



AHERA/NESHAP ASBESTOS INSPECTION REPORT
1126 CASTLE STREET
ROCK HILL, SC

CLIENT:

City of Rock Hill
P.O. Box 11706
Rock Hill, SC 29731

LOCATION:

1126 Castle Street
Rock Hill, SC 29730

DATE OF INSPECTION:

September 27, 2016

DATE OF REPORT:

October 6, 2016

PREPARED BY:

Ashton B. Brown
Environmental Staff Professional

SUMMIT ELT, Inc. (SUMMIT)
3575 Centre Circle
Fort Mill, South Carolina 29715
704-504-1717

SUMMIT Job No. 1080.115

AHERA/NESHAP ASBESTOS INSPECTION REPORT

1126 CASTLE STREET, ROCK HILL, SC 29732

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1.0 REPORT CERTIFICATION

SUMMIT ELT, Inc. (SUMMIT) is pleased to provide environmental consulting services for the City of Rock Hill. Please contact this office at 704-504-1717 with any questions or comments regarding the findings submitted in this report.

This document, entitled *AHERA/NESHAP Asbestos Inspection Report*, was prepared for the City of Rock Hill and the South Carolina Department of Health and Environmental Control (SCDHEC) with sound practices and procedures and in accordance with Asbestos Hazard Emergency Response Act (AHERA), Title II of the Toxic Substance Control Act (TSCA), SCDHEC Regulation 61-86.1, 40 CFR 61, and 40 CFR 763 for Asbestos Containing Materials (ACM) guidance. The results obtained by the work documented in this report fulfill the requirements of federal, state, and local regulations regarding Asbestos Containing Materials.



10/6/2016

Richard Wyche

Date

SC DHEC AHERA Asbestos Building Inspector No. BI-01478
Expiration Date: November 3, 2016

2.0 EXECUTIVE SUMMARY

On September 27, 2016, **SUMMIT** performed an AHERA/NESHAP Asbestos Inspection for one (1) structure at 1126 Castle Street in Rock Hill, South Carolina.

The purpose of this inspection was to investigate available records for the specification of asbestos containing material (ACM), inspect for suspect materials, sample and analyze suspect materials to test for asbestos, and assess the condition and location of the ACM and other characteristics of the structures.

No records were available for review to determine the date the structure was built or the type of materials used during the construction.

A homogeneous material is a material that appears to be uniform when properties such as age, color, and texture are compared. There were fourteen (14) homogeneous suspect materials observed on the structure. The homogeneous areas are described in detail in section 3.0 of this report.

BEIGE SQUARE FL-1 and BEIGE SQUARE FL-3

The beige square patterned flooring and mastic (multiple layers) located in the hallway is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and under layer of beige and pink flooring is classified as Asbestos Containing Material (ACM). The under layer of beige and pink flooring material contains up to 8% Chrysotile and there is approximately 400 sq. ft. of the material. The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.0 SUSPECT MATERIALS

3.1 Window Glazing

WG-1 through WG-3

The window glazing located on the window is currently in damaged condition and friable with a potential for disturbance. The material is classified as miscellaneous material. The window glazing was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.2 Brick and Mortar

B+M-1 through B+M-3

The brick and mortar located on the exterior walls is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The brick and mortar was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.3 Block and Mortar

BLK+M-1 through BLK+M-3

The block and mortar located on the exterior walls is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The block and mortar was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.4 Siding

SIDE-1 through SIDE-3

The siding and felt located on the exterior walls is currently in damaged condition and friable with a potential for disturbance. The material is classified as miscellaneous material. The siding and felt was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.5 Roofing

ROOF-1 through ROOF-3

The roofing shingles and felt material located on the roof is currently in damaged condition and non-friable with a low potential for disturbance. The material is classified as miscellaneous material. The roofing shingles and felt were sampled and are not classified as Asbestos

Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.6 Drywall and Joint Compound

DW-1 through DW-5

The drywall and joint compound located on the interior walls and ceilings is currently in damaged condition and friable with a potential for disturbance. The material is classified as surfacing material. The drywall and joint compound were sampled and are not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.7 Ceiling Texture

C-TEX-1 through C-TEX-3

The ceiling texture located on the interior ceilings is currently in significantly damaged condition and friable with a potential for disturbance. The material is classified as surfacing material. The ceiling texture were sampled and are not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

