



Asbestos & Lead Based Paint Assessment

City of Spartanburg
773 Saxon Avenue
Spartanburg, South Carolina

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

March 12, 2017





Apex Project Number 0118-14

March 12, 2018

7 Winchester Court
Mauldin, SC 29662
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Mr. Jeff Tillerson
City of Spartanburg
440 South Church Street, Suite B
Spartanburg, SC 29306

Reference: Asbestos and Lead-Based Paint Assessment Services
773 Saxon Avenue
Spartanburg, South Carolina

SERVICES

- Indoor Air Quality
- Mold Remediation
- Asbestos & Lead
- Industrial Hygiene
- Worker Health & Safety
- Mold Consulting
- Moisture Management Plans
- Safety Assessment
- Environmental Site Assessments
- Hazard Communication

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.

A handwritten signature in blue ink, appearing to read 'Tom Oliver', is written over a horizontal line.

Tom Oliver
Director of Operations

Appendices

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
773 SAXON AVENUE
SPARTANBURG, SOUTH CAROLINA**

APEX PROJECT NO. 0118-14

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS EVALUATION REPORT APEX PROJECT NUMBER: 0118-14
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Date:	3/12/2018	Page Number:	1 of 4
Client:	City of Spartanburg	Client Contact:	Mr. Jeff Tillerson
Client Address:	440 South Church Street Suite B Spartanburg, SC 29306	Client Phone Number:	(864) 596-2911
Project:	Asbestos Evaluation and Lead Based Paint Assessment		
Property Address:	773 Saxon Avenue Spartanburg, SC		
Assessor:	Tom Oliver	Date of Assessment:	1/31/2018
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 100 years
Building Type:	Residential	Number of Stories:	1
Foundation:	Crawlspace	Approximate Square Footage:	1,500 SF

EXTERIOR BUILDING MATERIALS

- Pitched wooden roof with shingles & felt.
- Cement board siding over felt paper with wooden siding beneath.
- Wooden windows with glazing and caulk.
- Wooden doors with no caulk.
- Black mastic on roof flashing.
- A portion of the back of the house is collapsed due to fire and structural damage.

INTERIOR BUILDING MATERIALS

- Drywall and joint compound wall and ceiling system with plaster & finish beneath.
- Wooden wall panels with no mastic with drywall and plaster beneath.
- Wall texture over wooden wall panels, drywall & plaster.
- Black mastic dots under drywall.
- Multiple types & layers of vinyl flooring with and without mastics.
- Fire damage and portions of the floors, walls and ceilings have collapsed.
- Debris throughout the residence is considered to be contaminated ACM.

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 CEI Labs (CEI) as an NVLAP certified laboratory, their accreditation number is 101768-0.
- Transmission electron microscopy (TEM) analysis of non-friable organically bound materials suspected to contain asbestos and testing negatively by PLM analysis.
- Lead inspection by a lead inspector certified by the Environmental Protection Agency and licensed to conduct LBP surveys in South Carolina.
- In situ analysis of suspected lead based paints by X-ray fluorescence (XRF).
- Presenting the results in a report identifying confirmed ACMs and LBPs.

METHODS

Asbestos Containing Materials

In order to determine if the suspect materials observed during the visual survey contained asbestos, representative bulk samples were collected and placed in sealed packages. Fifty-four (54) bulk samples were collected during the survey and submitted to CEI in Cary, 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 101768-0. 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). Sixteen (16) samples were analyzed using TEM.

Lead-Based Paint

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

RESULTS

Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. OSHA defines ACM as a material containing detectable amounts of asbestos. Materials were analyzed to contain less than 1% asbestos and it should be noted that OSHA asbestos regulations will apply. A specific *PLM and TEM Data Table* is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

The residence has fire and structural damage in the back portion and throughout the residence. ACM was identified to exist in the back portion of the residence where the floors, ceilings and walls are collapsed. Apex recommends that the building be demolished in place and materials

be treated and disposed of as friable ACM.

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

- Approximately 3,800 SF of drywall system and contaminated debris within the structure.
- Approximately 215 SF of 12" x 12" brown thin pattern floor tile in the main hallway.
- Approximately 215 SF of yellow pattern vinyl floor with no mastic in the front right bedroom under carpet.
- Approximately 300 SF of 3 layers of vinyl flooring with & without mastics in the back damaged area.
- Approximately 11 wooden windows with glazing.
- Approximately 1,700 SF of exterior cement board siding.

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, SCDHEC defines LBP as paint containing in excess of, or equal to, $1.0 \text{ mg}/\text{cm}^2$. 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 white wooden porch ceiling, porch columns & porch headers.
- Exterior white wooden window frames.
- Exterior white wooden soffit/fascia.

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. Demolish the residence with ACM in place and dispose of the waste stream as friable Regulated Asbestos Containing Materials (RACM) and delivered to an asbestos approved hazardous waste landfill for disposal.

