



Asbestos & Lead Based Paint Assessment

City of Spartanburg
30 Varner Street
Spartanburg, South Carolina 29306

Prepared for:
The City of Spartanburg
440 South Church St., Suite B
Spartanburg, SC 29306

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

Project Number: 0118-14

September 6, 2018





Apex Project Number 0118-14

September 6, 2018

7 Winchester Court
Mauldin, SC 29662
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864.404.3213 fax
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Mr. Jeff Tillerson
City of Spartanburg
440 South Church Street, Suite B
Spartanburg, SC 29306

Reference: Asbestos and Lead-Based Paint Assessment Services
30 Varner Street
Spartanburg, South Carolina 29306

SERVICES

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

Dear Mr. Tillerson:

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

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

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

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

Respectfully submitted,
APEX ENVIRONMENTAL MANAGEMENT, INC.

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

Tom Oliver
Director of Operations

Appendices

ASBESTOS AND LEAD BASED PAINT ASSESSMENT

**CITY OF SPARTANBURG
30 VARNER STREET
SPARTANBURG, SOUTH CAROLINA 29306**

APEX PROJECT NO. 0118-14

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SECTION I

Asbestos & Lead Evaluation Report

**ASBESTOS EVALUATION REPORT
APEX PROJECT NUMBER: 0118-14**

Date:	9/6/2018	Page Number:	1 of 4
Client:	City of Spartanburg	Client Contact:	Mr. Jeff Tillerson
Client Address:	440 South Church Street Suite B Spartanburg, SC 29306	Client Phone Number:	(864) 596-2911
Project:	Asbestos Evaluation and Lead Based Paint Assessment		
Property Address:	30 Varner Street Spartanburg, SC 29306		
Assessor:	Tom Oliver	Date of Assessment:	8/17//2018
Company:	Apex Environmental Management 7 Winchester Court Mauldin, SC 29662	Phone Number:	(864) 404-3210
Purpose of Assessment:	Demolition	Age of Structure:	Approximately 80 years
Building Type:	Residential	Number of Stories:	1
Foundation:	CMU Block Crawlspace	Approximate Square Footage:	1,000 SF

EXTERIOR BUILDING MATERIALS

- Pitched wooden roof with shingles & no felt.
- Wooden siding.
- Wooden windows with glazing & caulk.
- Wooden doors with no caulk.
- 1 chimney with mastic/tar – assumed positive.

INTERIOR BUILDING MATERIALS

- Drywall with joint compound & tape ceiling in the bathroom.
- 12" x 12" ceiling tiles on a grid system with no mastic.
- Wooden wall panels with no mastic.
- Wooden floors, walls & ceilings.
- Multiple types & layers of vinyl floors with & without mastics.

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 Eurofins CEI Labs, Inc. (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-one (21) 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). Nine (9) 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. It should be noted that materials were identified to contain less than 1% asbestos and OSHA Construction Industry Asbestos Standards (29 CFR 1926.1101) will apply if those materials are disturbed during renovation or demolition activities. A specific *PLM and TEM Data 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:

- Approximately 6 LF of chimney mastic/tar on 1 chimney - 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 ($30 \mu\text{g}/\text{m}^3$) during an eight-hour workday and a permissible exposure level of fifty micrograms per cubic meter ($50 \mu\text{g}/\text{m}^3$) for employees.

Currently, SCDHEC defines LBP as paint containing in excess of, or equal to, $1.0 \text{ mg}/\text{cm}^2$. The laboratory analytical results and chain-of-custody are included in the Lead Analysis Reports in Appendix II. The approximate locations of the paint samples collected and analytical results are presented in the *LBP Data Table* included with this report.

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

Exterior

- Tan wooden siding.
- White wooden windows and window frames.
- White wooden door frames.
- Tan wooden front porch ceiling and header/boards/framing.
- White wooden back porch siding, doors and door frames, ceiling, header boards/framing, walls and columns.

Interior

- White bead board walls and ceilings.
- White wooden doors and door frames.
- White wooden windows and window frames.
- White wooden fireplace mantle.

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.

This report summarizes our evaluation of the conditions observed at the site. The findings prepared by Apex are based upon testing performed in the building space. Additional ACM may exist (undetected) in other areas due to their inaccessibility or due to the limited nature of our testing. Our assessment procedures and recommendations are based on the guidelines presented in EPA, State of South Carolina or OSHA asbestos regulations.

