

Asbestos & Lead Based Paint Assessment

City of Spartanburg 215 Ardmore Road Spartanburg, South Carolina

Prepared for:

The City of Spartanburg 440 South Church St., Suite B Spartanburg, SC 29306-5234

Prepared by:

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

Project Number: 0815-163

January 11, 2017





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

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Apex Project Number 0815-163

January 11, 2017

Mr. Lynn Coggins City of Spartanburg 440 South Church Street, Suite B Spartanburg, SC 29306-5234

Reference: Asbestos and Lead-Based Paint Assessment Services

215 Ardmore Road

Spartanburg, South Carolina

Dear Mr. Coggins:

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.

Ted Shultz Project Manager

Appendices

Tom Oliver

Director of Operations

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

CITY OF SPARTANBURG 215 ARDMORE ROAD SPARTANBURG, SOUTH CAROLINA

APEX PROJECT NO. 0815-163

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SECTION I

Asbestos & Lead Evaluation Report

ASBESTOS/LEAD EVALUATION REPORT **APEX PROJECT NUMBER: 0815-163**

Date: 1/11//2017 Page Number: 1 of 4

Client: City of Spartanburg Client Contact: Mr. Lynn Coggins

Client 440 South Church St, Suite B, Client Phone (864) 596-2914 Address: Spartanburg, SC 29306-5234 Number:

Project: Asbestos and Lead

Evaluation

Property 215 Ardmore Road Address: Spartanburg, SC

Ted Shultz Date of 12/3/2016 Assessor:

Assessment: Company: Apex Environmental Phone Number

> Management 7 Winchester Court Mauldin, SC 29662

Purpose of Demolition Age of Approximately 50 years

Assessment: Structure:

Number of 1 Building Residential Stories: Type:

Foundation: 1,850 SF

Brick Approximate Square Footage

EXTERIOR BUILDING MATERIALS

- Brick and wooden siding.
- Wooden windows with caulk.
- Pitched wooden roof with roll shingles and felt.
- One chimney with tar assumed positive.

INTERIOR BUILDING MATERIALS

- Drywall walls and ceilings with joint compound.
- Plaster with finish walls and a portion of the ceilings.
- Wooden wall panels.
- Multiple types and layers of flooring with and without mastic.
- Flooring felt.

City of Spartanburg 215 Ardmore Road Apex Project No. 0815-163 January 11, 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. Thirty-three (33) 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). Eleven (11) samples were analyzed using TEM.

Lead-Based Paint

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

RESULTS

Asbestos Results

The EPA defines an asbestos-containing material (ACM) as a material containing more than 1% asbestos. OSHA defines ACM as a material containing any amount of asbestos. A specific *PLM* and *TEM* table is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

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

City of Spartanburg 215 Ardmore Road Apex Project No. 0815-163 January 11, 2017

- Approximately 2,200 SF of tar on roof shingles and felt.
- Approximately 6 LF of tar on the chimney is 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, SCDHEC defines LBP as paint containing in excess of, or equal to, 1.0 mg/cm³. The laboratory analytical results and chain-of-custody are included in the Lead Analysis Reports in Appendix A. The approximate locations of the paint samples collected and analytical results are presented in the Tables included with this report.

One surface in the building tested positive for lead in excess of the regulatory definition:

Interior white wooden door frames.

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 215 Ardmore Road Apex Project No. 0815-163 January 11, 2017

Lead-Based Paint

Currently the South Carolina Department of Health and Environmental Control (SCDHEC) define LBP as paint containing greater than 1.0 milligram per square centimeter (mg/cm²) lead or in excess of, or equal to, 0.5 percent lead. Building materials identified as being painted with LBP should be segregated from the other building materials and recycled or disposed of in a municipal lined landfill. The removed wastes would need to be containerized and further tested by Toxic Characteristic Leaching procedures (TCLP) to determine if the waste is classified as hazardous. The remaining building materials that are not painted with LBP may be disposed of in a construction and demolition landfill. However, the landfills should be contacted to determine their specific disposal requirements.

