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Apex Project Number 0920-148

September 25, 2020

Mr. David Cook
City of Spartanburg Fire Station 2
905 Union Street
Spartanburg, South Carolina 29302

Reference: Limited Asbestos Assessment
City of Spartanburg Fire Station 2
905 Union Street
Spartanburg, South Carolina 29302

Dear Mr. Cook,

Apex Environmental Management, Inc. (Apex) has completed a limited asbestos assessment at the above-referenced property. The survey was limited to the areas on the roof of the building. Included in this report is a summary of our field activities and the results obtained. The objectives of the survey included the following:

- Identification of suspect asbestos-containing material (ACM) in readily observable locations on the roof. Limited demolition of building materials was conducted on the roof of the building during the assessment.
- Asbestos assessment with sample collection by a South Carolina Department of Health & Environmental Control 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.
- Presenting the results in a report identifying confirmed ACMs.

Project Information

The survey was conducted on the roof of the City of Spartanburg Fire Station 2 located at 905 Union Street in Spartanburg, South Carolina. Due to a planned roof replacement activity, an asbestos assessment is required per SC DHEC Regulations.

Procedure/Methodology

Apex was requested to perform a limited asbestos assessment on the roof to identify asbestos-containing materials (ACM) which could be disturbed prior to or during scheduled renovation activities. The National Emission Standard for Hazardous Air Pollutants (NESHAP) requires the identification of friable ACM and non-friable ACM likely to become friable during demolition and/or renovation activities. NESHAP requires that the identified ACM be removed prior to initiating activities likely to disturb ACM.

- As per AHERA regulations, bulk asbestos samples were collected from random locations of each homogeneous area, with the material's number of samples based upon the following criteria:
- Thermal Insulation Materials (piping, breeching, boiler insulation, etc.) – A minimum of three (3) samples are required. Only patch areas (less than 6 square or linear feet) may have one (1) sample collected.
- Surfacing Materials (plaster, fireproofing, sheetrock and joint compound, etc.) – A minimum of seven (7) samples are to be taken for areas greater than 5,000 square feet; five (5) for areas greater than 1,000 square feet, but less than 5,000 square feet; three (3) for areas less than 1,000 square feet.
- Miscellaneous Materials (flooring, adhesives, roofing, floor tiles, etc.) – A minimum of three (3) samples are required.
 - If samples of non-friable organically bound (NOB) materials were collected and reported by the laboratory to contain less than 1% asbestos by PLM, these materials were re-analyzed in accordance with SCDHEC requirements for NOB's by transmission electron microscopy (TEM).

The limited asbestos survey was performed by Mr. Tom Oliver (SC inspector license # BI-00680, exp. 01/15/2021) and Ms. Stephanie Hamby (SC inspector license # BI-01894, exp. 01/14/2021) on September 8, 2020. The survey consisted of observing the accessible areas of the roof of the structure that may potentially be disturbed during the scheduled roof replacement activities for the presence of suspect materials which may contain asbestos. The survey involved detecting both friable materials (materials which can be crumbled, pulverized or reduced to a powder by hand pressure when dry) and non-friable materials (materials which pose a hazard when sawn, sanded, drilled or pulverized). Homogeneous materials (based on material type, color, texture, etc.) were identified in various functional spaces during the survey.

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. Eighteen (18) bulk samples were collected during the survey and submitted to EMSL in Charlotte, 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. Due to EPA regulations, samples are split into homogeneous layers and each layer is analyzed separately. Twenty-seven (27) 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). Ten (10) samples were analyzed using TEM.

Results

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

Suspect building materials identified to contain asbestos are:

- Approximately 100 SF of roof flashing.

Recommendations and Discussion

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 from the structure prior to roof replacement activities.
2. Follow applicable asbestos regulations during this project. 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. SCDHEC regulations require the accreditation of personnel who work in the asbestos field and notification and permitting fees for asbestos removal projects. Failure to take proper precautions and actions to protect human health and the environment can result in penalties, danger to personnel, and construction delays.
3. Follow SCDHEC regulations for disposal of asbestos containing materials.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for abatement. If you are planning an asbestos 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. **Quantities provided in this report are estimated. Contractors must verify material amounts prior to bidding or removal.** 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 spaces. 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, SCDHEC or OSHA asbestos regulations.