Lead-Based Paint

Currently the South Carolina Department of Health and Environmental Control (SCDHEC) define LBP as paint containing greater than 1.0 milligram per square centimeter (mg/cm^2) lead or in excess of, or equal to, 0.5 percent lead. Building materials identified as being painted with LBP should be segregated from the other building materials and recycled or disposed of in a municipal lined landfill. The removed wastes would need to be containerized and further tested by Toxic Characteristic Leaching procedures (TCLP) to determine if the waste is classified as hazardous. The remaining building materials that are not painted with LBP may be disposed of in a construction and demolition landfill. However, the landfills should be contacted to determine their specific disposal requirements.

Occupational Safety and Health Administration Lead Regulations apply to actions initiated on lead containing materials. This regulation applies to lead concentrations greater than the analytical limit of detection. This regulation sets exposure levels on airborne lead and does not reference the percent lead in paint. Therefore, initial personal air monitoring should be conducted on workers performing work on surfaces which have a lead concentration of $0.1 \text{ mg}/\text{cm}^2$ or above to satisfy the OSHA requirements. If a baseline exposure lower than the OSHA Action Level of 30 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) is established, personal air monitoring may be terminated. The full OSHA lead standard should be referenced for compliance.

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

SECTION II

Asbestos & LBP Data Tables

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

Project Name: COS 30 Varner Street ACM/LBP

Sampled By: Tom Oliver

Project Location: 30 Varner Street, Spartanburg, SC 29306

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 8/17/2018

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
1	Roof	Roof shingles (2 layers) & no felt	PLM - NAD	Non-Friable	Good	1,500 SF
2						
3			TEM - NAD			
4	Wooden windows	Window glazing	PLM - NAD	Non-Friable	Good	6 EA
5						
6			TEM - NAD			
7	Wooden windows	Window caulk	PLM - NAD	Non-Friable	Good	6 EA
8						
9			TEM - NAD			
10	Throughout	12" x 12" ceiling tiles with no mastic	PLM - NAD	Non-Friable	Good	1,000 SF
11						
12						
13	Kitchen & bathroom threshold	12" x 12" wooden pattern self-stick floor tiles	PLM - NAD	Non-Friable	Good	215 SF
14						
15			TEM - NAD			
16	Bathroom	Tan small square pattern vinyl floor & mastic over tan large square pattern vinyl floor & mastic	PLM - NAD	Non-Friable	Good	25 SF
17						
18			TEM - <1% chry (top layer floor): NAD top & bottom layer mastic & bottom layer floor			

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

Project Name: COS 30 Varner Street ACM/LBP

Sampled By: Tom Oliver

Project Location: 30 Varner Street, Spartanburg, SC 29306

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 8/17/2018

Sample No.	Location	Sample Description	Analytical Results	Friable/Non Friable	Condition	Quantity
19	Bathroom ceiling	Drywall with joint compound & tape	PLM - NAD	Friable	Good	40 SF
20						
21						
Assumed	Roof/chimney	Mastic/tar on 1 chimney	Assumed	Non-Friable	Good	6 LF

NAD = No Asbestos Detected

LF = Linear Feet

EA = Each

Amos = Amosite

Bold = Positive For Asbestos

SF = Square Feet

Chry = Chrysotile

FIELD DATA SHEET LBP ANALYSIS

Project Name: COS 30 Varner Street ACM/LBP

Sampled By: Tom Oliver

Project Location: 30 Varner Street, Spartanburg, SC 29306

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 8/17/2018

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
135	Exterior	Siding	Tan	Wood	2.61
136	Exterior	Window	White	Wood	3.14
137	Exterior	Window frame	White	Wood	3.11
138	Exterior	Door	Brown	Wood	0.00
139	Exterior	Door frame	White	Wood	3.41
140	Exterior front porch	Ceiling	Tan	Wood	3.92
141	Exterior front porch	Headers/framing	Tan	Wood	3.32
142	Exterior front porch	Column	White	Wood	0.00
143	Exterior front porch	Handrail	White	Wood	0.00
144	Exterior front porch	Steps	Grey	Concrete	0.00
145	Exterior back porch	Foundation	Tan	Brick	0.15
146	Exterior back porch	Foundation	Tan	CMU Block	0.09
147	Exterior back porch	Siding	White	Wood	5.00
148	Exterior back porch	Door frame	White	Wood	5.00
149	Exterior back porch	Door	White	Wood	2.92
150	Exterior back porch	Ceiling	White	Wood	2.69
151	Exterior back porch	Headers/framing	White	Wood	4.33
152	Exterior back porch	Walls	White	Wood	2.93
153	Exterior back porch	Column	White	Wood	1.62
154	Interior	Walls	White	Bead board	2.10
155	Interior	Ceiling	White	Bead board	2.80
156	Interior	Door	White	Wood	1.98
157	Interior	Door frame	White	Wood	1.67
158	Interior	Window	White	Wood	2.23