Occupational Safety and Health Administration Lead Regulations apply to actions initiated on lead containing materials. This regulation applies to lead concentrations greater than the analytical limit of detection. This regulation sets exposure levels on airborne lead and does not 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/cm² 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 215 Ardmore Road ACM/LBP Sampled By: Ted Shultz

Project Location: 215 Ardmore Road, Spartanburg, SC Project Manager: Ted Shultz

Project Number: 0815-163 Date: 12/3/2016

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1		Ball roof chingles (4 lover) with felt				
2	Roof	Roll roof shingles (1 layer) with felt and tar	PLM - 5% Chrysotile	Non-Friable	Damaged	2,200 SF
3		u 14.				
4		12"x12" wood pattern self-stick floor tile	PLM - NAD			
5	Front room	& mastic, wood pattern roll vinyl with no	I LIVI - NAD	Non-Friable	Good	140 SF
6		mastic, and black felt paper	TEM - NAD			
7		40 -40	PLM - NAD			
8	Kitchen	12"x12" green self-stick floor tile and mastic	PLIVI - NAD	Non-Friable	Good	140 SF
9		mastic	TEM - NAD			
10	5	12"x12" wood pattern self-stick floor tile and mastic	PLM - NAD			
11	Den, hall, and bathroom		I LIVI - IVAD	Non-Friable	Good	220 SF
12	Datinooni		TEM - NAD			
13		401.401.	PLM - NAD		Good	25 SF
14	Utility room	12"x12" grey square pattern self-stick floor tile and mastic	PLIVI - IVAD	Non-Friable		
15		noor the and maste	TEM - NAD			
16			PLM - NAD			
17	Windows	Window caulk	PLIVI - NAD	Non-Friable	Good	10 EA
18			TEM - NAD			
19						
20],,, ,					
21	Walls and a portion of ceilings	Plaster with finish	PLM - NAD	Friable	Damaged	1,600 SF
22	- Or Cellings					
23						

ASBESTOS SURVEY FIELD DATA SHEET

Project Name: COS 215 Ardmore Road ACM/LBP Sampled By: Ted Shultz

Project Location: 215 Ardmore Road, Spartanburg, SC Project Manager: Ted Shultz

Project Number: 0815-163 Date: 12/3/2016

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
24						
25						
26						
27	Walls and ceilings	Drywall and joint compound	PLM - NAD	Friable	Damaged	4,000 SF
28						
29						
30						
31						
32	Throughout ceilings	Ceiling texture	PLM - NAD	Friable	Damaged	1,000 SF
33						
Assumed		Chimney Mastic Assumed Po	sitive	Non-Friable	Good	6 LF

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

Bold = Positive For Asbestos

SF = Square Feet

Chry = Chrysotile

FIELD DATA SHEET LBP ANALYSIS

Project Name: COS 215 Ardmore Road ACM/LBP Sampled By: Thomas Oliver

Project Location: 215 Ardmore Road, Spartanburg SC Project Manager: Ted Shultz

Project Number: 0815-163 Date: 1/5/2017

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m³)
81	Exterior	Siding	Brown	Wood	0.00
82	Exterior	Soffit	Brown	Wood	0.00
83	Exterior	Front porch flor	Blue	Wood	0.00
84	Exterior	Porch header	Brown	Wood	0.00
85	Exterior	Door	Brown	Wood	0.00
86	Exterior	Door frame	Brown	Wood	0.00
87	Exterior	Window frame	Brown	Wood	0.04
88	Interior	Window frame	White	Wood	0.00
89	Interior	Window	White	Wood	0.00
90	Interior	Wall	White	Drywall	0.00
91	Interior	Ceiling	White	Drywall	0.00
92	Interior	Base board	White	Wood	0.00
93	Interior	Door frame	White	Wood	1.33
94	Interior	Wall Paneling	Brown	Wood	0.00
95	Interior	Wall Paneling	White	Wood	0.00
96	Interior	Cabinets	White	Wood	0.00
97	Interior	Wall Paneling	Tan	Wood	0.00
98		Calibrati	on		1.06
99		Calibrati	on		1.17
100		Calibrati	on		1.03

