

Asbestos & Lead Based Paint Assessment

City of Spartanburg 620 Humphrey Street 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: 0815-163

January 24, 2018





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 24, 2018

Mr. Jeff Tillerson City of Spartanburg 440 South Church Street, Suite B Spartanburg, South Carolina 29306

Reference: Asbestos and Lead-Based Paint Assessment Services 620 Humphrey Street Spartanburg, South Carolina

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.**

echnan k. Shul

Ted Shultz Project Manager Appendices

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

CITY OF SPARTANBURG 620 HUMPHREY STREET 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:	1/24/2018	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 and Lead Evaluation			
Property Address:	620 Humphrey Street Spartanburg, SC			
Assessor:	Ted Shultz	Date of Assessment:	11/21/2016	
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210	
Purpose of Assessment:	Demolition	Age of Structure:	50+ years	
Building Type:	Residential	Number of Stories:	1	
Foundation:	Block	Approximate Square Footage	1,100 SF	

EXTERIOR BUILDING MATERIALS

- Pitched wooden roof with shingles and no felt.
- Rear porch with shingles and felt.
- Metal windows.
- One chimney with tar assumed.

Panel walls.

INTERIOR BUILDING MATERIALS

• Wood floors.

- Drywall walls and ceilings.Multiple types and layers of flooring
- Multiple types and layers of nooring with and without mastic.
- Most of the ceiling has collapsed.
- Unstable flooring is some areas.

City of Spartanburg 620 Humphrey Street Apex Project No: 0815-163 January 24, 2018

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. Twenty (20) 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). Ten (10) 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. A specific *PLM* and *TEM Data Table* is located in Appendix II of this report and identifies positive materials and designates approximate quantities.

Apex performed a full assessment within the residence at the time of the survey. During the assessment, a portion of the floors and ceilings were observed to be collapsed. Due to safety concerns during abatement activities and the feasibility of building a full containment due to the

City of Spartanburg 620 Humphrey Street Apex Project No: 0815-163 January 24, 2018

condition of the residence, 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:

- Joint Compound.
- Window glazing.
- Chimney Caulk assumed
- Approximately 1,100 SF of building materials and contaminated debris within the structure.

Lead Based Paint

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms per cubic meter (30 μ g/m³) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter (50 μ g/m³) for employees.

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

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

Exterior

• White wooden back porch door frame.

Interior

• White sheet rock ceiling in the kitchen.

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. 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.

City of Spartanburg 620 Humphrey Street Apex Project No: 0815-163 January 24, 2018

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.

Lead-Based Paint

Currently the South Carolina Department of Health and Environmental Control (SCDHEC) define LBP as paint containing greater than 1 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/ cm^2 or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter (μ g/m³) is established, personal air monitoring may be terminated. The full OSHA lead standard should be referenced for compliance.

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

SECTION II

Asbestos & LBP Data Tables

ASBESTOS SURVEY FIELD DATA SHEET PLM & TEM ANALYSIS

Project Name: COS 620 Humphrey Street ACM/LBP

Project Location: 620 HumphreyStreet,Spartanburg, SC

Project Number: 0815-163

Project Manager:

Date:

11/21/2016

Sample No.	Location	Sample Description	Sample Description Analytical Results		Condition	Quantity
1						
2	Throughout ceilings and a					
3	quarter of the	Drywall, joint compound and tape	2% Chrysotile - Joint Compound	Friable	Damaged	800 SF
4	walls					
5						
6			PLM - NAD			
7	Bathroom	12"x12" tan pattern self-stick flooring		Non-Friable	Good	35 SF
8			TEM - TBD			
9		12"x12" beige flooring, grev roll vinvl PLM - NAD				
10	Kitchen	12"x12" beige flooring, grey roll vinyl with mastic		Friable	Damaged	100 SF
11			TEM - TBD			
12			PLM - NAD	Non-Friable	Damaged	50 SF
13	Rear porch	Roofing shingles (1 layer) and felt				
14			TEM - TBD			
15			PLM - NAD		Damaged	1,250 SF
16	Main roof	Roofing shingles (2 layer) and felt	FEM-NAD	Non-Friable		
17			TEM - TBD			
18						
19	Windows	Window glazing	2% Chrysotile	Friable	Damaged	10 EA
20						
		Chimney Mastic Assumed Po	ositive	Non-Friable	Good	6 LF