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.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for asbestos 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 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/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 773 Saxon Avenue ACM/LBP

Sampled By: Tom Oliver

Project Location: 773 Saxon Avenue, Spartanburg, SC

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 1/31/2018

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roof shingles (2 layers) and felt (1 layer)	PLM - NAD	Non-Friable	Good	2,000 SF
2			TEM - NAD			
3						
4	Exterior windows	Window glazing	PLM - 2% chrysotile	Non-Friable	Good	11 EA
5						
6						
7	Exterior windows	Window caulk	PLM - NAD	Non-Friable	Good	2 EA
8			TEM - NAD			
9						
10	Exterior siding	Cement board siding	PLM - 15% chrysotile	Non-Friable	Good	1,700 SF
11						
12						
13	Exterior siding	Felt paper beneath cement board siding	PLM - NAD	Non-Friable	Good	1,700 SF
14			TEM - NAD			
15						
16	Roof flashing	Black mastic on roof flashing	PLM - NAD	Non-Friable	Good	30 LF
17			TEM - <1% chrysotile			
18						
19	Throughout	Drywall with joint compound & tape	3% chrysotile	Friable	Damaged	3,800 SF
20						
21						
22						
23						

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

Project Name: COS 773 Saxon Avenue ACM/LBP

Sampled By: Tom Oliver

Project Location: 773 Saxon Avenue, Spartanburg, SC

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 1/31/2018

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24	Throughout	Plaster with finish	PLM - NAD	Friable	Significantly Damaged	4,200 SF
25						
26						
27						
28						
29	Main hallway	Black mastic dots behind drywall walls	PLM - NAD	Non-Friable	Good	475 SF
30			TEM - NAD			
31						
32	Main hallway	12" x 12" brown thin pattern floor tile & adhesive	PLM - 5% chry (floor tile); NAD (mastic)	Friable	Significantly Damaged	215 SF
33			TEM - NAD (mastic)			
34						
35	Main hallway, front left & right bedrooms & kitchen	Wall texture	PLM - NAD	Friable	Good	1,800 SF
36						
37						
38						
39						
40	Front right bedroom under carpet	Yellow pattern vinyl floor with no mastic	PLM - 25% chrysotile	Non-Friable	Good	215 SF
41						
42						
43	Dining room in front of kitchen	Beige paisley pattern vinyl floor with no mastic	PLM - NAD	Non-Friable	Good	215 SF
44			TEM - NAD			
45						

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

Project Name: COS 773 Saxon Avenue ACM/LBP

Sampled By: Tom Oliver

Project Location: 773 Saxon Avenue, Spartanburg, SC

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 1/31/2018

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
46	Kitchen - top layer	Brown pattern vinyl floor with no mastic	PLM - NAD	Friable	Significantly Damaged	150 SF
47			TEM - NAD			
48						
49	Kitchen - under wood (2nd & 3rd layers)	Yellow pattern floor tile & mastic over yellow pattern vinyl floor with no mastic	PLM - NAD	Friable	Significantly Damaged	150 SF
50			TEM - NAD			
51						
52	Back damaged area	3 layers of vinyl flooring with & without mastics	PLM - bottom layer-5% chry (flooring); 2% chry (mastic)	Friable	Significantly Damaged	300 SF
53			TEM - <1% chry (top 2 layers)			
54						

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

Amos = Amosite

Bold = Positive For Asbestos

SF = Square Feet

Chry = Chrysotile

FIELD DATA SHEET

LBP ANALYSIS

Project Name: COS 773 Saxon Avenue ACM/LBP

Sampled By: Tom Oliver

Project Location: 773 Saxon Avenue Spartanburg, SC

Project Manager: Tom Oliver

Project Number: 0417-66

Date: 1/31/2018

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
1	Standardization Calibration				186.00
2	Calibration				1.10
3	Calibration				1.11
4	Calibration				1.21
5	Exterior	Porch ceiling	White	Wood	1.98
6	Exterior	Porch column	White	Wood	2.58
7	Exterior	Porch handrail	White	Wood	0.00
8	Exterior	Porch floor	Brown	Wood	0.01
9	Exterior	Door frame	White	Wood	0.00
10	Exterior	Door	White	Wood	0.00
11	Exterior	Window frame	White	Wood	1.00
12	Exterior	Window	White	Wood	0.05
13	Exterior	Porch header	White	Wood	2.64
14	Exterior	Siding	White	Cement board	0.00
15	Exterior	Foundation	Blue	Concrete	0.00
16	Exterior	Porch floor trim	Blue	Wood	0.00
17	Exterior	Siding	Yellow	Wood	0.25
18	Exterior	Trim	White	Wood	2.24
19	Exterior	Soffit/Fascia	White	Wood	2.42
20	Interior	Wall	Gray	Drywall	0.00
21	Interior	Ceiling	Gray	Drywall	0.00
22	Interior	Door frame	Gray	Wood	0.78
23	Interior	Door	Gray	Wood	0.00
24	Interior	Wall	White	Wooden panel	0.00