3.8 Flooring

TAN SQUARE FL-1 through TAN SQAURE FL-3

The tan square flooring and mastic located in the master bathroom is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

BEIGE W/ BLUE FL-1 through BEIGE W/ BLUE FL-3

The beige with blue print flooring and mastic (multiple layers) located in both bedrooms is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

BEIGE SQUARE FL-1 and BEIGE SQUARE FL-3

The beige square patterned flooring and mastic (multiple layers) located in the hallway is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and under layer of beige and pink flooring is classified as Asbestos Containing Material (ACM). The under layer of beige and pink flooring material contains up to 8% Chrysotile and there is

approximately 400 sq. ft. of the material. The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

WOODGRAIN FL-1 through WOODGRAIN FL-3

The woodgrain sheet flooring and mastic located in the living room is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

GRAY SWIRL FL-1 through GRAY SWIRL FL-3

The gray swirl flooring and mastic (multiple layers) located in the dining room and living room is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

BLUE FLORAL FL-1 through BLUE FLORAL FL-3

The blue floral flooring and mastic (multiple layers) located in the kitchen is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

BEIGE W/ PINK FL-1 through BEIGE W/ PINK FL-3

The beige with pink flooring and mastic located in the entryway is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and is not classified as Asbestos Containing Material (ACM). The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

4.0 SUSPECT MATERIAL QUANTITIES

Summary of Suspect Material Quantities:

SUSPECT MATERIAL	ACM? ¹ (Y/N)	APPROXIMATE QUANTITY ²
Window Glazing	N	16 Windows
Brick and Mortar	N	800 SF
Block and Mortar	N	500 SF
Siding	N	900 SF
Roofing	N	800 SF
Drywall and Joint Compound	N	4,000 SF
Ceiling Texture	N	625 SF
Tan Square Flooring and Mastic	N	200 SF
Beige w/ Blue Flooring and Mastic (multiple layers)	N	400 SF
Beige Square Patterned Flooring and Mastic (multiple layers)	Y	400 SF
Woodgrain Sheet Flooring and Mastic	N	150 SF
Gray Swirl Flooring and Mastic (multiple layers)	N	100 SF
Blue Floral Flooring and Mastic (multiple layers)	N	150 SF
Beige w/ Pink Flooring and Mastic	N	100 SF

Quantities: SF = Square Feet LF = Linear Feet CF = Cubic Feet

Note 1: ACM = Material containing asbestos of any type, in an amount greater than 1%

Note 2: All quantities are estimated and should not be used for bidding purposes

5.0 CONCLUSION AND RECOMMENDATIONS

On September 27, 2016, SUMMIT performed an AHERA/NESHAP Asbestos Inspection for one (1) structure at 1126 Castle Street in Rock Hill, South Carolina.

BEIGE SQUARE FL-1 and BEIGE SQUARE FL-3

The beige square patterned flooring and mastic (multiple layers) located in the hallway is currently in damaged condition and non-friable with a potential for disturbance. The material is classified as miscellaneous material. The flooring and mastic was sampled and under layer of beige and pink flooring is classified as Asbestos Containing Material (ACM). The under layer of beige and pink flooring material contains up to 8% Chrysotile and there is approximately 400 sq. ft. of the material. The sample analysis is enclosed in Appendix A. A detailed map showing the sampling locations can be found in SUMMIT Documentation.

If the structure is to be renovated or demolished, a copy of this report and a notification of demolition or renovation forms must be submitted to The South Carolina Department of Health and Environmental Control (SCDHEC) at least ten working days prior to these activities taking place.

Bidders are responsible for their own calculations and estimates of quantities. Actual quantities may be more or less than indicated. Though every effort was made to examine wall cavities and other areas for pipe insulation, spray-applied or trowel applied surfacing material or other miscellaneous materials and other Presumed Asbestos Containing Material (PACM), this survey and report only deals with accessible areas of the building. There may be additional inaccessible areas above ceiling, behind walls and below floors that become evident during demolition or renovation activities. If suspect materials are found, additional asbestos testing may be required.