Bold = Positive For Asbestos

SF = Square Feet

TBD = To Be Determined

Ted Shultz Sampled By: Ted Shultz

FIELD DATA SHEET LBP XRF ANALYSIS

Project Name:	COS 620 Humphrey	Street ACM/LBP	-	Sampled By:	Ted Shultz
Project Location:	620 Humphrey Stree	et, Spartanburg, SC	-	Project Manager:	Ted Shultz
Project Number: 0815-163			-	Date:	12/8/2016
Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
Sample No.	Sample Location Outside	Component Block/wall	Color White	Substrate Block	Analytical Result (mg/m ³) 0.00
•		•			(mg/m ³)
52	Outside	Block/wall	White	Block	(mg/m ³) 0.00

52	Outside	Block/wall	White	Block	0.00
53	Outside	Back porch door frame	White	Wood	1.53
54	Kitchen	Cabinet	Tan	Wood	0.00
55	Kitchen	Window frame	Black	Metal	0.16
56	Kitchen	Door frame	White	Wood	0.00
57	Kitchen	Ceiling	White	Sheet rock	1.57
58	Living room	Wall	Tan	Sheet rock	0.00
59	Living room	Mantel	Red	Wood	0.13
60	Living room	Closet	Blue	Sheet rock	0.01

SECTION III

Laboratory Analytical Results



November 28, 2016

Apex Environmental Management 7 Winchester Court Mauldin, SC 29662

CLIENT PROJECT:COS 620 Humphrey St; 0815-163CEI LAB CODE:A16-9970

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 23, 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,

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 620 Humphrey St; 0815-163

CEI LAB CODE: A16-9970

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

REPORT DATE: 11/28/16

TOTAL SAMPLES ANALYZED: 10

SAMPLES >1% ASBESTOS: 2

TEL: 866-481-1412

www.ceilabs.com



PROJECT: COS 620 Humphrey St; 0815-163

CEI LAB CODE: A16-9970

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1	Layer 1	A2271176	Gray	Joint Compound	Chrysotile 2%
	Layer 2	A2271176	Gray,Tan	Drywall & Tape	None Detected
2		A2271177		Sample Not Analyzed per COC	
3		A2271178		Sample Not Analyzed per COC	
4		A2271179		Sample Not Analyzed per COC	
5		A2271180		Sample Not Analyzed per COC	
6		A2271181A	Tan	Tile	None Detected
		A2271181B	Clear	Mastic	None Detected
7		A2271182A	Tan	Tile	None Detected
		A2271182B	Clear	Mastic	None Detected
8		A2271183		Sample Submitted for TEM Analysis	
9		A2271184A	Beige	Tile	None Detected
		A2271184B	Clear	Mastic	None Detected
		A2271184C	Gray,Red	Vinyl	None Detected
10		A2271185A	Beige	Tile	None Detected
		A2271185B	Clear	Mastic	None Detected
		A2271185C	Gray,Red	Vinyl	None Detected
11		A2271186		Sample Submitted for TEM Analysis	
12	Layer 1	A2271187	Black	Shingle	None Detected
	Layer 2	A2271187	Black	Felt	None Detected
13	Layer 1	A2271188	Black	Shingle	None Detected
	Layer 2	A2271188	Black	Felt	None Detected
14		A2271189		Sample Submitted for TEM Analysis	
15	Layer 1	A2271190	Black	Shingle	None Detected
	Layer 2	A2271190	Black	Shingle	None Detected
	Layer 3	A2271190	Black	Felt	None Detected
16	Layer 1	A2271191	Black	Shingle	None Detected
	Layer 2	A2271191	Black	Shingle	None Detected
	Layer 3	A2271191	Black	Felt	None Detected



PROJECT: COS 620 Humphrey St; 0815-163

CEI LAB CODE: A16-9970

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
17		A2271192		Sample Submitted for TEM Analysis	
18		A2271193	Gray	Window Glazing	Chrysotile 2%
19		A2271194		Sample Not Analyzed per COC	
20		A2271195		Sample Not Analyzed per COC	





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

CEI Lab Code:	A16-9970
Date Received:	11-23-16
Date Analyzed:	11-28-16
Date Reported:	11-28-16