Bold is Lead Based Paint

SECTION III

Laboratory Analytical Results



December 12, 2016

Apex Environmental Management 7 Winchester Court Mauldin, SC 29662

CLIENT PROJECT: COS 215 Ardmore Rd; 0815-263

CEI LAB CODE: B16-10077

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on December 6, 2016. 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





ASBESTOS ANALYTICAL REPORT By: Polarized Light Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 215 Ardmore Rd; 0815-263

CEI LAB CODE: B16-10077

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

REPORT DATE: 12/12/16

TOTAL SAMPLES ANALYZED: 26

SAMPLES >1% ASBESTOS: 1

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 215 Ardmore Rd; 0815-263 **CEI LAB CODE:** B16-10077

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1	Layer 1	B228323	Black	Roll Shingle	None Detected
	Layer 2	B228323	Black	Felt Paper	None Detected
	Layer 3	B228323	Black	Tar	Chrysotile 5%
2		B228324		Sample Not Analyzed per COC	
3		B228325		Sample Not Analyzed per COC	
4		B228326A	Wood Pattern	Vinyl Tile	None Detected
		B228326B	Yellow	Mastic	None Detected
		B228326C	Wood Pattern	Roll Vinyl Floor	None Detected
		B228326D	Black	Felt Paper	None Detected
5		B228327A	Wood Pattern	Vinyl Tile	None Detected
		B228327B	Yellow	Mastic	None Detected
		B228327C	Wood Pattern	Roll Vinyl Floor	None Detected
		B228327D	Black	Felt Paper	None Detected
6		B228328		Sample Submitted for TEM Analysis	
7		B228329A	Green	Tile	None Detected
		B228329B	Clear	Mastic	None Detected
8		B228330A	Green	Tile	None Detected
		B228330B	Clear	Mastic	None Detected
9		B228331		Sample Submitted for TEM Analysis	
10		B228332A	Wood Pattern	Floor Tile	None Detected
		B228332B	Clear	Mastic	None Detected
11		B228333A	Wood Pattern	Floor Tile	None Detected
		B228333B	Clear	Mastic	None Detected
12		B228334		Sample Submitted for TEM Analysis	
13		B228335A	Gray	Tile	None Detected
		B228335B	Yellow	Mastic	None Detected
14		B228336A	Gray	Tile	None Detected
1		B228336B	Yellow	Mastic	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 215 Ardmore Rd; 0815-263 **CEI LAB CODE:** B16-10077

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

					ASBESTOS
Client ID	Layer	Lab ID	Color	Sample Description	%
15		B228337		Sample Submitted for TEM Analysis	
16		B228338	White	Caulk	None Detected
17		B228339	White	Caulk	None Detected
18		B228340		Sample Submitted for TEM Analysis	
19	Layer 1	B228341	White	Plaster Skim Coat	None Detected
	Layer 2	B228341	Tan	Plaster Base Coat	None Detected
20		B228342	Tan	Plaster Base Coat	None Detected
21	Layer 1	B228343	Cream	Mud	None Detected
	Layer 2	B228343	White	Plaster Skim Coat	None Detected
	Layer 3	B228343	Tan	Plaster Base Coat	None Detected
22	Layer 1	B228344	White	Plaster Skim Coat	None Detected
	Layer 2	B228344	Tan	Plaster Base Coat	None Detected
23	Layer 1	B228345	White	Mud	None Detected
	Layer 2	B228345	White	Plaster Skim Coat	None Detected
	Layer 3	B228345	Tan	Plaster Base Coat	None Detected
24	Layer 1	B228346	Gray	Drywall	None Detected
	Layer 2	B228346	White	Joint Compound	None Detected
25	Layer 1	B228347	Gray	Drywall	None Detected
	Layer 2	B228347	White	Joint Compound	None Detected
26	Layer 1	B228348	Gray	Drywall	None Detected
	Layer 2	B228348	White	Joint Compound	None Detected
27	Layer 1	B228349	Gray	Drywall	None Detected
	Layer 2	B228349	White	Joint Compound	None Detected
28	Layer 1	B228350	Gray	Drywall	None Detected
	Layer 2	B228350	White	Joint Compound	None Detected
29	Layer 1	B228351	Gray	Drywall	None Detected
	Layer 2	B228351	White	Joint Compound	None Detected
30	Layer 1	B228352	Gray	Drywall	None Detected
	Layer 2	B228352	White	Joint Compound	None Detected
31		B228353	White	Texture	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 215 Ardmore Rd; 0815-263 **CEI LAB CODE:** B16-10077