FIGURES

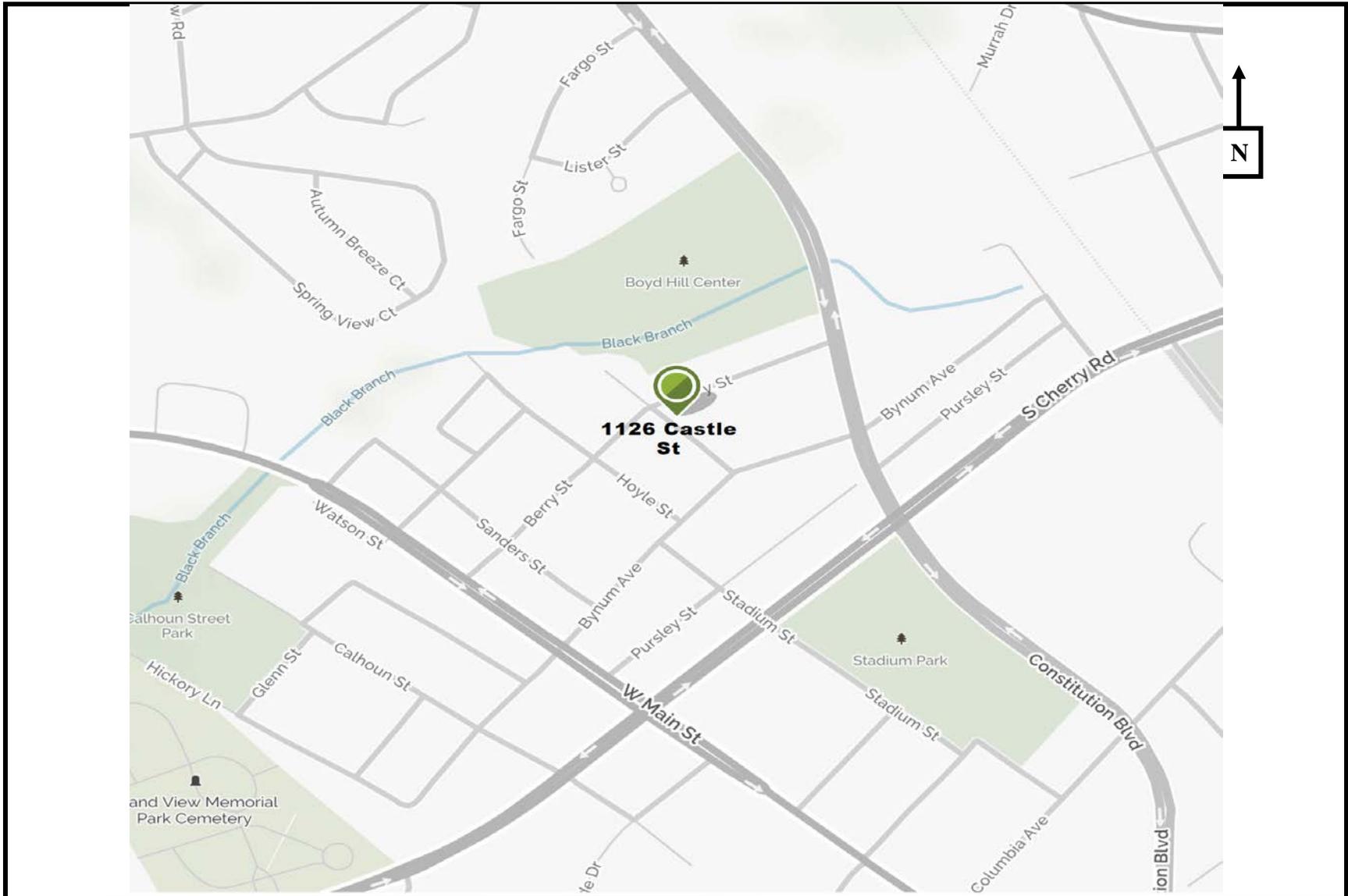


Figure 1
Site Location Map

1126 Castle Street
Rock Hill, South Carolina



SUMMIT ELT, Inc.

Project: 1080.115

APPENDIX A

ANALYTICAL RESULTS



Asbestos Laboratory Report

Prepared for

Summit ELT, Inc.

Project: 1126 Castle St.