Project: COS 620 Humphrey St; 0815-163

ASBESTOS BULK PLM, EPA 600 METHOD **NON-ASBESTOS COMPONENTS Client ID** Lab Lab ASBESTOS Description Lab ID Attributes **Fibrous Non-Fibrous** % Joint Compound 2% Chrysotile 1 Heterogeneous 5% Paint Layer 1 Gray 35% Calc Carb A2271176 Non-fibrous 58% Binder Bound Layer 2 Drywall & Tape Heterogeneous 20% Cellulose 80% Gypsum None Detected A2271176 Gray, Tan Fibrous Bound 2 Sample Not Analyzed per COC A2271177 3 Sample Not Analyzed A2271178 per COC Sample Not Analyzed 4 per COC A2271179 5 Sample Not Analyzed per COC A2271180 Tile Heterogeneous 100% Vinyl None Detected 6 A2271181A Tan Non-fibrous Bound A2271181B 100% None Detected Mastic Heterogeneous Mastic Clear Non-fibrous Bound 7 Tile Heterogeneous 100% Vinyl None Detected A2271182A Tan Non-fibrous Bound





Client: Apex Environmental Management 7 Winchester Court Mauldin, SC 29662
 CEI Lab Code:
 A16-9970

 Date Received:
 11-23-16

 Date Analyzed:
 11-28-16

 Date Reported:
 11-28-16

Project: COS 620 Humphrey St; 0815-163

Client ID	Lab	Lab		N-ASBESTOS	ASBESTOS		
Lab ID	Description	Attributes	Fibr	ous	Non-F	ibrous	%
A2271182B Mastic		Heterogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected
8 A2271183	Sample Submitted for TEM Analysis						
9 A2271184A	Tile	Heterogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
A2271184B	Mastic	Heterogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected
A2271184C	Vinyl	Heterogeneous Gray,Red Non-fibrous Bound	40%	Cellulose	35% 25%	Vinyl Vinyl	None Detected
10 A2271185A	Tile	Heterogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
A2271185B	Mastic	Heterogeneous Clear Non-fibrous Bound			100%	Mastic	None Detected
A2271185C	Vinyl	Heterogeneous Gray,Red Non-fibrous Bound	40%	Cellulose	35% 25%	Vinyl Vinyl	None Detected





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

 CEI Lab Code:
 A16-9970

 Date Received:
 11-23-16

 Date Analyzed:
 11-28-16

 Date Reported:
 11-28-16

Project: COS 620 Humphrey St; 0815-163

ASBESTOS BULK PLM, EPA 600 METHOD **NON-ASBESTOS COMPONENTS Client ID** Lab Lab **ASBESTOS** Lab ID Description Attributes **Fibrous Non-Fibrous** % Sample Submitted for 11 **TEM Analysis** A2271186 12 Shingle Heterogeneous 45% Fiberglass 15% Gravel None Detected Layer 1 Black 40% Tar A2271187 Fibrous Bound Felt Heterogeneous 70% Cellulose 30% Tar None Detected Layer 2 A2271187 Black Fibrous Bound 13 Shingle Heterogeneous 45% Fiberglass 15% Gravel None Detected 40% Tar Layer 1 Black A2271188 Fibrous Bound Felt Heterogeneous 70% Cellulose 30% Tar Layer 2 None Detected A2271188 Black Fibrous Bound 14 Sample Submitted for **TEM Analysis** A2271189 Heterogeneous 45% 15 Shingle Fiberglass 15% Gravel None Detected 40% Layer 1 Black Tar A2271190 Fibrous Bound Shingle Heterogeneous 45% Cellulose 15% None Detected Layer 2 Gravel A2271190 40% Black Tar Fibrous

Bound





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

CEI Lab Code:	A16-9970
Date Received:	11-23-16
Date Analyzed:	11-28-16
Date Reported:	11-28-16

Project: COS 620 Humphrey St; 0815-163

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab Lab ID Description		Lab Attributes	NO Fibr	N-ASBESTOS ous		NENTS Fibrous	ASBESTOS %
Layer 3 Felt A2271190	Heterogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected	
16 Layer 1 A2271191	Shingle	Heterogeneous Black Fibrous Bound	45%	Fiberglass	15% 40%	Gravel Tar	None Detected
Layer 2 A2271191	Shingle	Heterogeneous Black Fibrous Bound	45%	Cellulose	15% 40%	Gravel Tar	None Detected
Layer 3 A2271191	Felt	Heterogeneous Black Fibrous Bound	70%	Cellulose	30%	Tar	None Detected
17 A2271192	Sample Submitted for TEM Analysis						
18 A2271193	Window Glazing	Heterogeneous Gray Fibrous Bound			5% 83% 10%	Paint Binder Silicates	2% Chrysotile
19 A2271194	Sample Not Analyzed per COC						
20 A2271195	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