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
32		B228354	White	Texture	None Detected
33		B228355	White	Texture	None Detected



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Date Received: 12-06-16

Date Analyzed: 12-08-16

Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

Client ID	Lab	Lab	NO	NENTS	ASBESTOS		
Lab ID	Description	Attributes	Fibr	ous	Non-l	ibrous	%
1 Layer 1 B228323	Roll Shingle	Heterogeneous Black Fibrous Loosely Bound	20%	Fiberglass	30% 30% 20%	Tar Gravel Binder	None Detected
Layer 2 B228323	Felt Paper	Heterogeneous Black Fibrous Loosely Bound	60%	Cellulose	40%	Tar	None Detected
Layer 3 B228323	Tar	Heterogeneous Black Fibrous Bound			70% 25%	Tar Calc Carb	5% Chrysotile
2 B228324	Sample Not Analyzed per COC						
3 B228325	Sample Not Analyzed per COC						
4 B228326A	Vinyl Tile	Heterogeneous Wood Pattern Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected
B228326B	Mastic	Heterogeneous Yellow Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
B228326C	Roll Vinyl Floor	Heterogeneous Wood Pattern Fibrous Bound	25%	Cellulose	50% 25%	Vinyl Binder	None Detected



By: POLARIZING LIGHT MICROSCOPY

Client: **Apex Environmental Management**

CEI Lab Code: B16-10077 Date Received: 12-06-16 7 Winchester Court Date Analyzed: 12-08-16 Mauldin, SC 29662 Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

Client ID	Lab	Lab	ASBESTOS				
Lab ID	Description	Attributes	Fibr	ous	Non-l	Fibrous	%
B228326D	Felt Paper	Heterogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
5 B228327A	Vinyl Tile	Heterogeneous Wood Pattern Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected
B228327B	Mastic	Heterogeneous Yellow Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
B228327C	Roll Vinyl Floor	Heterogeneous Wood Pattern Fibrous Bound	25%	Cellulose	50% 25%	Vinyl Binder	None Detected
B228327D	Felt Paper	Heterogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
6 B228328	Sample Submitted for TEM Analysis						
7 B228329A	Tile	Heterogeneous Green Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected
B228329B	Mastic	Heterogeneous Clear Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Date Received: 12-06-16

Date Analyzed: 12-08-16

Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes		N-ASBESTOS rous		NENTS Fibrous	ASBESTOS %
8 B228330A	Tile	Heterogeneous Green Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected
B228330B	Mastic	Heterogeneous Clear Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
9 B228331	Sample Submitted for TEM Analysis						
10 B228332A	Floor Tile	Heterogeneous Wood Pattern Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected
B228332B	Mastic	Heterogeneous Clear Fibrous Bound	5%	Cellulose	70% 25%	Mastic Non-Fibrous Debris	None Detected
11 B228333A	Floor Tile	Heterogeneous Wood Pattern Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected
B228333B	Mastic	Heterogeneous Clear Fibrous Bound	5%	Cellulose	70% 25%	Mastic Non-Fibrous Debris	None Detected
12	Sample Submitted for						

12 Sample Submitted for B228334 TEM Analysis



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: **Apex Environmental Management**

Date Received: 12-06-16 7 Winchester Court Date Analyzed: 12-08-16 Mauldin, SC 29662 Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lub		NON-ASBESTOS COMPONENTS Fibrous Non-Fibrous			ASBESTOS %	
13 B228335A	Tile	Heterogeneous Gray Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected	
B228335B	Mastic	Heterogeneous Yellow Fibrous Bound	5%	Cellulose	70% 25%	Mastic Non-Fibrous Debris	None Detected	
14 B228336A	Tile	Heterogeneous Gray Fibrous Bound	2%	Cellulose	70% 20% 8%	Vinyl Calc Carb Binder	None Detected	
B228336B	Mastic	Heterogeneous Yellow Fibrous Bound	5%	Cellulose	70% 25%	Mastic Non-Fibrous Debris	None Detected	
15 B228337	Sample Submitted for TEM Analysis							
16 B228338	Caulk	Heterogeneous White Non-fibrous Bound			100%	Caulk	None Detected	
17 B228339	Caulk	Heterogeneous White Non-fibrous Bound			100%	Caulk	None Detected	
18 B228340	Sample Submitted for TEM Analysis							