FIELD DATA SHEET

LBP ANALYSIS

Project Name: COS 773 Saxon Avenue ACM/LBP

Sampled By: Tom Oliver

Project Location: 773 Saxon Avenue Spartanburg, SC

Project Manager: Tom Oliver

Project Number: 0417-66

Date: 1/31/2018

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
25	Interior	Wall	Blue	Drywall	0.00
26	Interior	Window frame	White	Wood	0.26
27	Interior	Window	White	Wood	0.09
28	Interior	Fireplace	Brown	Wood	0.09
29	Interior	Door frame	Brown	Wood	0.12
30	Interior	Wall	Brown	Plaster	0.00
31	Interior	Wall	Gray	Wooden panel	0.00
32	Interior	Base board	White	Wooden panel	0.07
33	Interior	Fireplace	Gray	Wooden panel	0.04
34	Interior	Wall	Yellow	Plaster	0.15
35	Interior	Wall	Gray	Plaster	0.16
36	Interior	Ceiling	Gray	Plaster	0.00
37	Interior	Base board	Gray	Wood	0.15
38	Interior	Window frame	Gray	Wood	0.16
39	Interior	Window	Gray	Wood	0.00
40	Calibration				1.11
41	Calibration				1.11
42	Calibration				1.15

Bold = LBP

SECTION III

Laboratory Analytical Results

February 15, 2018

Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

CLIENT PROJECT: COS 773 Saxon Ave ACM/LBP; 0118-14
CEI LAB CODE: A18-2203

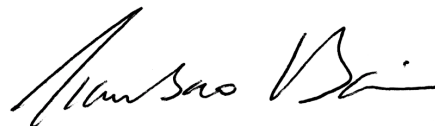
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on February 8, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 773 Saxon Ave ACM/LBP; 0118-14

LAB CODE: A18-2203

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 02/15/18

TOTAL SAMPLES ANALYZED: 35

SAMPLES >1% ASBESTOS: 7

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 773 Saxon Ave ACM/LBP; 0118-14 **LAB CODE:** A18-2203

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1		A2620864A	Black	Roof Shingle	None Detected
	Layer 1	A2620864B	Black	Roof Shingle	None Detected
	Layer 2	A2620864B	Black	Felt	None Detected
2		A2620865A	Black	Roof Shingle	None Detected
	Layer 1	A2620865B	Black	Roof Shingle	None Detected
	Layer 2	A2620865B	Black	Felt	None Detected
3		A2620866		Sample Submitted for TEM Analysis	
4		A2620867	White	Window Glazing	Chrysotile 2%
5		A2620868		Sample Not Analyzed per COC	
6		A2620869		Sample Not Analyzed per COC	
7		A2620870	White	Window Caulk	None Detected
8		A2620871	White	Window Caulk	None Detected
9		A2620872		Sample Submitted for TEM Analysis	
10		A2620873	White,Gray	Cement Board Siding	Chrysotile 15%
11		A2620874		Sample Not Analyzed per COC	
12		A2620875		Sample Not Analyzed per COC	
13		A2620876	Black	Felt Paper	None Detected
14		A2620877	Black	Felt Paper	None Detected
15		A2620878		Sample Submitted for TEM Analysis	
16		A2620879	Black	Mastic	None Detected
17		A2620880	Black	Mastic	None Detected
18		A2620881		Sample Submitted for TEM Analysis	
19	Layer 1	A2620882	White	Joint Compound	None Detected
	Layer 2	A2620882	White	Tape	None Detected
	Layer 3	A2620882	White	Drywall	None Detected
20	Layer 1	A2620883	Beige	Joint Compound	Chrysotile 3%
	Layer 2	A2620883	White	Tape	None Detected
	Layer 3	A2620883	White	Drywall	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 773 Saxon Ave ACM/LBP; 0118-14 LAB CODE: A18-2203

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
21		A2620884		Sample Not Analyzed per COC	
22		A2620885		Sample Not Analyzed per COC	
23		A2620886		Sample Not Analyzed per COC	
24	Layer 1	A2620887	White	Finish	None Detected
	Layer 2	A2620887	Gray	Plaster	None Detected
25	Layer 1	A2620888	White	Finish	None Detected
	Layer 2	A2620888	Tan	Plaster	None Detected
26	Layer 1	A2620889	White	Finish	None Detected
	Layer 2	A2620889	Gray	Plaster	None Detected
27	Layer 1	A2620890	White	Finish	None Detected
	Layer 2	A2620890	Tan	Plaster	None Detected
28	Layer 1	A2620891	White	Finish	None Detected
	Layer 2	A2620891	Tan	Plaster	None Detected
29		A2620892	Black	Mastic Dots	None Detected
30		A2620893	Black	Mastic Dots	None Detected
31		A2620894		Sample Submitted for TEM Analysis	
32		A2620895A	Brown, Patterned	Floor Tile	Chrysotile 5%
		A2620895B	Clear	Adhesive	None Detected
33		A2620896A		Sample Not Analyzed per COC	
		A2620896B	Clear	Adhesive	None Detected
34		A2620897A		Sample Not Analyzed per COC	
		A2620897B		Sample Submitted for TEM Analysis	
35		A2620898	White	Wall Texture	None Detected
36		A2620899	White	Wall Texture	None Detected
37		A2620900	White	Wall Texture	None Detected
38		A2620901	White	Wall Texture	None Detected
39		A2620902	Brown	Wall Texture	None Detected
40		A2620903	Yellow, Patterned	Vinyl Flooring	Chrysotile 25%