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: Mus

Candace Burrus

APPROVED BY:

Tianbao Bai, Ph.D., Laboratory Director





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

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LAB USE ONLY:

CEI Lab Code:

CEI Lab I.D. Range:

COMPANY CONTACT INFORMATION				
Company: Apex Environmental Management	Client #:			
Address: 7 Winchester Court	Job Contact: Rebecca Shultz			
Mauldin, SC 29662	Email:			
	Tel: 864-404-3210			
Project Name: COS 620 Humphrey St	Fax:			
Project ID #: 0815-163	P.O. #:			

ASBESTOS	METHOD	4 HR*	8 HR*	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600					Х	
TEM BULK	CHATFIELD					Х	
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAVIMETRIC	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
OTHER:							

POSITIVE STOP ANALYSIS	х
SOUTH CAROLINA SAMPLES	х

TEM INSTRUCTIONS				
BEGIN TEM ANALYSIS AFTER NEGATIVE PLM	х			
ANALYZE TEM SAMPLES SIMULTANEOUSLY WITH PLM				

REMARKS: If needed, combine samp sufficient weight for TEM analysis.	les from the same	e group to achieve		
				Accept Samples
				Reject Samples
Relinquished By:	Date/Time	Received By:		Date/Time
Rebecca Shultz	11/22/2016		A	12316
0				9:20

*Call to confirm RUSH analysis.

Samples will be disposed of 30 days after analysis

A16 9970



SAMPLING FORM

COMPANY CONTACT INFORMATION				
Company: Apex Env. Mgmt.	Job Contact:			
Project Name: COS 620 Humphrey St.				
Project ID #:	Tel:			

SAMPLE ID#	DESCRIPTION / LOCATION		TEST
1	Drywall, JC, tape	PLM X	
2	Drywall, JC, tape		
3	Drywall, JC, tape		
4	Drywall, JC, tape	PLM X	
5	Drywall, JC, tape		
6	12" x 12" self adhesive tan patterned tile		
7	12" x 12" self adhesive tan patterned tile		
8	12" x 12" self adhesive tan patterned tile		
9	12" x 12" Sen adhesive tan patterned the	PLM X	
10	12" x 12" Bege Floor tile with gray vinyl beneath		
11	12" x 12" Bege Floor tile with gray vinyl beneath		
12	Shingle & Felt		
12	Shingle & Felt		
13	Shingle & Felt		
15	2 layers Shingle & Felt		
16	2 layers Shingle & Felt		
17	2 layers Shingle & Felt		
18	window glazing		
19	window glazing		
20	window glazing		
20			
		PLM	
	×		
			ТЕМ
		PLM	тем 🗆

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SECTION IV

Photographic Log



Photo 1 – 620 Humphrey Street in Spartanburg, South Carolina.



Photo 2 – Drywall, joint compound and tape throughout the ceilings and a quarter of the walls.



Photo 3 – Roofing shingles and felt on the roof and chimney mastic assumed positive.



Photo 4 – Exterior windows with glazing.



Photo 5 - 12"x12" tan pattern self-stick flooring in the bathroom.



Photo 6 – Typical view of collapsed drywall, joint compound and tape ceiling.

Asbestos & Lead Assessment City of Spartanburg 620 Humphrey Street Spartanburg, South Carolina



Photo 7 – Drywall with joint compound and tape throughout the ceilings and a quarter of the walls.



Photo 8 – Typical view of collapsed and unstable flooring in portions of the residence.



Photo $9 - 12^{\circ}x12^{\circ}$ beige flooring over grey roll vinyl with mastic in the kitchen.



Photo 10 - Typical view of collapsed and unstable flooring in portions of the residence.

SECTION V

SC DHEC Asbestos Inspector License



Tedman K Shultz 201 Cannon Circle Greenville, SC 29607

110723

North Carolina Asbestos Accreditation

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



ä

Tedman K Shultz

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

Expiration Date