**FIELD DATA SHEET
LBP ANALYSIS**

Project Name: COS 30 Varner Street ACM/LBP

Sampled By: Tom Oliver

Project Location: 30 Varner Street, Spartanburg, SC 29306

Project Manager: Tom Oliver

Project Number: 0118-14

Date: 8/17/2018

Sample No.	Sample Location	Component	Color	Substrate	Analytical Result (mg/m ³)
159	Interior	Window frame	White	Wood	2.20
160	Interior	Fireplace mantle	White	Wood	5.00
161	Interior	Wall panel	Brown	Wood	0.01
162	Calibration				1.19
163	Calibration				1.05
164	Calibration				1.16

Bold = LBP

SECTION III

Laboratory Analytical Results

August 27, 2018

Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

CLIENT PROJECT: COS 30 Varner St.; COS 0118-14
CEI LAB CODE: A189268

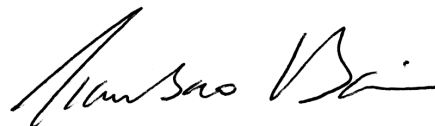
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on August 20, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

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

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

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 30 Varner St.; COS 0118-14

LAB CODE: A189268

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

REPORT DATE: 08/27/18

TOTAL SAMPLES ANALYZED: 16

SAMPLES >1% ASBESTOS:



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 30 Varner St.; COS 0118-14

LAB CODE: A189268

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1		A84935	Black,Green	Roof Shingle	None Detected
2		A84936	Black,Green	Roof Shingle	None Detected
3		A84937		Sample Submitted for TEM Analysis	
4		A84938	Off-white,Gray	Window Glazing	None Detected
5		A84939	Off-white,Gray	Window Glazing	None Detected
6		A84940		Sample Submitted for TEM Analysis	
7		A84941	Off-white,Gray	Window Caulking	None Detected
8		A84942	Off-white,Gray	Window Caulking	None Detected
9		A84943		Sample Submitted for TEM Analysis	
10		A84944	Gray,Off-white	Ceiling Tile	None Detected
11		A84945	Gray,Off-white	Ceiling Tile	None Detected
12		A84946	Gray,Off-white	Ceiling Tile	None Detected
13		A84947A	Brown,Gray	Floor Tile	None Detected
		A84947B	Clear	Mastic	None Detected
14		A84948A	Brown,Gray	Floor Tile	None Detected
		A84948B	Clear	Mastic	None Detected
15		A84949		Sample Submitted for TEM Analysis	
16	Layer 1	A84950A	Tan,Gray	Vinyl Flooring (type 1)	None Detected
	Layer 2	A84950A	Tan	Mastic	None Detected
	Layer 1	A84950B	Tan,Gray	Vinyl Flooring (type 2)	None Detected
	Layer 2	A84950B	Tan	Mastic	None Detected
17	Layer 1	A84951A	Tan,Gray	Vinyl Flooring (type 1)	None Detected
	Layer 2	A84951A	Tan	Mastic	None Detected
	Layer 1	A84951B	Tan,Gray	Vinyl Flooring (type 2)	None Detected
	Layer 2	A84951B	Tan	Mastic	None Detected
18		A84952		Sample Submitted for TEM Analysis	
19	Layer 1	A84953	Gray,Tan	Drywall	None Detected



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: COS 30 Varner St.; COS 0118-14

LAB CODE: A189268

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 2	A84953	Off-white	Joint Compound	None Detected
	Layer 3	A84953	Tan	Tape	None Detected
20	Layer 1	A84954	Gray,Tan	Drywall	None Detected
	Layer 2	A84954	Off-white	Joint Compound	None Detected
	Layer 3	A84954	Tan	Tape	None Detected
21	Layer 1	A84955	Gray,Tan	Drywall	None Detected
	Layer 2	A84955	Off-white	Joint Compound	None Detected
	Layer 3	A84955	Tan	Tape	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