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 773 Saxon Ave ACM/LBP; 0118-14 LAB CODE: A18-2203

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
41		A2620904		Sample Not Analyzed per COC	
42		A2620905		Sample Not Analyzed per COC	
43		A2620906	Beige,Paisley	Vinyl Flooring	None Detected
44		A2620907	Beige,Paisley	Vinyl Flooring	None Detected
45		A2620908		Sample Submitted for TEM Analysis	
46		A2620909	Brown, Patterned	Vinyl Flooring	None Detected
47		A2620910	Brown, Patterned	Vinyl Flooring	None Detected
48		A2620911		Sample Submitted for TEM Analysis	
49		A2620912A	Yellow, Patterned	Floor Tile	None Detected
		A2620912B	Clear	Mastic	None Detected
		A2620912C	Orange, Patterned	Vinyl Flooring	None Detected
50		A2620913A	Yellow, Patterned	Floor Tile	None Detected
		A2620913B	Clear	Mastic	None Detected
		A2620913C	Orange, Patterned	Vinyl Flooring	None Detected
51		A2620914		Sample Submitted for TEM Analysis	
52		A2620915A	White,Blue	Vinyl Flooring	None Detected
		A2620915B	Beige	Floor Tile	None Detected
		A2620915C	Clear	Mastic	None Detected
	Layer 1	A2620915D	Brown, Patterned	Vinyl Flooring	Chrysotile 25%
	Layer 2	A2620915D	Beige	Mastic	Chrysotile 2%
53		A2620916A	White,Blue	Vinyl Flooring	None Detected
		A2620916B	Beige	Floor Tile	None Detected
		A2620916C	Clear	Mastic	None Detected
		A2620916D		Sample Not Analyzed per COC	



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 773 Saxon Ave ACM/LBP; 0118-14 **LAB CODE:** A18-2203