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Date Received: 12-06-16

Date Analyzed: 12-08-16

Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

Client ID	Lab	Lab	NO	N-ASBESTOS	NENTS	ASBESTOS	
Lab ID	Description	Attributes	Fibr	ous	Non-l	Fibrous	%
19 Layer 1 B228341	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			50% 45% 5%	Binder Calc Carb Paint	None Detected
Layer 2 B228341	Plaster Base Coat	Heterogeneous Tan Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected
20 B228342 Lab Notes: I	Plaster Base Coat No skim coat present	Heterogeneous Tan Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected
21 Layer 1 B228343	Mud	Heterogeneous Cream Fibrous Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected
Layer 2 B228343	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			50% 45% 5%	Binder Calc Carb Paint	None Detected
Layer 3 B228343	Plaster Base Coat	Heterogeneous Tan Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected
22 Layer 1 B228344	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			50% 45% 5%	Binder Calc Carb Paint	None Detected



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: Apex Environmental Management

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Mauldin, SC 29662

Date Received: 12-06-16

Date Analyzed: 12-08-16

Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

Client ID	Lab	Lab	NENTS	ASBESTOS			
Lab ID	Description	Attributes	Fibrous		Non-l	Fibrous	%
Layer 2 B228344	Plaster Base Coat	Heterogeneous Tan Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected
23 Layer 1 B228345	Mud	Heterogeneous White Fibrous Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected
Layer 2 B228345	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			50% 45% 5%	Binder Calc Carb Paint	None Detected
Layer 3 B228345	Plaster Base Coat	Heterogeneous Tan Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected
24 Layer 1 B228346	Drywall	Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected
Layer 2 B228346	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected
25 Layer 1 B228347	Drywall	Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Date Received: 12-06-16

Date Analyzed: 12-08-16

Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

Client ID	Lab	Lab	NO	N-ASBESTOS	COMPO	NENTS	ASBESTOS	
Lab ID	Description	Attributes	Fibrous		Non-l	Fibrous	%	
Layer 2 B228347	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected	
26 Layer 1 B228348	Drywall	Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected	
Layer 2 B228348	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected	
27 Layer 1 B228349	Drywall	Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected	
Layer 2 B228349	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected	
28 Layer 1 B228350	Drywall	Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected	
Layer 2 B228350	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected	



By: POLARIZING LIGHT MICROSCOPY

CEI Lab Code: B16-10077

Client: Apex Environmental Management

7 Winchester Court

Mauldin, SC 29662

Date Received: 12-06-16

Date Analyzed: 12-08-16

Date Reported: 12-12-16

Project: COS 215 Ardmore Rd; 0815-263

Client ID	Lab	Lab	NO	N-ASBESTOS	СОМРО	NENTS	ASBESTOS	
Lab ID	Description Drywall	Attributes	Fibrous		Non-l	ibrous	%	
29 Layer 1 B228351		Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected	
Layer 2 B228351	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected	
30 Layer 1 B228352	Drywall	Heterogeneous Gray Fibrous Bound	10%	Cellulose	60% 30%	Gypsum Binder	None Detected	
Layer 2 B228352	Joint Compound	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	70% 20% 8%	Calc Carb Binder Paint	None Detected	
31 B228353	Texture	Heterogeneous White Fibrous Loosely Bound	5%	Cellulose	70% 10% 15%	Calc Carb Perlite Binder	None Detected	
32 B228354	Texture	Heterogeneous White Fibrous Loosely Bound	5%	Cellulose	70% 10% 15%	Calc Carb Perlite Binder	None Detected	
33 B228355	Texture	Heterogeneous White Fibrous Loosely Bound	5%	Cellulose	70% 10% 15%	Calc Carb Perlite Binder	None Detected	



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

LIMIT OF DETECTION: <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.

