

Asbestos & Lead Based Paint Assessment

City of Spartanburg 702 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: 0417-66

May 31, 2017





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

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Mr. Martin Livingston City of Spartanburg

440 South Church Street, Suite B Spartanburg, SC 29306

Reference: Asbestos and Lead-Based Paint Assessment Services 702 Saxon Avenue Spartanburg, South Carolina

Dear Mr. Livingston:

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

This report and the associated attachments summarize our evaluation of the conditions observed at the project site. The findings presented by Apex are based upon sampling performed in the subject building. There is a chance that undetected ACM may exist in the building between walls or in other areas that would only be exposed during demolition or structural renovations. Should material be discovered that could potentially contain asbestos during the demolition process, additional samples of the material should be collected by a licensed asbestos inspector and submitted to an accredited laboratory for analytical interpretation. Our recommendations are based on the guidelines presented in EPA and/or OSHA regulations.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for abatement. Quantities are estimates and contractors must verify amounts prior to bidding or removal. If you are planning an abatement project, please contact Apex to discuss the requirements. Use of this document without the express written consent of Apex is at the sole risk of the user and or/abatement contractor.

The conclusions and/or recommendations contained in this report are based on our understanding of the applicable standards at the time this report was prepared. No warranty, expressed or implied, is made. If you have any questions please feel free to contact us at (864) 404-3210.

Respectfully submitted, **APEX ENVIRONMENTAL MANAGEMENT, INC.**

Tom Oliver Director of Operations

Appendices

Apex Project Number 0417-66

May 31, 2017

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

CITY OF SPARTANBURG 702 SAXON AVENUE SPARTANBURG, SOUTH CAROLINA

APEX PROJECT NO. 0417-66

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS/LEAD EVALUATION REPORT APEX PROJECT NUMBER: 0417-66

Date:	5/31/2017	Page Number:		1 of 4
Client:	City of Spartanburg	Client Contact:	Mr. Martin Living	ston
Client Address: Project:	440 South Church Street Suite B Spartanburg, SC 29306 Asbestos and Lead Evaluation	Client Phone Number:	(864) 580-5323	
Property Address:	702 Saxon Avenue Spartanburg, SC			
Assessor:	Ben Oliver	Date of Assessment:	4/21/17	
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210	
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 7	5 years
Building Type:	Residential	Number of Stories:	1	
Foundation:	Crawlspace	Approximate Square Footage	1,125 SF	

EXTERIOR BUILDING MATERIALS

- Pitched wooden roof with shingles and no felt.
- Cement board siding with felt beneath.
- Unfinished drywall siding beneath portions of cement board and wooden siding.
- Wooden windows with caulk and glazing.
- Vinyl windows with caulk.
- Metal doors with no caulk.
- 2 chimney's with mastic/tar assumed positive.

INTERIOR BUILDING MATERIALS

- Plaster with finish over unfinished drywall throughout walls and ceilings.
- Top layer of drywall with joint compound and tape in the living room.
- Wooden floors and ceilings.
- Flooring felt under wooden floors.
- Multiple types and layers of vinyl floors with and without mastics.
- Mastic beneath shower stall in the bathroom.

City of Spartanburg 702 Saxon Avenue Apex Project No. 0417-66 May 31, 2017

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. Forty-four (44) bulk samples were collected during the survey and submitted to CEI Labs (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). Twelve (12) 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* table is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

City of Spartanburg 702 Saxon Avenue Apex Project No. 0417-66 May 31, 2017

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

- Approximately 1,700 SF of exterior cement board siding.
- Approximately 12 LF of mastic/tar on 2 chimneys assumed positive.

Lead Based Paint

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms per cubic meter (30 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, the EPA defines LBP as paint containing in excess of, or equal to, 1.0 mg/cm². The XRF analytical results and approximate locations of the paint samples collected are included in the Lead Analysis Report in Appendix II.

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

- Exterior white wooden porch columns.
- Exterior white wooden window sills.
- Exterior blue wooden porch ceiling.
- Exterior blue wooden windows.
- Exterior brown wooden doors.
- Interior blue and cream plaster walls and ceilings.