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
54		A2620917A		Sample Submitted for TEM Analysis	
		A2620917B		Sample Submitted for TEM Analysis	
		A2620917C		Sample Submitted for TEM Analysis	
		A2620917D		Sample Not Analyzed per COC	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
1 A2620864A	Roof Shingle	Heterogeneous Black Fibrous Bound	20%	Fiberglass	55%	Tar	None Detected
					25%	Gravel	
Layer 1 A2620864B	Roof Shingle	Heterogeneous Black Fibrous Bound	20%	Fiberglass	55%	Tar	None Detected
					25%	Gravel	
Layer 2 A2620864B	Felt	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
2 A2620865A	Roof Shingle	Heterogeneous Black Fibrous Bound	20%	Fiberglass	55%	Tar	None Detected
					25%	Gravel	
Layer 1 A2620865B	Roof Shingle	Heterogeneous Black Fibrous Bound	20%	Fiberglass	55%	Tar	None Detected
					25%	Gravel	
Layer 2 A2620865B	Felt	Homogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
3 A2620866	Sample Submitted for TEM Analysis						
4 A2620867	Window Glazing	Heterogeneous White Non-fibrous Bound			5%	Paint	2% Chrysotile
					50%	Calc Carb	
					43%	Binder	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
5 A2620868	Sample Not Analyzed per COC						
6 A2620869	Sample Not Analyzed per COC						
7 A2620870	Window Caulk	Heterogeneous White Non-fibrous Bound	95% 5% <1%	Caulk Binder Paint		None Detected	
8 A2620871	Window Caulk	Heterogeneous White Non-fibrous Bound	95% 5% <1%	Caulk Binder Paint		None Detected	
9 A2620872	Sample Submitted for TEM Analysis						
10 A2620873	Cement Board Siding	Heterogeneous White, Gray Fibrous Bound	5% 30% 50%	Paint Silicates Binder		15% Chrysotile	
11 A2620874	Sample Not Analyzed per COC						
12 A2620875	Sample Not Analyzed per COC						
13 A2620876	Felt Paper	Heterogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
14 A2620877	Felt Paper	Heterogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
15 A2620878	Sample Submitted for TEM Analysis					
16 A2620879	Mastic	Heterogeneous Black Fibrous Bound	15%	Cellulose 80%	Tar 5% Paint	None Detected
17 A2620880	Mastic	Heterogeneous Black Fibrous Bound	15%	Cellulose 80%	Tar 5% Paint	None Detected
18 A2620881	Sample Submitted for TEM Analysis					
19 Layer 1 A2620882	Joint Compound	Heterogeneous White Non-fibrous Bound		5% 70% 25%	Paint Calc Carb Binder	None Detected
Layer 2 A2620882	Tape	Homogeneous White Fibrous Bound	100%	Cellulose		None Detected
Layer 3 A2620882	Drywall	Homogeneous White Fibrous Bound	10%	Cellulose 90%	Gypsum	None Detected
20 Layer 1 A2620883	Joint Compound	Heterogeneous Beige Non-fibrous Bound		5% 65% 27%	Paint Calc Carb Binder	3% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
Layer 2 A2620883	Tape	Homogeneous White Fibrous Bound	100%	Cellulose			None Detected
Layer 3 A2620883	Drywall	Homogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
21 A2620884	Sample Not Analyzed per COC						
22 A2620885	Sample Not Analyzed per COC						
23 A2620886	Sample Not Analyzed per COC						
24 Layer 1 A2620887	Finish	Heterogeneous White Non-fibrous Bound		<1%	Paint 35% 65%	Silicates Binder	None Detected
Layer 2 A2620887	Plaster	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	65% 35%	Silicates Binder	None Detected
25 Layer 1 A2620888	Finish	Heterogeneous White Non-fibrous Bound			5% 65% 30%	Paint Calc Carb Binder	None Detected
Layer 2 A2620888	Plaster	Heterogeneous Tan Non-fibrous Bound	<1%	Cellulose	65% 35%	Silicates Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %	
			Fibrous	Non-Fibrous		
26 Layer 1 A2620889	Finish	Heterogeneous	5%	Paint	None Detected	
		White	35%	Silicates		
		Non-fibrous	60%	Binder		
		Bound				
Layer 2 A2620889	Plaster	Heterogeneous	<1%	Cellulose	65%	None Detected
		Gray			35%	
		Non-fibrous		Binder		
		Bound				
27 Layer 1 A2620890	Finish	Heterogeneous	5%	Paint	None Detected	
		White	35%	Calc Carb		
		Non-fibrous	60%	Binder		
		Bound				
Layer 2 A2620890	Plaster	Heterogeneous	<1%	Cellulose	65%	None Detected
		Tan			35%	
		Non-fibrous		Binder		
		Bound				
28 Layer 1 A2620891	Finish	Heterogeneous	5%	Paint	None Detected	
		White	35%	Calc Carb		
		Non-fibrous	60%	Binder		
		Bound				
Layer 2 A2620891	Plaster	Heterogeneous	<1%	Cellulose	65%	None Detected
		Tan			35%	
		Non-fibrous		Binder		
		Bound				
29 A2620892	Mastic Dots	Homogeneous	100%	Mastic	None Detected	
		Black				
		Non-fibrous				
		Bound				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
30 A2620893	Mastic Dots	Homogeneous Black Non-fibrous Bound	100%	Mastic	None Detected
31 A2620894	Sample Submitted for TEM Analysis				
32 A2620895A	Floor Tile	Heterogeneous Brown, Patterned Non-fibrous Bound	95%	Vinyl	5% Chrysotile
A2620895B	Adhesive	Homogeneous Clear Non-fibrous Bound	<1%	Cellulose	100% Mastic None Detected
33 A2620896A	Sample Not Analyzed per COC				
A2620896B	Adhesive	Homogeneous Clear Non-fibrous Bound	<1%	Cellulose	100% Mastic None Detected
34 A2620897A	Sample Not Analyzed per COC				
A2620897B	Sample Submitted for TEM Analysis				
35 A2620898	Wall Texture	Heterogeneous White Non-fibrous Bound	5% 70% 25%	Paint Calc Carb Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
36 A2620899	Wall Texture	Heterogeneous White Non-fibrous Bound	5%	Paint 70% Calc Carb 25% Binder	None Detected
37 A2620900	Wall Texture	Heterogeneous White Non-fibrous Bound	5%	Paint 70% Calc Carb 25% Binder	None Detected
38 A2620901	Wall Texture	Heterogeneous White Non-fibrous Bound	5%	Paint 70% Calc Carb 25% Binder	None Detected
39 A2620902	Wall Texture	Heterogeneous Brown Non-fibrous Bound	5%	Paint 70% Calc Carb 25% Binder	None Detected
40 A2620903	Vinyl Flooring	Heterogeneous Yellow,Patterned Fibrous Bound	50%	Vinyl 25% Binder	25% Chrysotile
41 A2620904	Sample Not Analyzed per COC				
42 A2620905	Sample Not Analyzed per COC				
43 A2620906	Vinyl Flooring	Heterogeneous Beige,Paisley Fibrous Bound	30% Cellulose 10% Fiberglass	50% Vinyl 10% Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
44 A2620907	Vinyl Flooring	Heterogeneous	30%	Cellulose	50%	None Detected
		Beige,Paisley Fibrous Bound	10%	Fiberglass	10%	
45 A2620908	Sample Submitted for TEM Analysis					
46 A2620909	Vinyl Flooring	Heterogeneous	40%	Cellulose	50%	None Detected
		Brown,Patterned Fibrous Bound	10%	Fiberglass		
47 A2620910	Vinyl Flooring	Heterogeneous	40%	Cellulose	50%	None Detected
		Brown,Patterned Fibrous Bound	10%	Fiberglass		
48 A2620911	Sample Submitted for TEM Analysis					
49 A2620912A	Floor Tile	Heterogeneous			100%	None Detected
		Yellow,Patterned Non-fibrous Bound				
A2620912B	Mastic	Homogeneous			100%	None Detected
		Clear Non-fibrous Bound				
A2620912C	Vinyl Flooring	Heterogeneous	30%	Cellulose	50%	None Detected
		Orange, Patterned Fibrous Bound	10%	Fiberglass	10%	