Summit #: 2016-9-28-1080.115

Date Analyzed: 9/29/2016

Date Reported: 9/29/2016

Total Samples Analyzed: 77

Samples >1% Asbestos: 1

Method of Analysis: EPA 600 / R93 / 116



Summit Laboratories

3575 Centre Circle, Fort Mill, SC 29715
 Phone: (704) 504-1717

Summit Order: 2016-9-28-1080.115

Summit ELT, Inc.
3575 Centre Circle
Fort Mill, SC 29715

Date Received: 9/28/2016

Date Analyzed: 9/29/2016

Date Reported: 9/29/2016

Project : 1126 Castle St.

Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Asbestos
WG-1 2016-9-28-1080.115-1	Window Glazing	Tan Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
WG-2 2016-9-28-1080.115-2	Window Glazing	Tan,White Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
B&M-1-Brick 2016-9-28-1080.115-3	Brick & Mortar	Red Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B&M-1-Mortar 2016-9-28-1080.115-3A	Brick & Mortar	Gray Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
B&M-2-Brick 2016-9-28-1080.115-4	Brick & Mortar	Red Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B&M-2-Mortar 2016-9-28-1080.115-4A	Brick & Mortar	Gray Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
B&M-3-Brick 2016-9-28-1080.115-5	Brick & Mortar	Red Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B&M-3-Mortar 2016-9-28-1080.115-5A	Brick & Mortar	Gray Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blk&M-1-Block 2016-9-28-1080.115-6	Block & Mortar	Gray Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blk&M-1-Mortar 2016-9-28-1080.115-6A	Block & Mortar	Beige Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blk&M-2-Block 2016-9-28-1080.115-7	Block & Mortar	Gray Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blk&M-2-Mortar 2016-9-28-1080.115-7A	Block & Mortar	Beige Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blk&M-3-Block 2016-9-28-1080.115-8	Block & Mortar	Gray Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blk&M-3-Mortar 2016-9-28-1080.115-8A	Block & Mortar	Beige Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected



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Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Asbestos
Side-1-Siding 2016-9-28-1080.115-9	Siding & Felt	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
Side-1-Silver Paint 2016-9-28-1080.115-9A	Siding & Felt	Silver Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Side-2-Siding 2016-9-28-1080.115-10	Siding & Felt	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
Side-2-Silver Paint 2016-9-28-1080.115-10A	Siding & Felt	Silver Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Roof-1-Shingle 2016-9-28-1080.115-11	Shingles & Felt	Gray,Green Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
Roof-1-Felt 2016-9-28-1080.115-11A	Shingles & Felt	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
Roof-2-Shingle 2016-9-28-1080.115-12	Shingles & Felt	Gray,Green Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
Roof-2-Felt 2016-9-28-1080.115-12A	Shingles & Felt	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
DW-1-Drywall 2016-9-28-1080.115-13	Drywall & Joint Compound	Beige Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
DW-1-Joint Compound 2016-9-28-1080.115-13A	Drywall & Joint Compound	White Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DW-2-Drywall 2016-9-28-1080.115-14	Drywall & Joint Compound	Beige Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
DW-2-Joint Compound 2016-9-28-1080.115-14A	Drywall & Joint Compound	White Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
DW-3-Drywall 2016-9-28-1080.115-15	Drywall & Joint Compound	Beige Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	None Detected
DW-3-Joint Compound 2016-9-28-1080.115-15A	Drywall & Joint Compound	White Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected