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. 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

Sarah Tallev

APPROVED BY:

Tianbao Bai, Ph.D., CIH Laboratory Director

NVLAP LAB CODE 101768-0



107 New Edition Court, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442

CHAIN OF CUSTODY

LAB USE ONLY:		
CEI Lab Code: BIG - 10077	(33)	
CEI Lab I.D. Range: 18228323		58322

COMPANY CONTACT INF	ORMATION								
Company: Apex Environmental Management				Client #:					
Address: 7 Winchester Court			Job Cont	tact:	Fed	Shal	+2		
Mauldin, SC 29662			Emoils	451	1400		+2 c-ehs	5 (
Wadiditi, 3C 29002						apex	-643	COW	
			Tel: 864-	404-3210					
Project Name: COS 2,	15 Ardmore	Rd	Fax:						
Project ID#: 08/5	-263		P.O. #:						
ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY		
PLM BULK	EPA 600								
TEM BULK	CHATFIELD				- D				
PLM POINT COUNT (400)	EPA 600								
PLM POINT COUNT (1000)	EPA 600						·		
PLM GRAVIMETRIC	EPA 600		N 4 1 1 1						
PLM GRAV w POINT COUNT	EPA 600								
OTHER:									
POSITIVE STOP ANALYSIS]					
SOUTH CAROLINA SAMPLES									
TEM INSTRUCTIONS				1					
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sufficient weight for TEM		1 1110 041	no group	o to dom	CVC				
						,			
							Accept	Samples	
.5.							Reject S	Samples	
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Jul / Julits	12-5-16 11/28	3/2016			ΔC		10.11	•	
1 mondano	5. copin				ric		0101	16	

*Call to confirm RUSH analysis.

Samples will be disposed of 30 days after analysis



SAMPLING FORM

COMPANY CONTACT INFORMATION	13160-10077
Company: Apex Env. Mgmt.	Job Contact: Trad Shulfz
Project Name: COS -215 Ardmore Rd	
Project ID #: 08/5 - 163	Tel: 803-348-49>1

SAMI	PLE ID#	DESCRIPTION / LOCATION		TEST
1	Root	1 roll shingle	PLM 🖊	TEM 🗆
2	1	i felt +	PLM 🖊	тем 🗆
3		tar	PLM 🗆	TEM 🖊
4	Front RM	wood pat. self stick viny/+1	PLM	тем 🗆
5		wood pat roll vinyl flr"	PLM 🛨	тем 🗆
6		blk felt paper	PLM 🗀	TEM 🖊
6 7 8	Kitchen	12x12 Self Stick green tile	PLM 💆	TEM
8		1	PLM 🗹	TEM
9			PLM 🗆	TEM 🖊
10		12 XIZ Self Stick wood	PLM	тем 🗆
1)	Hallway	pat. fir tile 1	PLM 🖃	тем 🗆
12	bath RM		PLM 🗆	TEM 🖊
13	htility am	Frey 12X12 Self Stick Tile		TEM
17		1	PLM 🖊	тем 🗆
15			PLM 🗆	TEM 🗡
16	Windows	Can/k	PLM 🗷	TEM
17			PLM 🗹	TEM
18			PLM	TEM 🗵
19	walls+	Plaster	PLM 📮	TEM
20	SOME.	<u> </u>	PLM 🔲	TEM
21	Ctiling		PLM 🔲	TEM
22			PLM 🗍	TEM
23			PLM 🗇	TEM
24	walls a	drywal & joint	PLM 🖵	TEM 🗆
25	celing	pompound	PLM 🗀	TEM 🗆
26	-		PLM D	TEM
27 28			PLM 🔲	TEM
29			PLM 🔲	TEM
30			PLM D	TEM
20			PLM 🗘	TEM

Page 2 of 3



SAMPLING FORM

COMPANY CONTACT INFORMATION	B1(e-10077
COMPANT CONTACT INFORMATION	
Company: Apex Env. Mgmt.	Job Contact: Ted Shulfz
Project Name: COS- 215 Ardmore Rd	
Project ID #: 0815-163	Tel: 803-348-4921