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
50 A2620913A	Floor Tile	Heterogeneous Yellow, Patterned Non-fibrous Bound	100%		Vinyl		None Detected
A2620913B	Mastic	Homogeneous Clear Non-fibrous Bound	100%		Mastic		None Detected
A2620913C	Vinyl Flooring	Heterogeneous Orange, Patterned Fibrous Bound	30% 10%	Cellulose Fiberglass	50% 10%	Vinyl Binder	None Detected
51 A2620914	Sample Submitted for TEM Analysis						
52 A2620915A	Vinyl Flooring	Heterogeneous White, Blue Fibrous Bound	25% 10%	Cellulose Fiberglass	50% 15%	Vinyl Binder	None Detected
A2620915B	Floor Tile	Heterogeneous Beige Non-fibrous Bound	100%		Vinyl		None Detected
A2620915C	Mastic	Homogeneous Clear Non-fibrous Bound	100%		Mastic		None Detected
Layer 1 A2620915D	Vinyl Flooring	Heterogeneous Brown, Patterned Fibrous Bound	50% 25%		Vinyl Binder		25% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Apex Environmental Management
 7 Winchester Court
 Mauldin, SC 29662

Lab Code: A18-2203
Date Received: 02-08-18
Date Analyzed: 02-14-18
Date Reported: 02-15-18

Project: COS 773 Saxon Ave ACM/LBP; 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
Layer 2 A2620915D	Mastic	Heterogeneous Beige Non-fibrous Bound	98%	Mastic		2% Chrysotile	
Lab Notes: Analyst opinion: Possible contamination from associated Vinyl Flooring							
53 A2620916A	Vinyl Flooring	Heterogeneous White,Blue Fibrous Bound	25% 10%	Cellulose Fiberglass	50% 15%	Vinyl Binder	None Detected
A2620916B	Floor Tile	Heterogeneous Beige Non-fibrous Bound	100%	Vinyl			None Detected
A2620916C	Mastic	Homogeneous Clear Non-fibrous Bound	100%	Mastic			None Detected
A2620916D	Sample Not Analyzed per COC						
54 A2620917A	Sample Submitted for TEM Analysis						
A2620917B	Sample Submitted for TEM Analysis						
A2620917C	Sample Submitted for TEM Analysis						
A2620917D	Sample Not Analyzed per COC						

LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: *Samantha Card*
Samantha Card

APPROVED BY: *Tianbao Bai*
Tianbao Bai, Ph.D., CIH
Laboratory Director



730 SE Maynard Road, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

**ASBESTOS
 CHAIN OF CUSTODY**

(51) A8-2203
 A2620864
 A2620917

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: <i>Tom Oliver</i>
Company: Apex Environmental Management, Inc.	Email / Tel: <i>864-640-5127</i>
Address: 7 Winchester Ct. Mauldin, South Carolina 29662	Project Name: <i>COS 773 Saxon Ave ACM/CRP</i>
Email: <i>toliver@apex-ehs.com</i>	Project ID#: <i>0118-14</i>
Tel: (864) 404-3210 Fax: <i>864-404-3213</i>	PO #:
STATE SAMPLES COLLECTED IN: <i>SC</i>	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS: <i>Positive step analysis</i>		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	<i>2-7-18</i>	<i>AR</i>	<i>2-8-18 9:36</i>

Samples will be disposed of 30 days after analysis

Page 1 of 3

As-203

ASBESTOS SAMPLING FORM



COMPANY CONTACT INFORMATION	
Company: <u>Apex Environmental Management</u>	Job Contact: <u>Tom Oliver</u>
Project Name: <u>LOS 773 Saxon Ave ACM/LBP</u>	
Project ID #: <u>0118-14</u>	Tel: <u>864-640-5127</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
1	Roof shingles (2) +		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
2	felt CIS ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
3			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
4	Window glazing		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
5			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
6			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
7	Window caulk		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
8			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
9			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
10	Cement board siding		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
11			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
12			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
13	Felt paper beneath cement		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
14	board siding ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
15			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
16	Black mastic on roof		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
17	Flashing ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
18			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
19	Drywall with joint		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
20	compound + tape ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
21			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
22			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
23			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
24	Plaster with finish		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
25			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
26			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
27			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
28			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>