Lab Code: A189268
Date Received: 08-20-18
Date Analyzed: 08-27-18
Date Reported: 08-27-18

Project: COS 30 Varner St.; COS 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Cellulose	Non-Fibrous		
1 A84935	Roof Shingle	Heterogeneous	<1%	Cellulose	30%	Tar	None Detected
		Black,Green	25%	Fiberglass	40%	Gravel	
		Fibrous			5%	Silicates	
Lab Notes: No felt present.							
2 A84936	Roof Shingle	Heterogeneous	<1%	Cellulose	30%	Tar	None Detected
		Black,Green	25%	Fiberglass	40%	Gravel	
		Fibrous			5%	Silicates	
Lab Notes: No felt present.							
3 A84937	Sample Submitted for TEM Analysis						
4 A84938	Window Glazing	Heterogeneous	<1%	Cellulose	85%	Caulk	None Detected
		Off-white,Gray			10%	Binder	
		Fibrous			5%	Paint	
Bound							
5 A84939	Window Glazing	Heterogeneous	<1%	Cellulose	85%	Caulk	None Detected
		Off-white,Gray			10%	Binder	
		Fibrous			5%	Paint	
Bound							
6 A84940	Sample Submitted for TEM Analysis						
7 A84941	Window Caulking	Heterogeneous	<1%	Cellulose	85%	Caulk	None Detected
		Off-white,Gray			10%	Binder	
		Fibrous			5%	Paint	
Bound							
8 A84942	Window Caulking	Heterogeneous	<1%	Cellulose	85%	Caulk	None Detected
		Off-white,Gray			10%	Binder	
		Fibrous			5%	Paint	
Bound							

ASBESTOS BULK ANALYSIS

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 7 Winchester Court
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Project: COS 30 Varner St.; COS 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
9 A84943	Sample Submitted for TEM Analysis						
10 A84944	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Bound	35% 25%	Cellulose Fiberglass	15% 5% 20%	Binder Paint Perlite	None Detected
11 A84945	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Bound	35% 25%	Cellulose Fiberglass	15% 5% 20%	Binder Paint Perlite	None Detected
12 A84946	Ceiling Tile	Heterogeneous Gray,Off-white Fibrous Bound	35% 25%	Cellulose Fiberglass	15% 5% 20%	Binder Paint Perlite	None Detected
13 A84947A	Floor Tile	Heterogeneous Brown,Gray Fibrous Tightly Bound	<1%	Cellulose	95% 5%	Vinyl Calc Carb	None Detected
A84947B	Mastic	Heterogeneous Clear Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
14 A84948A	Floor Tile	Heterogeneous Brown,Gray Fibrous Tightly Bound	<1%	Cellulose	95% 5%	Vinyl Calc Carb	None Detected
A84948B	Mastic	Heterogeneous Clear Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

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Project: COS 30 Varner St.; COS 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
15 A84949	Sample Submitted for TEM Analysis						
16 Layer 1 A84950A	Vinyl Flooring (type 1)	Heterogeneous Tan,Gray Fibrous Bound	15% 10%	Cellulose Fiberglass	50% 25%	Vinyl Binder	None Detected
Layer 2 A84950A	Mastic	Heterogeneous Tan Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 1 A84950B	Vinyl Flooring (type 2)	Heterogeneous Tan,Gray Fibrous Bound	15% 10%	Cellulose Fiberglass	50% 25%	Vinyl Binder	None Detected
Layer 2 A84950B	Mastic	Heterogeneous Tan Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
17 Layer 1 A84951A	Vinyl Flooring (type 1)	Heterogeneous Tan,Gray Fibrous Bound	15% 10%	Cellulose Fiberglass	50% 25%	Vinyl Binder	None Detected
Layer 2 A84951A	Mastic	Heterogeneous Tan Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
Layer 1 A84951B	Vinyl Flooring (type 2)	Heterogeneous Tan,Gray Fibrous Bound	15% 10%	Cellulose Fiberglass	50% 25%	Vinyl Binder	None Detected

ASBESTOS BULK ANALYSIS

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Project: COS 30 Varner St.; COS 0118-14