SAMPLE ID#	DESCRIPTION / LOCATION	. K. J. M. 1880	TEST
	texture	PLM 🏳	TEM 🗆
31 Ceiling 32 33	700701	PLM D	
33		PLM D	TEM
33		PLM	TEM .
		PLM	TEM TEM
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		PLM 🗆	TEM -
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		PLM 🗆	TEM 🗆
		PLM 🗆	TEM
		PLM 🗆	TEM

Page 3 of 3



December 15, 2016

Apex Environmental Management 7 Winchester Court Mauldin, SC 29662

CLIENT PROJECT: COS 215 Ardmore Rd; 0815-263

CEI LAB CODE: T16-1925

Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on December 8, 2016. 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

Mansao Di



ASBESTOS ANALYTICAL REPORTBy: Transmission Electron Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 215 Ardmore Rd; 0815-263

CEI LAB CODE: T16-1925

TEST METHOD: Bulk Chatfield

EPA 600 / R93 / 116

REPORT DATE: 12/15/16

TEL: 866-481-1412

www.ceilabs.com



By: TRANSMISSION ELECTRON MICROSCOPY

Client: Apex Environmental Management

7 Winchester Court Mauldin, SC 29662

 CEI Lab Code:
 T16-1925

 Date Received:
 12-08-16

 Date Analyzed:
 12-14-16

 Date Reported:
 12-15-16

Project: COS 215 Ardmore Rd; 0815-263

TEM BULK CHATFIELD / EPA 600 / R93 / 116

	CHATFIELD / EPA 600					
Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
6 T56111	Wood Pattern Vinyl Tile	0.22	81.8	15.9	2.3	None Detected
6 T56112	Yellow Mastic	0.108	59.3	38.9	1.8	None Detected
6 T56113	Wood Pattern Roll Vinyl Floor	0.223	61.4	22.4	16.2	None Detected
6 T56114	Black Felt Paper	0.382	92.1	5.2	2.7	None Detected
9 T56115	Green Tile	0.411	24.6	72.5	2.9	None Detected
9 T56116	Clear Mastic	0.108	29.6	68.5	1.9	None Detected
12 T56117	Wood Pattern Floor Tile	0.368	23.1	76.4	.5	None Detected
12 T56118	Clear Mastic	0.208	27.4	63.5	9.1	None Detected
15 T56119	Gray Tile	0.478	22.6	74.5	2.9	None Detected
15 T56120	Yellow Mastic	0.114	32.5	66.7	.8	None Detected
18 T56121	Caulk	0.313	32.3	66.5	1.2	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.

ANALYST:

APPROVED BY:

Tianbao Bai, Ph.D., CIH Laboratory Director



Call to confirm RUSH analysis.

107 New Edition Court, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442

CHAIN OF CUSTODY

TU (1)5	LAB USE ONLY:
T16-1925	CEI Lab Code: Bl (6 - 1007) (33)
56011-121(1)	CEI Lab Code: 1816 - 10077 (83) CEI Lab I.D. Range: 1828333 - 1828355

COMPANY CONTACT INF	ORMATION			1. 1.				
Company: Apex Environmenta	Client #:							
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Mauldin, SC 29662			Email	4-1	16- 0	20141	+2 c-ehs	
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0.0.0	- 1 .		Tel: 864-	404-3210				
Project Name: COS 2,	5 Ardmore	Rd	Fax:					
Project ID#: 08/5	-263		P.O. #:					
and the second second second								
ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY	
PLM BULK	EPA 600							
TEM BULK	CHATFIELD			× 🔲				
PLM POINT COUNT (400)	EPA 600		1947					
PLM POINT COUNT (1000)	EPA 600							
PLM GRAVIMETRIC	EPA 600	77.4					. П	
PLM GRAV w POINT COUNT	EPA 600			* 🔲 .				
OTHER:								
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POSITIVE STOP ANALYSIS								
SOUTH CAROLINA SAMPLES								
TEM INSTRUCTIONS								
BEGIN TEM ANALYSIS AFTER	NEGATIVE PLM	TRACTIONAL PROPERTY CONTROL SECURIO						
ANALYZE TEM SAMPLES SIMU	JLTANEOUSLY WITH PLM	1		*				÷
						b		
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REMARKS: If needed, cor sufficient weight for TEM a	nome samples from	the sam	ne group	to achie	eve			
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1//////	15-5-11	2010		Receiv	ed By:		Date/Ti	me