RECOMMENDATIONS AND DISCUSSION

Asbestos Containing Materials

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

APEX recommends the following:

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

City of Spartanburg 702 Saxon Avenue Apex Project No. 0417-66 May 31, 2017

Lead-Based Paint

Currently the South Carolina Department of Health and Environmental Control (SCDHEC) define LBP as paint containing greater than 1.0 milligrams 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 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

Project Name: COS 702 Saxon Avenue ACM/LBP

Project Location: 702 Saxon Avenue, Spartanburg, SC

Project Number: 0417-66

Sampled By:Ben OliverProject Manager:Tom OliverDate:4/21/2017

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1		Deef chingles (2 layers) and pa	PLM - NAD			
2	Roof	Roof shingles (2 layers) and no felt		Non-Friable	Good	1,350 SF
3		lon	TEM - NAD			
4						
5	Siding	Cement board siding	15% Chrysotile	Non-Friable	Good	1,700 SF
6						
7			PLM - NAD			
8	Siding	Felt paper beneath cement board siding		Non-Friable	Good	1,700 SF
9		Sourd blaing	TEM - <1% Chrysotile			
10		Unfinished drywall under				
11	Siding	portions of cement board and	PLM - NAD	Friable	Good	1,000 SF
12		wooden siding				
13			PLM - NAD			
14	Wooden windows	Window glazing		Non-Friable	Good	4 EA
15			TEM - NAD			
16			PLM - NAD			
17	Wooden windows	Window caulk		Non-Friable	Good	4 EA
18			TEM - NAD			
19			PLM - NAD			
20	Vinyl windows	Window caulk		Non-Friable	Good	8 EA
21]		TEM - NAD]		
22						
23	Living room walls & ceiling	Drywall with joint compound and tape	PLM - NAD	Friable	Good	625 SF
24						

ASBESTOS SURVEY FIELD DATA SHEET

Project Name: COS 702 Saxon Avenue ACM/LBP

Project Location: 702 Saxon Avenue, Spartanburg, SC

Project Number: 0417-66

Sampled By:Ben OliverProject Manager:Tom OliverDate:4/21/2017

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
25						
26						
27	Throughout walls & ceilings	Plaster with finish over unfinished drywall	PLM - NAD	Friable	Good	2,100 SF
28	Cennigs	uninished drywan				
29						
30						
31	Kitchen	Brown large square pattern vinyl floor with no mastic	PLM - NAD	Non-Friable	Good	100 SF
32		noor with no mastic	TEM - NAD			
33					Good	
34	Bathroom	Beige medium square pattern vinyl floor with no mastic	PLM - NAD	Non-Friable		20 SF
35			TEM - NAD			
36		Flooring felt under wooden	PLM - NAD			
37	Throughout		out Flooring felt under wooden floors		Non-Friable	Good
38	1	10013	TEM - NAD			
39						
40	Bathroom	Mastic beneath shower stall	PLM - NAD	Non-Friable	Good	40 SF
41	1		TEM - NAD			
42	Kitchen	-				
43	(2nd layer under	Tan pattern vinyl floor with mastic	PLM - NAD	Non-Friable	Good	100 SF
44	wood)	masuc	TEM - NAD			
Assumed	2 Chimneys	Chimney mastic/tar	Assumed	Non-Friable	Good	12 LF
NAD = No Asbes Bold = Positive			EA = Each Chry = Chrysotile			

FIELD DATA SHEET LBP ANALYSIS

Project Name: COS 702 Saxon Avenue ACM/LBP

Project Location: 702 Saxon Avenue, Spartanburg SC

Project Number: 0417-66

Sampled By:	Ben Oliver	_
Project Manager:	Ben Oliver	_
Date:	4/21/2017	

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)			
1		Standardization Calibration						
2		Calibratic	n		1.10			
3		Calibratic	n		1.00			
4		Calibratic	n		0.97			
5	Exterior	Siding	Blue	Cement board	0.00			
6	Exterior	Porch column	White	Wood	2.03			
7	Exterior	Door frame	White	Wood	0.00			
8	Exterior	Window sill	White	Wood	1.28			
9	Exterior	Door	Cream	Metal	0.01			
10	Exterior	Window	White	Vinyl	0.00			
11	Exterior	Porch ceiling	Blue	Wood	1.44			
12	Exterior	Porch trim	White	Wood	0.99			
13	Exterior	Window	Blue	Wood	1.10			
14	Exterior	Window frame	Blue	Wood	0.95			
15	Exterior	Trim	Blue	Wood	0.56			
16	Exterior	Door	Brown	Wood	3.06			
17	Interior	Cabinet	White	Wood	0.70			
18	Interior	Wall	Blue	Plaster	1.00			
19	Interior	Wall	Cream	Plaster	1.00			
20	Interior	Door frame	White	Wood	0.00			
21	Interior	Floor	Brown	Wood	0.00			
22	Interior	Base board	Cream	Wood	0.20			
23	Interior	Window frame	Cream	Wood	0.00			
24	Interior	Wall	Brown	Plaster	0.21			

FIELD DATA SHEET LBP ANALYSIS

Project Name:	COS 702 Saxon Ave	nue ACM/LBP		Sampled By:	Ben Oliver
Project Location	: 702 Saxon Avenue, S	Spartanburg SC		Project Manager:	Ben Oliver
Project Number:	0417-66			Date:	4/21/2017
Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
·	Sample Location	Component Door	Color White	Substrate Wood	-
Sample No.	·	•			(mg/m ³)