A8-2207

ASBESTOS SAMPLING FORM



COMPANY CONTACT INFORMATION	
Company: <u>Apex Environmental Management</u>	Job Contact: <u>Tom Oliver</u>
Project Name: <u>CO5723 Saxon Ave Acq/LBP</u>	
Project ID #: <u>0118-14</u>	Tel: <u>864-640-5127</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
29	Black mastic dots		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
30	beneath drywall to		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
31			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
32	12" x 12" brown thin		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
33	pattern floor tile +		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
34	adhesive		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
35	wall texture		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
36			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
37			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
38			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
39			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
40	Yellow pattern vinyl		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
41	floor with no mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
42			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
43	Beige paisley pattern		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
44	vinyl floor w/with		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
45	no mastic		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
46	Brown pattern vinyl		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
47	floor with no mastic		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
48			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
49	Yellow pattern floor tile		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
50	+ mastic over 2 nd layer		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
51	of vinyl floor w/ no mastic		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
52	Multiple layers of		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
53	vinyl floor with + with		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
54	no mastics		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>

February 21, 2018

Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

CLIENT PROJECT: COS 773 Saxon Ave ACM/CBP; 0118-14
LAB CODE: T18-0285

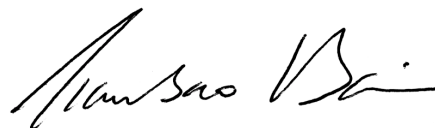
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on February 14, 2018. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 773 Saxon Ave ACM/CBP; 0118-14

LAB CODE: T18-0285

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 02/21/18

TEL: 866-481-1412

www.ceilabs.com



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Lab Code: T18-0285
Date Received: 02-14-18
Date Analyzed: 02-19-18
Date Reported: 02-21-18

Project: COS 773 Saxon Ave ACM/CBP; 0118-14

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
3 T73903	Black Roof Shingle	0.447	20.8	41.6	37.6	None Detected
3 T73904	Black Roof Shingle	0.543	22.8	46.4	30.8	None Detected
3 T73905	Black Felt	0.371	96.8	1.3	1.9	None Detected
9 T73906	White Window Caulk	0.39	21.3	46.2	32.5	None Detected
15 T73907	Black Felt Paper	0.695	96.1	1.4	2.5	None Detected
18 T73908	Black Mastic	0.36	61.4	12.5	26.1	<1% Chrysotile
*Probable contamination from positive floor tile						
31 T73909	Black Mastic Dots	0.353	39.1	22.7	38.2	None Detected
34 T73910	Clear Adhesive	0.122	58.2	22.1	19.7	None Detected
45 T73911	Beige, Paisley Vinyl Flooring	0.367	48.8	11.4	39.8	None Detected
48 T73912	Brown, Pattern Vinyl Flooring	0.381	63.8	31.2	5	None Detected
51 T73913	Yellow, Pattern Floor Tile	0.545	19.3	80.6	.1	None Detected
51 T73914	Clear Mastic	0.1	67	27	6	None Detected



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

Lab Code: T18-0285
Date Received: 02-14-18
Date Analyzed: 02-19-18
Date Reported: 02-21-18

Project: COS 773 Saxon Ave ACM/CBP; 0118-14

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
51 T73915	Orange, Pattern Floor Tile	0.463	44.1	24.4	31.5	None Detected
54 T73916	White, Blue Vinyl Flooring	0.262	85.5	8	6.5	None Detected
54 T73917	Beige Floor Tile	0.685	19.6	79.7	.7	None Detected
54 T73918	Clear Mastic	0.109	68.8	27.5	3.7	<1% Chrysotile

*Probable contamination from positive vinyl flooring/mastic

LEGEND: None

METHOD: CHATFIELD & EPA/600/R-93/116

LIMIT OF DETECTION: Varies with the weight and constituents of the sample (<1%)

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Estimated measurement of uncertainty is available on request. Samples were received in acceptable condition unless otherwise noted.

ANALYST:


Amanda Rucinski

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director

T18-0285
T73903-918

(51) A8-2203
A 2620864
A2620917



730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

16

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Tom Oliver
Company: Apex Environmental Management, Inc.	Email / Tel: 864-640-5127
Address: 7 Winchester Ct. Mauldin, South Carolina 29662	Project Name: COS 773 Saxon Ave ACM/CRP
Email: toliveroapex-ehs.com	Project ID#: 0118-14
Tel: (864) 404-3210 Fax: 864-404-3213	PO #:
STATE SAMPLES COLLECTED IN: SC	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS:
Positive step analysis

Accept Samples
 Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	2-7-18		
<i>[Signature]</i>	2-14-18 3:40pm	AR	2-8-18 9:36