Samples will be disposed of 30 days after analysis



SAMPLING FORM

COMPANY CONTACT INFORMATION					
Company: Apex Env. Mgmt.	Job Contact: Ty & Shuffz				
Project Name: COS -215 A-Lmore Rd					
Project ID #: 08/5 - 163	Tel: 803-348-49>1				

SAMI	PLE ID#	DESCRIPTION / LOCATION			TES	T
2	Root	1 roll shingle	PLM	Z	TEM	
		1 felt +	PLM		TEM	
3		tar	PLM		TEM	
4	Front RM	301 3/10/0 0114/ 1	PLM		TEM	
	-	wood pat roll vinyl flr	PLM		TEM	
6		blk felt paper	PLM		TEM	
6 7 8	Kitchen	12×12 Self stick green tile	PLM	7	TEM	
9		1	PLM		TEM	
	مسلمين		PLM		TEM	D
10	Den	12 X12 Self Stick wood	PLM		TEM	
12	Hallway	pat. fir tile	PLM		TEM	
	bathem		PLM		TEM	Z
13	utility am	Frey 12X/2 Seff Stick Tile	PLM		TEM	
14		1	PLM	Z	TEM	
15	1 1 1		PLM		TEM	
16	Windows	can/k	PLM		TEM	
17		/	PLM		TEM	
18			PLM		TEM	
19	wallst	Plaster	PLM	T	TEM	
20	Some.		PLM	中	TEM	
21	Chiling		PLM	<u> </u>	TEM	
22			PLM	中	TEM	
23	. 11		PLM	中	TEM	
24 25	walls 4	dry wal & joint	PLM	7	TEM	
26	celing	compound	PLM	中	TEM	
	-1		PLM	中	TEM	
77			PLM	中	TEM	
			PLM		TEM	
29			PLM	中	TEM	
30		4/December	PLM	\Box	TEM	

Page _ 2_ of 3



SAMPLING FORM

COMPANY CONTACT INFORMATION					
Company: Apex Env. Mgmt.	Job Contact: Tod Shorth				
Project Name: COS- 215 Ardmore &					
Project ID #: 0815-163	Tel: 803-348-4921				

Constitution of the second second		Allegary restrictions are allegary and a second	Character Constitution of the Constitution of
SAMPLE ID#	DESCRIPTION / LOCATION		
31 Ceiling	DESCRIPTION/ESCATION		TEST
37 (11/149)	texture	PLM 🖺	TEM
31 Ceiling 32 1 33 1		PLM 📙	TEM
33	· · · · · · · · · · · · · · · · · · ·	PLM 💭	TEM
		PLM 🗆	TEM
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Page 3 of 3

SECTION IV

Photographic Log



Photo 1 – 215 Ardmore Road.



Photo 2 – Kitchen flooring.



Photo 3 – Chimney with assumed tar.



Photo 4 – Front room 2 layers of flooring and black felt.



Photo 5 – Utility room flooring.



Photo 6 – Hallway flooring.



Photo 7 – Ceiling texture, drywall and plaster in kitchen.



Photo 8 – Ceiling texture, drywall and plaster in kitchen.

SECTION V

SC DHEC Asbestos Inspector License



Tedman K Shultz 201 Cannon Circle Greenville, SC 29607

110723

North Carolina Asbestos Accreditation

EXPIRATION : .02-28-2017				
DOB	SEX	HT	WT	
03-16-1972	М	5'10"	270	
CLASS		#	EXP	
AIR MONITOR		80864	02-17	
INSPECTOR		12900	01-17	

SCDHEC ISSUED

Asbestos ID Card

Tedman K Shultz

Expiration Date



AIRSAMPLER AS-00355 02/02/17 CONSULTBI BI-00971 01/20/17