Cream

Wood

0.95

Fireplace mantle

Bold = LBP

28

Interior

SECTION III

Laboratory Analytical Results



May 1, 2017

Apex Environmental Management 7 Winchester Court Mauldin, SC 29662

CLIENT PROJECT:	COS 702 Saxon Ave ACM & LBP; 0417-66
CEI LAB CODE:	A17-5878

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 24, 2017. 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,

Man Sao Di

Tianbao Bai, Ph.D., CIH Laboratory Director





ASBESTOS ANALYTICAL REPORT By: Polarized Light Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 702 Saxon Ave ACM & LBP; 0417-66

CEI LAB CODE: A17-5878

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

REPORT DATE: 05/01/17

TOTAL SAMPLES ANALYZED: 32

SAMPLES >1% ASBESTOS: 1

TEL: 866-481-1412

www.ceilabs.com



PROJECT: COS 702 Saxon Ave ACM & LBP; 0417 **CEI LAB CODE:** A17-5878 -66

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1	Layer 1	A2384137	Black	Roof Shingle	None Detected
	Layer 2	A2384137	Gray,Black	Roof Shingle	None Detected
2	Layer 1	A2384138	Black	Roof Shingle	None Detected
	Layer 2	A2384138	Gray,Black	Roof Shingle	None Detected
3		A2384139		Sample Submitted for TEM Analysis	
4		A2384140	Gray	Cement Board Siding	Chrysotile 15%
5		A2384141		Sample Not Analyzed per COC	
6		A2384142		Sample Not Analyzed per COC	
7		A2384143	Black	Felt Paper	None Detected
8		A2384144	Black	Felt Paper	None Detected
9		A2384145		Sample Submitted for TEM Analysis	
10		A2384146	Gray	Unfinished Drywall	None Detected
11		A2384147	Gray	Unfinished Drywall	None Detected
12		A2384148	Gray	Unfinished Drywall	None Detected
13		A2384149	Gray,White	Window Glazing	None Detected
14		A2384150	Gray,White	Window Glazing	None Detected
15		A2384151		Sample Submitted for TEM Analysis	
16		A2384152	Blue,White	Window Caulk	None Detected
17		A2384153	Blue,White	Window Caulk	None Detected
18		A2384154		Sample Submitted for TEM Analysis	
19		A2384155	Tan,White	Window Caulk	None Detected
20		A2384156	Tan,White	Window Caulk	None Detected
21		A2384157		Sample Submitted for TEM Analysis	
22	Layer 1	A2384158	White	Drywall	None Detected
	Layer 2	A2384158	White	Joint Compound	None Detected
	Layer 3	A2384158	White	Таре	None Detected
23	Layer 1	A2384159	White	Drywall	None Detected



PROJECT: COS 702 Saxon Ave ACM & LBP; 0417 **CEI LAB CODE:** A17-5878 -66

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 2	A2384159	White	Joint Compound	None Detected
	Layer 3	A2384159	White	Таре	None Detected
24	Layer 1	A2384160	White	Drywall	None Detected
	Layer 2	A2384160	White	Joint Compound	None Detected
	Layer 3	A2384160	White	Таре	None Detected
25	Layer 1	A2384161A	White	Finish	None Detected
	Layer 2	A2384161A	Gray	Plaster	None Detected
		A2384161B	White	Sheetrock	None Detected
26	Layer 1	A2384162A	White	Finish	None Detected
	Layer 2	A2384162A	Gray	Plaster	None Detected
		A2384162B	White	Sheetrock	None Detected
27	Layer 1	A2384163A	White	Finish	None Detected
	Layer 2	A2384163A	Gray	Plaster	None Detected
		A2384163B	White	Sheetrock	None Detected
28	Layer 1	A2384164A	White	Finish	None Detected
	Layer 2	A2384164A	Gray	Plaster	None Detected
		A2384164B	White	Sheetrock	None Detected
29	Layer 1	A2384165A	White	Finish	None Detected
	Layer 2	A2384165A	Gray	Plaster	None Detected
		A2384165B	White	Sheetrock	None Detected
30		A2384166	Brown	Vinyl Floor	None Detected
31		A2384167	Brown	Vinyl Floor	None Detected
32		A2384168		Sample Submitted for TEM Analysis	
33		A2384169	Beige	Vinyl Floor	None Detected
34		A2384170	Beige	Vinyl Floor	None Detected
35		A2384171		Sample Submitted for TEM Analysis	
36		A2384172	Black	Flooring Felt	None Detected
37		A2384173	Black	Flooring Felt	None Detected
38		A2384174		Sample Submitted for TEM Analysis	