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 A84951B	Mastic	Heterogeneous Tan Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
18 A84952	Sample Submitted for TEM Analysis						
Layer 1 A84953	Drywall	Heterogeneous Gray,Tan Fibrous Bound	25%	Cellulose	65%	Gypsum 10% Binder	None Detected
Layer 2 A84953	Joint Compound	Heterogeneous Off-white Fibrous Bound	<1%	Cellulose	85%	Calc Carb 15% Binder	None Detected
Layer 3 A84953	Tape	Heterogeneous Tan Fibrous Bound	85%	Cellulose	15%	Binder	None Detected
Layer 1 A84954	Drywall	Heterogeneous Gray,Tan Fibrous Bound	25%	Cellulose	65%	Gypsum 10% Binder	None Detected
Layer 2 A84954	Joint Compound	Heterogeneous Off-white Fibrous Bound	<1%	Cellulose	85%	Calc Carb 15% Binder	None Detected
Layer 3 A84954	Tape	Heterogeneous Tan Fibrous Bound	85%	Cellulose	15%	Binder	None Detected

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
21 Layer 1 A84955	Drywall	Heterogeneous	25%	Cellulose	65%	Gypsum	None Detected
		Gray, Tan			10%	Binder	
		Fibrous Bound					
Layer 2 A84955	Joint Compound	Heterogeneous	<1%	Cellulose	85%	Calc Carb	None Detected
		Off-white			15%	Binder	
		Fibrous Bound					
Layer 3 A84955	Tape	Heterogeneous	85%	Cellulose	15%	Binder	None Detected
		Tan					
		Fibrous Bound					

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

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

REPORTING LIMIT: <1% by visual estimation

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

REGULATORY LIMIT: >1% by weight

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

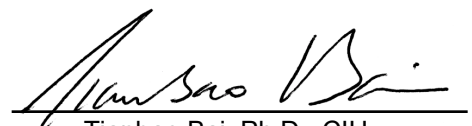
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation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

ANALYST: _____



Scott Minyard

APPROVED BY: _____



Tianbao Bai, Ph.D., CIH
Laboratory Director



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

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:	
CEI Lab Code:	A189208 (21)
CEI Lab I.D. Range:	A84935-A84955

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Tom Oliver
Company: Apex Environmental Management, Inc.	Email / Tel: tolover@apex-ehs.com
Address: 7 Winchester Ct.	Project Name: COS 30 Varner St
Mauldin, South Carolina 29662	Project ID#: COS 0118-14
Email:	PO #:
Tel: (864) 404-3210 Fax:	STATE SAMPLES COLLECTED IN: SC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

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

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
<i>Joshua Muller</i>	8-17-18 3:20pm	<i>CO</i>	8/20 @ 10:00

Samples will be disposed of 30 days after analysis

Page 1 of 2

A189208

ASBESTOS SAMPLING FORM



COMPANY CONTACT INFORMATION	
Company: <u>APEX Env. Mgt</u>	Job Contact: <u>Tom Oliver</u>
Project Name: <u>COS 30 Varner St.</u>	
Project ID #: <u>COS 0118-14</u>	Tel: _____

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
1	Roof / 1 shingle		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
2	1 felt		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
3	↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
4	Windows / glaze		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
5	↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
6	↓ caulk		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
7	Windows / glaze		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
8	↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
9	↓		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
10	ceiling / 12x12		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
11	ceiling tile		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
12	↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
13	Kitchen + bathroom Threshold /		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
14	12x12 wood pattern		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
15	self-stick flr. tile		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
16	Bathroom / tan small square flr		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
17	w/mastic + tan large square patt.		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
18	vinyl flr		PLM	<input type="checkbox"/>	TEM	<input checked="" type="checkbox"/>
19	Bathroom ceiling /		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
20	drywall, JC + tape		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
21	↓		PLM	<input checked="" type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>
			PLM	<input type="checkbox"/>	TEM	<input type="checkbox"/>

September 4, 2018

Apex Environmental Management
7 Winchester Court
Mauldin, SC 29662

CLIENT PROJECT: COS 30 Varner St; COS 0118-14
LAB CODE: T181979

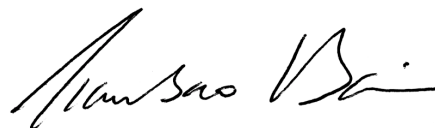
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on August 27, 2018. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield Method.

