | 20% Cellulose | 80% Non-fibrous (Other) | None Detected |
| 411806013-0008 | | Homogeneous | | | |
| 10 | Pantry - Wood Pattern Vinyl Flooring | Brown Fibrous | 15% Cellulose 2% Glass | 83% Non-fibrous (Other) | None Detected |
| 411806013-0009 | | Homogeneous | | | |
| 12-Shingle | Roof - Shingle & Felt | Gray/Black Fibrous | 12% Glass | 10% Quartz 8% Ca Carbonate | None Detected |
| 411806013-0010 | | Homogeneous | | 70% Non-fibrous (Other) | |
| 12-Felt | Roof - Shingle & Felt | Black Fibrous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 411806013-0010A | | Homogeneous | | | |



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

| | | | Non-Asbe | estos | Asbestos |
|-----------------|-----------------------|------------------------|---------------|--|---------------|
| Sample | Description | Appearance | % Fibrous | % Non-Fibrous | % Туре |
| 13-Shingle | Roof - Shingle & Felt | Gray/Black | 10% Glass | 8% Quartz | None Detected |
| 411806013-0011 | | Fibrous Homogeneous | | 5% Ca Carbonate 77% Non-fibrous (Other) | |
| 13-Felt | Roof - Shingle & Felt | Black Fibrous | 70% Cellulose | 30% Non-fibrous (Other) | None Detected |
| 411806013-0011A | | Homogeneous | | | |

Analyst(s)

Aaron Hartley (10) Anupriya Tyagi (8)

Evan L Plumber

Lee Plumley, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations . Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

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

Initial report from: 08/01/2018 14:16:21



Apex Environmental Management

10801 Southern Loop Blvd Pineville, NC 28134 Tel/Fax: (704) 525-2205 / (704) 525-2382 http://www.EMSL.com / charlottelab@emsl.com EMSL Order: 411806013 Customer ID: AXEM25 Customer PO: Project ID:

 Phone:
 (803) 348-4921

 Fax:
 7

 Received Date:
 07/26/2018
 8:45 AM

 Analysis Date:
 08/03/2018
 08/03/2018

 Collected Date:
 07/11/2018
 08/03/2018

Project: COS 112 Owens St.

7 Winchester Court Mauldin, SC 29662

Attention: Ted Shultz

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 |
|----------------|-------------------------|-------------|-------------------|-----------------------|----------------------|
| 8 | Kitchen - Stone Pattern | Gray | 100 | None | No Asbestos Detected |
| 411806013-0012 | Vinyl Flooring | Fibrous | | | |
| | | Homogeneous | | | |
| 11 | Pantry - Wood Pattern | Brown | 100 | None | No Asbestos Detected |
| 411806013-0013 | Vinyl Flooring | Non-Fibrous | | | |
| | | Homogeneous | | | |
| 14-Shingle | Roof - Shingle & Felt | Black | 100 | None | No Asbestos Detected |
| 411806013-0014 | | Fibrous | | | |
| | | Homogeneous | | | |
| 14-Felt | Roof - Shingle & Felt | Black | 100 | None | No Asbestos Detected |
| 411806013-0015 | | Fibrous | | | |
| | | Homogeneous | | | |

Analyst(s)

Aaron Hartley (4)

Evan L Plumber

Lee Plumley, Laboratory Manager or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 08/03/2018 14:56:40

ASB_PLMEPANOB_0012_0002 Printed 8/3/2018 2:56:43PM

OrderID: 411806013



EMSL ANALYTICAL, INC.

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

10801 Southern Loop Blvd

Pineville, NC 28134 PHONE: (704) 525-2205 FAX: (704) 525-2382

411806013

| Company : Apex Environmental Management | | | EMSL-Bill to: Same I Different If Bill to is Different note instructions in Comments** | | | | | |
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| Report To | (Name): | Ted Shultz | | | Telephone #: 864-404-3210 | | | |
| | Email Address: tshultz@apex-ehs.com | | | | Fax #: | | Purch | hase Order: |
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| Comments/Special Instructions: BillTo: Apex Environmental Management, 7 Winchester Court, Mauldin, SC, 29662, US Attention: Rebecca Shultz Phone: 864-404-3210 Email: rshultz@apex-ehs.com Purchase Order. | | | | | | 7955 | 2904 4295 | |
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| Page 1 of p | | | | bages | | | | |

Page 1 Of

2

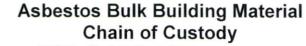
OrderID: 411806013

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EMSL

EMSL ANALYTICAL, INC.

BORATORY . PRODUCTS . TR



EMSL Order Number (Lab Use Only):

10801 Southern Loop Blvd

Pineville, NC 28134 PHONE: (704) 525-2205 FAX: (704) 525-2382

411806013

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

| Sample # | HA # | Sample Location | Material Description |
|-----------------|---------------|---|--|
| 9 | | Pantry | Wood Pattern Ving |
| 10 | | | Floorin |
| 11 | 5. | | |
| 12 | | Roof | Shingle : Felt |
| 13 | | | |
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| L | | Page of pages | |
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SECTION IV

Photographic Log



Photo 1 – 112 Owens Street in Spartanburg, South Carolina.



Photo 2 – Drywall, joint compound and tape.



Photo 3 – Kitchen flooring.



Photo 4 – Pantry flooring.



Photo 5 – Roof shingle and felt.



Photo 6 – Buckets of oil in front yard.

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED Asbestos ID Card

Tedman K Shultz



CONSULTBI BI-00971 AIRSAMPLER AS-00355

Expiration Date: 01/17/19 02/23/19