PROJECT: COS 702 Saxon Ave ACM & LBP; 0417 **CEI LAB CODE:** A17-5878 -66

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
39		A2384175	Tan	Mastic	None Detected
40		A2384176	Tan	Mastic	None Detected
41		A2384177		Sample Submitted for TEM Analysis	
42		A2384178A	Tan	Vinyl Floor (tile)	None Detected
		A2384178B	Brown	Mastic	None Detected
43		A2384179A	Tan	Vinyl Floor (tile)	None Detected
		A2384179B	Brown	Mastic	None Detected
44		A2384180		Sample Submitted for TEM Analysis	



By: POLARIZING LIGHT MICROSCOPY

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

 CEI Lab Code:
 A17-5878

 Date Received:
 04-24-17

 Date Analyzed:
 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

Client ID Lab ID	Lab Description	Lab NON-ASBES Attributes Fibrous		N-ASBESTOS ous		NENTS Fibrous	ASBESTOS %
1 Layer 1 A2384137	Roof Shingle	Heterogeneous Black Fibrous Bound	20%	Fiberglass	45% 35%	Tar Silicates	None Detected
Layer 2 A2384137	Roof Shingle	Heterogeneous Gray,Black Fibrous Bound	20%	Fiberglass	45% 35%	Tar Silicates	None Detected
2 Layer 1 A2384138	Roof Shingle	Heterogeneous Black Fibrous Bound	20%	Fiberglass	45% 35%	Tar Silicates	None Detected
Layer 2 A2384138	Roof Shingle	Heterogeneous Gray,Black Fibrous Bound	20%	Fiberglass	45% 35%	Tar Silicates	None Detected
3 A2384139	Sample Submitted for TEM Analysis						
4 A2384140	Cement Board Siding	Heterogeneous Gray Fibrous Bound			85%	Binder	15% Chrysotile
5 A2384141	Sample Not Analyzed per COC						
6 A2384142	Sample Not Analyzed per COC						
7 A2384143	Felt Paper	Homogeneous Black Fibrous Bound	75%	Cellulose	25%	Tar	None Detected



By: POLARIZING LIGHT MICROSCOPY

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 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous Non-Fibrous				ASBESTOS %
8 A2384144	Felt Paper	Homogeneous Black Fibrous Bound	75%	Cellulose	25%	Tar	None Detected
9 A2384145	Sample Submitted for TEM Analysis						
10 A2384146	Unfinished Drywall	Heterogeneous Gray Fibrous Bound	5%	Cellulose	95%	Gypsum	None Detected
11 A2384147	Unfinished Drywall	Heterogeneous Gray Fibrous Bound	5%	Cellulose	95%	Gypsum	None Detected
12 A2384148	Unfinished Drywall	Heterogeneous Gray Fibrous Bound	5%	Cellulose	95%	Gypsum	None Detected
13 A2384149	Window Glazing	Heterogeneous Gray,White Fibrous Bound	2%	Fiberglass	3% 60% 35%	Paint Binder Calc Carb	None Detected
14 A2384150	Window Glazing	Heterogeneous Gray,White Fibrous Bound	2%	Fiberglass	3% 60% 35%	Paint Binder Calc Carb	None Detected
15 A2384151	Sample Submitted for TEM Analysis						

A2384151 TEM Analysis



By: POLARIZING LIGHT MICROSCOPY

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 Date Received:
 04-24-17

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 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

Client ID	Lab	Lab	NO	NENTS	ASBESTOS			
Lab ID	Description	Attributes	Fibrous		Non-F	Fibrous	%	
16 A2384152	Window Caulk	Heterogeneous Blue,White Non-fibrous Bound			5% 95%	Paint Caulk	None Detected	
17 A2384153	Window Caulk	Heterogeneous Blue,White Non-fibrous Bound			5% 95%	Paint Caulk	None Detected	
18 A2384154	Sample Submitted for TEM Analysis							
19 A2384155	Window Caulk	Heterogeneous Tan,White Non-fibrous Bound			5% 95%	Binder Caulk	None Detected	
20 A2384156	Window Caulk	Heterogeneous Tan,White Non-fibrous Bound			5% 95%	Binder Caulk	None Detected	
21 A2384157	Sample Submitted for TEM Analysis							
22 Layer 1 A2384158	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected	
Layer 2 A2384158	Joint Compound	Heterogeneous White Non-fibrous Bound			5% 50% 45%	Paint Binder Calc Carb	None Detected	



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Client ID Lab ID	Lab Description	Lab Attributes		NON-ASBESTOS COMPONENTS Fibrous Non-Fibrous			ASBESTOS %
Layer 3 A2384158	Таре	Heterogeneous White Fibrous Bound	90%	Fiberglass	10%	Binder	None Detected
23 Layer 1 A2384159	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 A2384159	Joint Compound	Heterogeneous White Non-fibrous Bound			5% 50% 45%	Paint Binder Calc Carb	None Detected
Layer 3 A2384159	Таре	Heterogeneous White Fibrous Bound	90%	Fiberglass	10%	Binder	None Detected
24 Layer 1 A2384160	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
Layer 2 A2384160	Joint Compound	Heterogeneous White Non-fibrous Bound			5% 50% 45%	Paint Binder Calc Carb	None Detected
Layer 3 A2384160	Tape	Heterogeneous White Fibrous Bound	90%	Fiberglass	10%	Binder	None Detected