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

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

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director



CEI

ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Apex Environmental Management

CLIENT PROJECT: COS 30 Varner St; COS 0118-14

LAB CODE: T181979

TEST METHOD: Bulk Chatfield
EPA 600 / R93 / 116

REPORT DATE: 09/04/18



CEI

ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

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

Lab Code: T181979
Date Received: 08-27-18
Date Analyzed: 09-04-18
Date Reported: 09-04-18

Project: COS 30 Varner St; COS 0118-14

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
3 T83638	Black, Green Roof Shingle	0.341	31.7	54	14.3	None Detected
6 T83639	Off-white, Gray Window Glazing	0.387	10.1	79.6	10.3	None Detected
9 T83640	Off-white, Gray Window Caulking	0.331	25.7	64	10.3	None Detected
15 T83641	Brown, Gray Floor Tile	0.591	17.9	79.9	2.2	None Detected
15 T83642	Clear Mastic	0.116	52.6	44.8	2.6	None Detected
18 T83643	Tan, Gray Vinyl Flooring (type 1)	0.252	65.9	19.8	14.3	<1% Chrysotile
18 T83644	Tan Mastic	0.198	40.9	20.2	38.9	None Detected
18 T83645	Tan, Gray Vinyl Flooring (type 2)	0.307	67.1	17.3	15.6	None Detected
18 T83646	Tan Mastic	0.227	19.8	40.5	39.7	None Detected

LEGEND: None

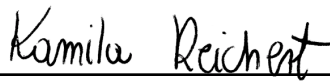
METHOD: CHATFIELD & EPA/600/R-93/116

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

REGULATORY LIMIT: >1% by weight

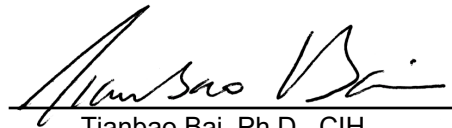
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ANALYST:



Kamila Reichert

APPROVED BY:



Tianbao Bai, Ph.D., CIH
Laboratory Director



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

781979
 T82638
 646

(a)

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:
 CEI Lab Code: A189268 (21)
 CEI Lab I.D. Range: A89935-A89955

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: <u>Tom Oliver</u>
Company: <u>Apex Environmental Management, Inc.</u>	Email / Tel: <u>toliver@apex-ehs.com</u>
Address: <u>7 Winchester Ct.</u> <u>Mauldin, South Carolina 29662</u>	Project Name: <u>COS 30 Varner St</u>
Email:	Project ID#: <u>COS 0118-14</u>
Tel: (864) 404-3210 Fax:	PO #:
	STATE SAMPLES COLLECTED IN: <u>SC</u>

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

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

REMARKS / SPECIAL INSTRUCTIONS:

Accept Samples
 Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>8-17-18 3:20pm</u>	<u>CO</u>	<u>8/20 @ 10:00</u>
	<u>8-22-18 10:25 AM</u>		

Samples will be disposed of 30 days after analysis



781979

ASBESTOS SAMPLING FORM

A1892U8

COMPANY CONTACT INFORMATION	
Company: <i>APEX Env. mgmt</i>	Job Contact: <i>Tom Oliver</i>
Project Name: <i>COS 30 Varner St.</i>	
Project ID #: <i>COS 0118-14</i>	Tel:

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
			PLM	TEM
1	Roof / 1 shingle		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1 felt		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	↓		<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	windows / glaze		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	↓		<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	windows / glaze caulk		<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	↓		<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	ceiling / 12x12		<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	ceiling tile		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Kitchen + bathroom Threshold /		<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	12x12 wood pattern		<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	self-stick flr. tile		<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Bathroom / tan small square flr		<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	ultrastick + tan large square patt.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	vinyl flr		<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Bathroom ceiling /		<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	drywall, JC + tape		<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

SECTION IV
Photographic Log



Photo 1 – 30 Varner Street in Spartanburg, South Carolina



Photo 2 – Roof shingles & no felt



Photo 3 – 1 chimney wit mastic/tar – assumed positive



Photo 4 – Wooden windows with glazing & caulk



Photo 5 – 12" x 12" ceiling tiles with no mastic throughout



Photo 6 – 12" x 12" wooden pattern self-stick floor tiles in the kitchen & bathroom threshold

Asbestos & Lead Assessment
City of Spartanburg
30 Varner Street
Spartanburg, South Carolina 29306



Photo 7 – Drywall with joint compound & tape in the bathroom ceiling

SECTION V

SC DHEC Asbestos Inspector License

SCDHEC ISSUED
Asbestos ID Card

Thomas H Oliver



CONSULTBI BI-00680
AIRSAMPLER AS-00202

Expiration Date:
01/18/19
04/04/19

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

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

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