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Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Asbestos
DW-3-Tape 2016-9-28-1080.115-15B	Drywall & Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected
DW-4-Drywall 2016-9-28-1080.115-16	Drywall & Joint Compound	Gray,Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
DW-4-Joint Compound 2016-9-28-1080.115-16A	Drywall & Joint Compound	Beige Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
DW-4-Tape 2016-9-28-1080.115-16B	Drywall & Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected
DW-5-Drywall 2016-9-28-1080.115-17	Drywall & Joint Compound	Gray,Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
DW-5-Joint Compound 2016-9-28-1080.115-17A	Drywall & Joint Compound	Beige Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
DW-5-Tape 2016-9-28-1080.115-17B	Drywall & Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected
C Tex-1 2016-9-28-1080.115-18	Ceiling Texture	Beige Fibrous Homogeneous	<1% Cellulose	99% Non-fibrous (other)	<1% Chrysotile
C Tex-2 2016-9-28-1080.115-19	Ceiling Texture	Beige Fibrous Homogeneous	<1% Cellulose	99% Non-fibrous (other)	<1% Chrysotile
C Tex-3 2016-9-28-1080.115-20	Ceiling Texture	Beige Fibrous Homogeneous	<1% Cellulose	99% Non-fibrous (other)	<1% Chrysotile
Tan Square FL-1-Flooring 2016-9-28-1080.115-21	Sheet Floor- Tan Square Pat.	Tan Fibrous Homogeneous	8% Cellulose 1% Glass	91% Non-fibrous (other)	None Detected
Tan Square FL-1-Mastic 2016-9-28-1080.115-21A	Sheet Floor- Tan Square Pat.	Beige Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Tan Square FL-2-Flooring 2016-9-28-1080.115-22	Sheet Floor- Tan Square Pat.	Tan Fibrous Homogeneous	8% Cellulose 1% Glass	91% Non-fibrous (other)	None Detected
Tan Square FL-2-Mastic 2016-9-28-1080.115-22A	Sheet Floor- Tan Square Pat.	Beige Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected



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Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Asbestos
Beige w/Blue FL-1-Beige/Blue Flooring	Sheet Floor-Beige w/Blue	Beige,Blue Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
2016-9-28-1080.115-23					
Beige w/Blue FL-1-Beige/Gray Flooring	Sheet Floor-Beige w/Blue	Beige,Gray Fibrous Homogeneous	10% Cellulose 1% Glass	89% Non-fibrous (other)	None Detected
2016-9-28-1080.115-23A					
Beige w/Blue FL-1-Mastic	Sheet Floor-Beige w/Blue	Brown Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2016-9-28-1080.115-23B					
Beige w/Blue FL-2-Beige/Blue Flooring	Sheet Floor-Beige w/Blue	Beige,Blue Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
2016-9-28-1080.115-24					
Beige w/Blue FL-2-Beige/Gray Flooring	Sheet Floor-Beige w/Blue	Beige,Gray Fibrous Homogeneous	10% Cellulose 1% Glass	89% Non-fibrous (other)	None Detected
2016-9-28-1080.115-24A					
Beige w/Blue FL-2-Mastic	Sheet Floor-Beige w/Blue	Brown Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2016-9-28-1080.115-24B					
Beige Square FL-1-Beige Flooring	Sheet Floor- Beige Sq. Pat.	Beige,Gray Fibrous Homogeneous	10% Cellulose 1% Glass	89% Non-fibrous (other)	None Detected
2016-9-28-1080.115-25					
Beige Square FL-1-Tan Flooring	Sheet Floor- Beige Sq. Pat.	Tan Fibrous Homogeneous	8% Cellulose 2% Glass	90% Non-fibrous (other)	None Detected
2016-9-28-1080.115-25A					
Beige Square FL-1-Mastic	Sheet Floor- Beige Sq. Pat.	Brown Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2016-9-28-1080.115-25B					
Beige Square FL-1-Beige/Tan Flooring	Sheet Floor- Beige Sq. Pat.	Beige,Pink Fibrous Homogeneous	2% Cellulose	90% Non-fibrous (other)	8% Chrysotile
2016-9-28-1080.115-25C					
Beige Square FL-1-Mastic	Sheet Floor- Beige Sq. Pat.	Tan Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
2016-9-28-1080.115-25D					
Beige Square FL-2	Sheet Floor- Beige Sq. Pat.				Positive Stop (not analyzed)
2016-9-28-1080.115-26					