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 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

Client ID Lab ID	Lab Description	Lab Attributes		N-ASBESTOS ous		NENTS Fibrous	ASBESTOS %
25 Layer 1 A2384161A	Finish	Heterogeneous White Non-fibrous Bound			5% 45% 50%	Paint Binder Calc Carb	None Detected
Layer 2 A2384161A	Plaster	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	60% 40%	Binder Silicates	None Detected
A2384161B	Sheetrock	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
26 Layer 1 A2384162A	Finish	Heterogeneous White Non-fibrous Bound			5% 45% 50%	Paint Binder Calc Carb	None Detected
Layer 2 A2384162A	Plaster	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	60% 40%	Binder Silicates	None Detected
A2384162B	Sheetrock	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
27 Layer 1 A2384163A	Finish	Heterogeneous White Non-fibrous Bound			5% 45% 50%	Paint Binder Calc Carb	None Detected



By: POLARIZING LIGHT MICROSCOPY

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

 CEI Lab Code:
 A17-5878

 Date Received:
 04-24-17

 Date Analyzed:
 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

Client ID Lab ID	Lab Description	Lab Attributes		NON-ASBESTOS COMPONENTS Fibrous Non-Fibrous			ASBESTOS %
Layer 2 A2384163A	Plaster	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	60% 40%	Binder Silicates	None Detected
A2384163B	Sheetrock	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
28 Layer 1 A2384164A	Finish	Heterogeneous White Non-fibrous Bound			5% 45% 50%	Paint Binder Calc Carb	None Detected
Layer 2 A2384164A	Plaster	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	60% 40%	Binder Silicates	None Detected
A2384164B	Sheetrock	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
29 Layer 1 A2384165A	Finish	Heterogeneous White Non-fibrous Bound			5% 45% 50%	Paint Binder Calc Carb	None Detected
Layer 2 A2384165A	Plaster	Heterogeneous Gray Non-fibrous Bound	<1%	Cellulose	60% 40%	Binder Silicates	None Detected



By: POLARIZING LIGHT MICROSCOPY

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

 CEI Lab Code:
 A17-5878

 Date Received:
 04-24-17

 Date Analyzed:
 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

ASBESTOS BULK PLM, EPA 600 METHOD **NON-ASBESTOS COMPONENTS Client ID** Lab Lab **ASBESTOS** Lab ID Description Attributes **Fibrous** Non-Fibrous % A2384165B Sheetrock Heterogeneous 10% 90% None Detected Cellulose Gypsum White Fibrous Bound Vinyl Floor Heterogeneous 5% Vinyl None Detected 30 Fiberglass 95% A2384166 Brown Fibrous Bound Vinyl Floor Heterogeneous 5% Fiberglass 95% Vinyl None Detected 31 A2384167 Brown Fibrous Bound 32 Sample Submitted for TEM Analysis A2384168 Vinyl Floor Heterogeneous 5% Fiberglass 95% Vinyl None Detected 33 A2384169 Beige Fibrous Bound Heterogeneous 34 Vinyl Floor 5% Fiberglass 95% Vinyl None Detected A2384170 Beige Fibrous Bound 35 Sample Submitted for **TEM Analysis** A2384171 36 Flooring Felt Homogeneous 75% Cellulose 25% Tar None Detected A2384172 Black Fibrous Bound



By: POLARIZING LIGHT MICROSCOPY

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

 CEI Lab Code:
 A17-5878

 Date Received:
 04-24-17

 Date Analyzed:
 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

	BULK PLM, EPA 6						
Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous Non-Fibrous				ASBESTOS %
37 A2384173	Flooring Felt	Homogeneous Black Fibrous Bound	75%	Cellulose	25%	Tar	None Detected
38 A2384174	Sample Submitted for TEM Analysis						
39 A2384175	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
40 A2384176	Mastic	Homogeneous Tan Non-fibrous Bound			100%	Mastic	None Detected
41 A2384177	Sample Submitted for TEM Analysis						
42 A2384178A	Vinyl Floor (tile)	Heterogeneous Tan Non-fibrous Bound			80% 20%	Vinyl Calc Carb	None Detected
A2384178B	Mastic	Heterogeneous Brown Fibrous Bound	15%	Cellulose	85%	Mastic	None Detected
43 A2384179A	Vinyl Floor (tile)	Heterogeneous Tan Non-fibrous Bound			80% 20%	Vinyl Calc Carb	None Detected





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

 CEI Lab Code:
 A17-5878

 Date Received:
 04-24-17

 Date Analyzed:
 04-28-17

 Date Reported:
 05-01-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

Client ID Lab ID	Lab Description	Lab Attributes		N-ASBESTOS ous		NENTS Fibrous	ASBESTOS %
A2384179B	Mastic	Heterogeneous Brown Fibrous Bound	15%	Cellulose	85%	Mastic	None Detected
44 A2384180	Sample Submitted for TEM Analysis						



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

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 CEI Labs, Inc. CEI Labs 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.