Samples will be disposed of 30 days after analysis

Aug 2003

ASBESTOS SAMPLING FORM



T18-0285

COMPANY CONTACT INFORMATION	
Company: <u>Apex Environmental Management</u>	Job Contact: <u>Tom Oliver</u>
Project Name: <u>LOS 773 Saxon Ave ACM/LBP</u>	
Project ID #: <u>0118-14</u>	Tel: <u>864-640-5127</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
1	Roof shingles (2) +		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
2	felt (1) ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
3			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
4	Window glazing		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
5			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
6			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
7	Window caulk		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
8			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
9			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
10	Cement board siding		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
11			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
12			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
13	Felt paper beneath cement		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
14	board siding ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
15			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
16	Black mastic on roof		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
17	Flashing ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
18			PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
19	Drywall with joint		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
20	compound + tape ↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
21			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
22			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
23			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
24	Plaster with finish		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
25			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
26			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
27			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
28			PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>



ASBESTOS SAMPLING FORM

718-0285

COMPANY CONTACT INFORMATION	
Company: <u>Apex Environmental Management</u>	Job Contact: <u>Tom Oliver</u>
Project Name: <u>COS 723 Saxon Ave AcM/LBP</u>	
Project ID #: <u>0118-14</u>	Tel: <u>864-640-5127</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME / AREA	TEST	
			PLM	TEM
29	Black mastic dots		<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	beneath drywall to		<input checked="" type="checkbox"/>	<input type="checkbox"/>
31			<input type="checkbox"/>	<input checked="" type="checkbox"/>
32	12"x12" brown thin		<input checked="" type="checkbox"/>	<input type="checkbox"/>
33	pattern floor tile +		<input checked="" type="checkbox"/>	<input type="checkbox"/>
34	adhesive		<input type="checkbox"/>	<input checked="" type="checkbox"/>
35	wall texture		<input checked="" type="checkbox"/>	<input type="checkbox"/>
36			<input checked="" type="checkbox"/>	<input type="checkbox"/>
37			<input checked="" type="checkbox"/>	<input type="checkbox"/>
38			<input checked="" type="checkbox"/>	<input type="checkbox"/>
39			<input checked="" type="checkbox"/>	<input type="checkbox"/>
40	Yellow pattern vinyl		<input checked="" type="checkbox"/>	<input type="checkbox"/>
41	floor with no mastic		<input checked="" type="checkbox"/>	<input type="checkbox"/>
42			<input type="checkbox"/>	<input checked="" type="checkbox"/>
43	Beige paisley pattern		<input checked="" type="checkbox"/>	<input type="checkbox"/>
44	vinyl floor with		<input checked="" type="checkbox"/>	<input type="checkbox"/>
45	no mastic		<input type="checkbox"/>	<input checked="" type="checkbox"/>
46	Brown pattern vinyl		<input checked="" type="checkbox"/>	<input type="checkbox"/>
47	floor with no mastic		<input checked="" type="checkbox"/>	<input type="checkbox"/>
48			<input type="checkbox"/>	<input checked="" type="checkbox"/>
49	Yellow pattern floor tile		<input checked="" type="checkbox"/>	<input type="checkbox"/>
50	+ mastic over 2 nd layer		<input checked="" type="checkbox"/>	<input type="checkbox"/>
51	of vinyl floor w/ no mastic		<input type="checkbox"/>	<input checked="" type="checkbox"/>
52	Multiple layers of		<input checked="" type="checkbox"/>	<input type="checkbox"/>
53	vinyl floor with + with		<input checked="" type="checkbox"/>	<input type="checkbox"/>
54	no mastics		<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

SECTION IV
Photographic Log



Photo 1 – 773 Saxon Avenue in Spartanburg, South Carolina.



Photo 2 – Roof shingles and felt.



Photo 3 – Wooden windows with glazing.



Photo 4 – Wooden windows with caulk.



Photo 5 – Cement board siding with felt beneath.



Photo 6 – Black mastic on roof flashing.



Photo 7 – Drywall with joint compound & tape.



Photo 8 – Plaster with finish.



Photo 9 – Black mastic dots behind drywall walls.



Photo 10 – 12" x 12" brown thin pattern floor tile & adhesive in the main hallway.



Photo 11 – Wall texture in the main hallway, front left & right bedrooms & kitchen.



Photo 12 – Yellow pattern vinyl floor with no mastic in the front right bedroom under carpet.



Photo 13 – Beige paisley pattern vinyl floor with no mastic in the dining room in front of the kitchen.



Photo 14 – Brown pattern vinyl floor with no mastic in the kitchen (top layer).



Photo 15 – Yellow pattern floor tile & mastic over yellow pattern vinyl floor with no mastic in the kitchen (under wood).



Photo 16 – 3 layers of vinyl flooring with & without mastics in the back damaged area.



Photo 17 – Back damaged area.



Photo 18 – Typical view inside.

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED
Asbestos ID Card

Thomas H Oliver



AIRSAMPLER	AS-00202	03/17/18
CONSULTBI	BI-00680	01/18/19

Expiration Date:

This card is nontransferable and 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