Limited Asbestos Assessment Report
City of Spartanburg Fire Station 2
Spartanburg, South Carolina
September 25, 2020

Apex appreciates the opportunity to provide you with our asbestos consulting services and looks forward to our continued association. If you have any questions about this report or any other industrial hygiene concerns please contact us at (864) 404-3210.

Sincerely,
Apex Environmental Management, Inc.



Stephanie Hamby
Project Manager



Tom Oliver
Vice President

Appendix I	PLM & TEM Asbestos Data Table
Appendix II	Laboratory Analytical Results & Chain of Custody
Appendix III	Photographic Log
Appendix IV	SC DHEC Asbestos Inspector Licenses

APPENDIX I

PLM & TEM ASBESTOS DATA TABLE

ASBESTOS SURVEY FIELD DATA SHEET PLM & TEM ANALYSIS

Project Name: City of Spartanburg Fire Station 2

Sampled By: Stephanie Hamby

Project Location: 905 Union Street, Spartanburg, SC 29302

Project Manager: Tom Oliver

Project Number: 0920-148

Date: 9/8/2020

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof field	Built up roof system with gray patch/sealant	PLM - NAD	Non Friable	Good	5,500 SF
2			TEM - NAD			
3						
4	Roof edges	Roof caulk	PLM - NAD	Non Friable	Good	295 LF
5			TEM - NAD			
6						
7	HVAC	Gray sealant on metal HVAC duct	PLM - NAD	Non Friable	Good	5 SF
8			TEM - NAD			
9						
10	HVAC	White sealant on metal HVAC duct and unit	PLM - NAD	Friable	Good	10 SF
11						
12						
13	Roof	Roof flashing	PLM - 5% Chrysotile (Tar), 50% Chrysotile (Fibrous Layer); NAD (Top Roofing Layer & Felt)	Non Friable	Good	100 SF
14			TEM - 0.57% Chrysotile (Top roofing layer); NAD (felt)			
15						
16	On top of Metal Roof Flashing	Gray caulk on flashing	PLM - NAD	Non Friable	Good	80 LF
17			TEM - NAD			
18						

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

Bold = Positive For Asbestos

SF = Square Feet

APPENDIX II

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: 412007633

Customer ID: AXEM25

Customer PO:

Project ID:

Attention: Tom Oliver

Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Phone: (864) 640-5274

Fax:

Received Date: 09/09/2020 9:50 AM

Analysis Date: 09/15/2020 - 09/16/2020

Collected Date: 09/08/2020

Project: 0920-148 Fire Station #2 Limited Roof ACM

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-Red Layer 412007633-0001	Built Up Roof System with Gray Patch/Sealant	Red/Black Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
1-Cellulose Layer 412007633-0001A	Built Up Roof System with Gray Patch/Sealant	Black Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
1-Foam Insulation 412007633-0001B	Built Up Roof System with Gray Patch/Sealant	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-Tar Layer 412007633-0001C	Built Up Roof System with Gray Patch/Sealant	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
1-Cellulose Insulation 412007633-0001D	Built Up Roof System with Gray Patch/Sealant	Brown/Gray Non-Fibrous Homogeneous	90% Cellulose	5% Perlite 5% Non-fibrous (Other)	None Detected
2-Red Layer 412007633-0002	Built Up Roof System with Gray Patch/Sealant	Red Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
2-Cellulose Layer 412007633-0002A	Built Up Roof System with Gray Patch/Sealant	Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2-Foam Insulation 412007633-0002B	Built Up Roof System with Gray Patch/Sealant	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-Tar Layer 412007633-0002C	Built Up Roof System with Gray Patch/Sealant	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
2-Cellulose Insulation 412007633-0002D	Built Up Roof System with Gray Patch/Sealant	Gray/Black Non-Fibrous Homogeneous	90% Cellulose	5% Perlite 5% Non-fibrous (Other)	None Detected
2-Tan Cellulose Layer 412007633-0002E	Built Up Roof System with Gray Patch/Sealant	Gray/Tan Fibrous Homogeneous	65% Cellulose	15% Ca Carbonate 20% Non-fibrous (Other)	None Detected
3-Foam Insulation 412007633-0002F	Built Up Roof System with Gray Patch/Sealant	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-Tan Cellulose Layer 412007633-0002G	Built Up Roof System with Gray Patch/Sealant	Tan/White Non-Fibrous Homogeneous	85% Cellulose	10% Ca Carbonate 5% Non-fibrous (Other)	None Detected
4 412007633-0003	Roof Caulk on Roof Edges	Gray/Tan Non-Fibrous Homogeneous	5% Cellulose	20% Ca Carbonate 75% Non-fibrous (Other)	None Detected
5 412007633-0004	Roof Caulk on Roof Edges	White Non-Fibrous Homogeneous		12% Ca Carbonate 88% Non-fibrous (Other)	None Detected
7-White Sealant 412007633-0005	Gray Sealant on Metal HVAC Duct	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected

Initial report from: 09/16/2020 11:14:28



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: 412007633

Customer ID: AXEM25

Customer PO:

Project ID:

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
7-Grey Sealant <i>412007633-0005A</i>	Gray Sealant on Metal HVAC Duct	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-White Sealant <i>412007633-0006</i> <i>No gray sealant present</i>	Gray Sealant on Metal HVAC Duct	White Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
10 <i>412007633-0007</i>	White Sealant on Metal HVAC Duct & Unit	Gray/Red Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
11 <i>412007633-0008</i>	White Sealant on Metal HVAC Duct & Unit	Gray/Red Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
13-Top Roofing Layer <i>412007633-0009</i>	Roof Flashing	Black Non-Fibrous Homogeneous	50% Cellulose 10% Glass	40% Non-fibrous (Other)	None Detected
13-Tar <i>412007633-0009A</i>	Roof Flashing	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
13-Felt <i>412007633-0009B</i>	Roof Flashing	Black Non-Fibrous Homogeneous	50% Glass	50% Non-fibrous (Other)	None Detected
13-Fibrous Layer <i>412007633-0009C</i>	Roof Flashing	Black Non-Fibrous Homogeneous	3% Glass	47% Non-fibrous (Other)	50% Chrysotile
14-Tar <i>412007633-0010</i>	Roof Flashing				Positive Stop (Not Analyzed)
14-Felt <i>412007633-0010A</i>	Roof Flashing	Brown/Black Fibrous Homogeneous	50% Glass	50% Non-fibrous (Other)	None Detected
14-Fibrous Layer <i>412007633-0010B</i>	Roof Flashing				Positive Stop (Not Analyzed)
16 <i>412007633-0011</i>	Gray Caulk on Flashing	Gray Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
17 <i>412007633-0012</i>	Gray Caulk on Flashing	Gray Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected

Lee Plumley, Laboratory Manager
or Other Approved Signatory

Analyst(s)

Brant Alyea (17)

James Kincheloe (10)

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: 09/16/2020 11:14:28



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

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EMSL Order: 412007633

Customer ID: AXEM25

Customer PO:

Project ID:

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

Phone: (864) 640-5274

Fax:

Received Date: 09/09/2020 9:50 AM

Analysis Date: 09/17/2020

Collected Date: 09/08/2020

Project: 0920-148 Fire Station #2 Limited Roof ACM

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-Red Layer 412007633-0013	Built Up Roof System with Gray Patch/Sealant	Red Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Cellulose Layer 412007633-0014	Built Up Roof System with Gray Patch/Sealant	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
3-Tar Layer 412007633-0015	Built Up Roof System with Gray Patch/Sealant	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
6 412007633-0016	Roof Caulk on Roof Edges	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9-White Sealant 412007633-0017	Gray Sealant on Metal HVAC Duct	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
9-Gray Sealant 412007633-0018	Gray Sealant on Metal HVAC Duct	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
12 412007633-0019	White Sealant on Metal HVAC Duct & Unit	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
15-Top Roofing Layer 412007633-0020	Roof Flashing	Black Non-Fibrous Homogeneous	99.43 Other	None	0.57% Chrysotile
15-Felt 412007633-0021	Roof Flashing	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
18 412007633-0022	Gray Caulk on Flashing	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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: 09/17/2020 12:59:39



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: 412007633

Customer ID: AXEM25

Customer PO:

Project ID:

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

Phone: (864) 640-5274

Fax:

Received Date: 09/09/2020 9:50 AM

Analysis Date: 09/17/2020

Collected Date: 09/08/2020

Project: 0920-148 Fire Station #2 Limited Roof ACM

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
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Analyst(s)

Aaron Hartley (10)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 09/17/2020 12:59:39

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAININGAsbestos Bulk Building Material
Chain of Custody

EMSL Order Number (lab use only):

412007633

Pineville, NC 28134
Phone (704) 525-2205
Fax (704) 525-2382

Company Name : Apex Environmental Management, Inc.		EMSL Customer ID:	
Street: 7 Winchester Court		City: Mauldin	State or Province: SC
Zip/Postal Code: 29662	Country: US	Telephone #: 864-404-3210	Fax #: 864-404-3213
Report To (Name): Tom Oliver		Please Provide Results via: <input type="checkbox"/> Fax <input type="checkbox"/> Email	
email Address: tolover@apex-ehs.com		Purchase Order Number:	
Client Project ID: 0920-148 Fire Station #2 Limited Roof ACM		EMSL Project ID (internal use only):	
State or Province Collected: SC		CT only <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different - If bill to is different note instructions in comment. Third party billing requires written authorization from third party			
Turnaround Time (TAT) Options Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 32 Hour* <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*32 Hour TAT available for select tests only; samples must be submitted by 11:30am. Please call ahead for large projects and/or turnaround times 6 hours or less.</small>			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1- friable - NY <input type="checkbox"/> NY ELAP Method 198.6 NOB- non-friable - NY <input type="checkbox"/> NY ELAP Method 198.8- Vermiculite Surfacing Material <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> EMSL Standard Addition Method		<input checked="" type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 non-friable - NY <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique Other tests (please specify) <input type="checkbox"/>	
<input checked="" type="checkbox"/> Positive Stop - Clearly Identify Homogenous Areas (HA)		Date Sampled: 9-8-2020	
Sampler's Name: Tom Oliver		Sampler's Signature:	
Sample #	HA #	Sample Location	Material Description
1		Built up roof system with gray patch/sealant	PLM
2			I
3			TEM
4		Roof caulk on roof edges	PLM
5			I
6			TEM
Client Sample # (s): 1-18		Total # of Samples: 18	
Relinquished by (Client):		Date: 9-8-2020	Time: 1:30 PM
Received by (Lab):		Date: 9/9/20	Time: 9:50 AM EMSL FL
Comments/Special Instructions: <small>Positive stop on all analysis Bill To: Apex Environmental Management, Inc., 7 Winchester Court, Mauldin, SC, 29662, US Attention: Tom Oliver Phone 8644043210 Email tolover@apex-ehs.com Purchase Order:</small>			

7959 2729 2740

Page 1 of 2

APPENDIX III

PHOTOGRAPHIC LOG

Limited Roofing Asbestos Assessment
Fire Station #2, 905 Union Street
Spartanburg, South Carolina 29302



Photo 1 – City of Spartanburg Fire Station 2 located in Spartanburg, SC.



Photo 2 – View of bottom roof field.



Photo 3 – View of upper roof field.



Photo 4 – Roof sample.



Photo 5 – Close up of the roof sample.



Photo 6 – Roof core sample.



Photo 7 – Roof caulk on roof edges.



Photo 8 – Gray sealant on HVAC duct.



Photo 9 – White sealant on HVAC duct.



Photo 10 – Roof flashing between roof transition.



Photo 11 – Roof flashing at chimney.



Photo 12 – Gray caulk on flashing.



Photo 13 – Interior of roof flashing.

APPENDIX IV

SC DHEC ASBESTOS INSPECTOR LICENSES

SCDHEC ISSUED

Asbestos ID Card

Thomas H Oliver



AIRSAMPLER AS-00202
CONSULTBI BI-00680

Expiration Date:
06/18/21
01/15/21

This card is nontransferable and is considered invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information of corrections contact: SCDHEC – Asbestos Section
2600 Bull Street
Columbia, SC 29201
(803) 898-4289

SCDHEC ISSUED

Asbestos ID Card

STEPHANIE HAMBY



**AIRSAMPLER
CONSULTBI**

**AS-000632
BI-01894**

Expiration Date:

**08/13/21
01/15/21**