APPROVED BY: ANALYST: Tianbao Bai, Ph.D.,



Laboratory Director



(44) A17-5878 A2384137-A2384180 ASBESTOS CHAIN OF CUSTODY

LABS	LAB USE ONLY:				
107 New Edition Court, Cary, NC 27511	CEI Lab Code:				
Tel: 866-481-1412; Fax: 919-481-1442	CEI Lab I.D. Range:				
COMPANY INFORMATION	PROJECT INFORMATION				
CEI CLIENT #:	Job Contact: Ben Oliver				
Company: Apex Environmental Management, Inc.	Email / Tel: boliver@apex-ehs.com				
Address: 7 Winchester Court	Project Name: COS 702 Saxon Ave ACM & LBP				
Mauldin, South Carolina 29662	Project ID# 0417-66				
Email: boliver@apex-ehs.com	PO #:				
Tel: 864-404-3210 Fax: 864-404-3213	STATE SAMPLES COLLECTED IN: South Carolina				

GENERAL INSTRUCTIONS				in the second
POSITIVE STOP ANALYSIS	X.	PLM DUE DATE:	1	1
ANALYZE NOB'S BY TEM	X	TEM DUE DATE:	1	1

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

	のない。他们	West Base		TURN ARC	OUND TIME		
ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600						X
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
PCM AIR	NIOSH 7400						
TEM AIR AHERA	EPA AHERA						
TEM AIR NIOSH	NIOSH 7402						
TEM BULK	CHATFIELD						X
TEM DUST WIPE	ASTM D6480-05						
TEM DUST MICROVAC	ASTM D5755-09						
TEM SOIL	ASTM D7521-13						
TEM VERMICULITE	CINCINNATI METHOD						
OTHER:							

REMARKS: Utilize Pos	itive Stop During Analysis			Accept Samples
				Reject Samples
Relinquished By:	Date/Time	Received By:		Date/Time
MAR	4-21-17	DC	4-0	04-17 9:00

Samples will be disposed of 30 days after analysis

ASBESTOS SAMPLING FORM

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COMPANY CONTACT INFORMATION							
Company: Apex 1	Environmental Mgt.	Job Contact: Len Oliver					
Project Name: COS	702 Saxon Ave ACM/LBP						
Project ID #: 041	7-66	Tel: 864-404-3210					
· · · · · · · · · · · · · · · · · · ·							
	· 사람이 있는 것 같은 것 같	VOLUME/					
SAMPLE ID#	DESCRIPTION / LOCATION	AREA		TEST			
	Roof shingles (2 laye	¢)	PLM 🔀				
2	and no feit	/	PLM 🔀				
3		$\downarrow \!\!\!\!/$					
4	Cement board Siding						
5	Siding		PLM X				
6				TEM 🔽			
	Felt paper beneath 1 cenent board siding						
8	cenent board siding						
9	1						
10	Unfinished dry hall	/					
/		/	PLM 🔀				
12			PLM X				
13	Window glazing		PLM 🔀				
14			PLM 🔀				
15			PLM				
16	Window can IK 1		PLM 🔀				
			PLM 🖂				
18				TEM Z			
/9	Window can/K]						
20	//		PLM 📿				
21			PLM	TEM 🔽			
22	Dryvell with joint		PLM 📿				
73	compand and tape		PLM 🔀				
<u> </u>	· · · · · · · · · · · · · · · · · · ·	+	PLM 💌				
25	Plaster with Finish		PLM	ТЕМ			
26				ТЕМ			
27			PLM X				
28			PLM 🔽	TEM			
29	1		PLM X				
30	Brown lorge Square pat-	ten b	PLM 🔀	TEM			
		-					

Page _____ of ____

VERSION CCOC.0214.2/2.LD Customer COC Page 2

CELABS

ASBESTOS SAMPLING FORM

COMPANY CONTACT INFORMATION						
Company: Apex Environmentel Mgt. Job Co			ntact: Ben Oliver			
Project Name: 605	702 Saxon Ave ACM/L	8P				
Project ID #: 041		Tel:	864-404	1-3210		
		1				
		VOLUME/		a an		
SAMPLE ID#	DESCRIPTION / LOCATION	AREA		EST		
3/	Viny floor with not					
32	mastic 1	ļ		TEM Z		
	Beige medium square po	Hen/	PLM X			
34	Unyl Floor with ho	-/				
35	hastic					
36	Flooring Felt under mo	pden j				
37	floors					
38		-				
37		ever 1				
40	stall	L /				
41				TEM 🔀		
42	Tan patter Viny/ fla	~/	PLM 🔽			
43	with no mastic	/				
44				TEM X		
			PLM	TEM		
			PLM	TEM		
			PLM	TEM		
			PLM	TEM		
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			PLM			
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			PLM	TEM		
			PLM	TEM		
			PLM	TEM		
			PLM	TEM		
			PLM	ТЕМ		
			PLM	TEM		

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VERSION CCOC.0214.2/2.LD Customer COC Page 2



May 5, 2017

Apex Environmental Management 7 Winchester Court Mauldin, SC 29662

CLIENT PROJECT:	COS 702 Saxon Ave ACM & LBP; 0417-66
CEI LAB CODE:	T17-0807

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on April 28, 2017. 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,

Mansao Di

Tianbao Bai, Ph.D., CIH Laboratory Director



ASBESTOS ANALYTICAL REPORT By: Transmission Electron Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 702 Saxon Ave ACM & LBP; 0417-66

CEI LAB CODE: T17-0807

TEST METHOD: Bulk Chatfield EPA 600 / R93 / 116

REPORT DATE: 05/05/17

TEL: 866-481-1412

www.ceilabs.com



By: TRANSMISSION ELECTRON MICROSCOPY

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

CEI Lab Code:	T17-0807
Date Received:	04-28-17
Date Analyzed:	05-04-17
Date Reported:	05-05-17

Project: COS 702 Saxon Ave ACM & LBP; 0417-66

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 T61838	Black Roof Shingle	0.329	21.3	41.3	37.4	None Detected
3 T61839	Gray, Black Roof Shingle	0.284	26.1	51.1	22.8	None Detected
9 T61840	Black Felt Paper	0.741	96	2.8	1.2	<1% Chrysotile
15 T61841	Gray, White Window Glazing	0.388	22.4	59.5	18.1	None Detected
18 T61842	Blue, White Window Caulk	0.344	29.4	61.3	9.3	None Detected
21 T61843	Tan, White Window Caulk	0.231	21.6	77.1	1.3	None Detected
32 T61844	Brown Vinyl Floor	0.501	70.9	18.6	10.5	None Detected
35 T61845	Beige Vinyl Floor	0.525	63.2	34.1	2.7	None Detected
38 T61846	Black Flooring Felt	0.204	83.8	15.2	1	None Detected
41 T61847	Tan Mastic	0.242	30.6	66.5	2.9	None Detected
44 T61848	Tan Vinyl Floor (Tile)	0.542	16.1	81.9	2	None Detected
44 T61849	Brown Mastic	0.128	54.7	27.3	18	None Detected



LEGEND: None

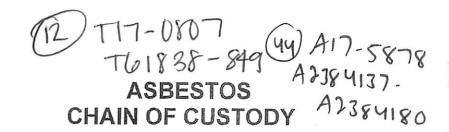
METHOD: CHATFIELD & EPA/600/R-93/116

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 CEI Labs, Inc. CEI Labs 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: Kamila Reichert APPROVED BY: Im Tianbao Bai, Ph.D., CIH Laboratory Director





CEI Lab Code:				
CEI Lab I.D. Range:				
PROJECT INFORMATION				
Job Contact: Ben Oliver				
Email / Tel: boliver@apex-ehs.com				
Project Name: COS 702 Saxon Ave ACM & LBP				
Project ID# 0417-66				
PO #:				
STATE SAMPLES COLLECTED IN: South Carolina				

LAB USE ONLY:

GENERAL INSTRUCTIONS					
POSITIVE STOP ANALYSIS	X)	PLM DUE DATE:	1	1	
ANALYZE NOB'S BY TEM	X	TEM DUE DATE:	1	1	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

	1	TURN AROUND TIME					
ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600						X
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAV w POINT COUNT	EPA 600	A STATISTICS					
PCM AIR	NIOSH 7400						
TEM AIR AHERA	EPA AHERA						
TEM AIR NIOSH	NIOSH 7402						
TEM BULK	CHATFIELD						X
TEM DUST WIPE	ASTM D6480-05						
TEM DUST MICROVAC	ASTM D5755-09						
TEM SOIL	ASTM D7521-13						
TEM VERMICULITE	CINCINNATI METHOD						
OTHER:							

REMARKS: Utilize Pos	sitive Stop During Analysis			/
			P	Accept Samples
				Reject Samples
Relinguished By:	Date/Time	Received By:		Date/Time
MAR	4-21-17	DC	4-0	14-17 9:00
Graght	4/28/17 16:00			

Samples will be disposed of 30 days after analysis

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ASBESTOS SAMPLING FORM



COMPANY CONTAC	T INFORMATION				
Company: Apex Environmental Mgt. Job C.		Job Contact	Contact: be Olive		
Project Name: COS 702 Saxon Ave ACM/LBP		an Child			
Project ID #: 0417	-66	Tel: 🎖	4-404-321	0	
				· · · · · · · · · · · · · · · · · · ·	
		Volume/			
SAMPLE ID#		AREA		EST	
	Roof shingles (2 layer	γ			
2	and no feit	/	PLM 🔀		
3		4			
9	Cement board 1				
5	Siding		PLM X		
6	· _		PLM	TEM 🔽	
<u> </u>	Felt paper beneath 1				
8	cenent board siding			TEM	
9			PLM	TEM 🔽	
10	Unfinished dy hall	1	PLM 🖂	ТЕМ	
			PLM 🔀	ТЕМ	
12			PLM X	ТЕМ	
13	Window glazing 1		PLM 🔀	TEM	
14			PLM X	TEM	
15			PLM	TEM 🔍	
16	Window can/K 1		PLM 🔀	ТЕМ	
			PLM 🖂	TEM	
18			PLM	TEM Z	
19	Window can/K 1		PLM 🖵	TEM	
20	/		PLM X	TEM	
21			PLM	TEM 🔀	
22	Dryvell with joint 1		PLM Z	TEM	
73	compand and tape		PLM 🔀	TEM	
Z4		-	PLM 🔀	ТЕМ	
25	Plaster with Finish 1		PLM Z	TEM	
25 26 27				TEM	
27					
	/		PLM 🔽		
28 29			PLM X		
30	Brown lorge Square patt	000 1	PLM Z		
/-	man 2 mar party				

<u>Z of 3</u> Page ____

VERSION CCOC.0214.2/2.LD Customer COC Page 2

TTT-0807 ASBESTOS SAMPLING FORM



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COMPANY CONTACT INFORMATION			
Company: Apex Environmentel Mgt.	Job Conta	ct: Ben Oliv	· · · ·
Project Name: 605 702 Saxon Ave ACM/L	8P		<u></u>
Project ID #: 0417-66	Tel:	864-404	6-2210
		-	3210
	VOLUME/		-
SAMPLE ID# DESCRIPTION / LOCATION	AREA	T	EST
3/ Viny floor with not		PLM X	ТЕМ
32 mastic		PLM	TEM Z
33 Beige medium Square po	Hen/	PLM 🔽	ТЕМ
34 Viny/ Floor with ho 35 hastic		PLM 🔽	TEM
85 hastic		PLM	TEM 🔀
36 Flooring Felt under mo 37 floors	oden 1	PLM X	TEM
37 floors	<i> </i>	PLM 🔀	TEM
38		PLM	TEM 🔽
	wer 1	PLM 🔀	
40 stall	/_	PLM 🔀	
41		PLM	TEM 🔀
42 Tan patter viny Pla	<1	PLM 🔽	
43 with no mastic	_/	PLM X	
44			TEM 🔀
			TEM
		PLM	TEM
		PLM	TEM
		PLM	
			TEM
		PLM	ТЕМ
			TEM
		PLM	TEM

Page _____ _of _3

VERSION CCOC.0214.2/2.LD Customer COC Page 2

SECTION IV

Photographic Log

Asbestos & Lead Assessment City of Spartanburg 702 Saxon Avenue Spartanburg, South Carolina



Photo 1 -- 702 Saxon Avenue in Spartanburg, SC.



Photo 2 – Roof shingles and no felt & 2 chimneys with mastic/tar assumed positive.



Photo 3 – Cement board siding with felt paper and unfinished drywall beneath.



Photo 4 – Wooden window caulk.



Photo 5 – Wooden window glazing.



Photo 6 - Vinyl window caulk.

Asbestos & Lead Assessment City of Spartanburg 702 Saxon Avenue Spartanburg, South Carolina



Photo 7 – Top layer of drywall with joint compound & tape in the living room.

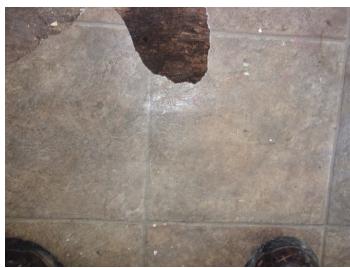


Photo 9 – Brown large square pattern vinyl floor with no mastic in the kitchen.



Photo 8 – Plaster with finish over unfinished drywall throughout.



Photo 10 – Beige medium square pattern vinyl floor with no mastic in the bathroom.



Photo 11 – Tan pattern vinyl floor with mastic under wood in the kitchen.



Photo 12 – Mastic beneath shower stall.

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED Asbestos ID Card John Oliver Airsampler As-00486 03/17/18 03/22/18