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Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Asbestos
Beige Square FL-3 2016-9-28-1080.115-27	Sheet Floor- Beige Sq. Pat.				Positive Stop (not analyzed)
Woodgrain FL-1 2016-9-28-1080.115-28	Sheet Floor- Woodgrain	Brown Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Woodgrain FL-2 2016-9-28-1080.115-29	Sheet Floor- Woodgrain	Brown Non-fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Gray Swirl FL-1-Gray Flooring 2016-9-28-1080.115-30	Sheet Floor- Gray Swirl	Gray Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (other)	None Detected
Gray Swirl FL-1-Brown Flooring 2016-9-28-1080.115-30A	Sheet Floor- Gray Swirl	Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
Gray Swirl FL-2-Gray Flooring 2016-9-28-1080.115-31	Sheet Floor- Gray Swirl	Gray Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (other)	None Detected
Gray Swirl FL-2-Brown Flooring 2016-9-28-1080.115-31A	Sheet Floor- Gray Swirl	Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
Blue Floral FL-1-White Flooring 2016-9-28-1080.115-32	Sheet Floral- Blue Floral	White,Blue Fibrous Homogeneous	8% Cellulose 1% Glass	91% Non-fibrous (other)	None Detected
Blue Floral FL-1-Mastic 2016-9-28-1080.115-32A	Sheet Floral- Blue Floral	Tan Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
Blue Floral FL-1-Tan Flooring 2016-9-28-1080.115-32B	Sheet Floral- Blue Floral	Tan Fibrous Homogeneous	8% Cellulose 2% Synthetic 1% Glass	89% Non-fibrous (other)	None Detected
Blue Floral FL-2-White Flooring 2016-9-28-1080.115-33	Sheet Floral- Blue Floral	White,Blue Fibrous Homogeneous	8% Cellulose 1% Glass	91% Non-fibrous (other)	None Detected
Blue Floral FL-2-Mastic 2016-9-28-1080.115-33A	Sheet Floral- Blue Floral	Tan Non-fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected



Summit Laboratories

3575 Centre Circle, Fort Mill, SC 29715
 Phone: (704) 504-1717

Summit Order: 2016-9-28-1080.115

Summit ELT, Inc.
3575 Centre Circle
Fort Mill, SC 29715

Date Received: 9/28/2016
 Date Analyzed: 9/29/2016
 Date Reported: 9/29/2016

Project : 1126 Castle St.

Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample ID	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Asbestos
Blue Floral FL-2-Tan Flooring	Sheet Floral- Blue Floral	Tan Fibrous Homogeneous	8% Cellulose 2% Synthetic 1% Glass	89% Non-fibrous (other)	None Detected
2016-9-28-1080.115-33B					
Beige w/Pink FL-1	Sheet Floor- Beige w/Pink	Beige Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
2016-9-28-1080.115-34					
Beige w/Pink FL-2	Sheet Floor- Beige w/Pink	Beige Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
2016-9-28-1080.115-35					



METHOD: EPA 600 / R93 / 116

For samples easily separated into homogeneous layers, each component will be analyzed separately. The sample may not be representative of the larger material in question. Interpretation and use of test results are the responsibility of the client. Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles, mastic and roofing can be difficult to analyze by PLM. Reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or None Detect for these materials is recommended.

This sheet may not be reproduced except with permission from Summit Laboratories. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Analyst(s): 
Chris Estes

Approved By: 
Michael Zavislak,
Approved Signatory

NVLAP Lab Code 600041-0

Summit Laboratories, 3575 Centre Circle, Fort Mill, SC 29715, Phone: (704) 504-1717



CHAIN OF CUSTODY

LAB USE ONLY:

Summit Order Number: 201109-28-1080.115

3575 Centre Circle, Fort Mill, SC 29715
 Tel: 704-504-1717; Fax: 704-504-1125

COMPANY CONTACT INFORMATION	
Company: Summit	Client #:
Address:	Job Contact:
	Email:
	Tel:
Project Name: 1126 Castle St.	Fax:
Project ID #: 1080.115	P.O. #:

ASBESTOS	METHOD	TURN AROUND TIME						
		4 HR	8 HR	12 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>						
PCM AIR	NIOSH 7400	<input type="checkbox"/>						
POSITIVE STOP	<input type="checkbox"/> ANALYSIS:							

COMMENTS:		<input checked="" type="checkbox"/>	Accept Samples
		<input type="checkbox"/>	Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time
<i>Richard M. Wyche</i>	<i>9/28/2016</i>	<i>M. Cao</i>	<i>9-28-16</i>

Samples will be disposed of 60 days after analysis



SAMPLING FORM

LAB USE ONLY:
Summit Order Number:

COMPANY CONTACT INFORMATION	
Company: Summit	Job Contact:
Project Name: 1126 Castle St.	
Project ID #: 1080.115	Tel:

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/AREA	DATE/TIME SAMPLED
WG-01	Window glazing	14 Windows	9/27/2016
WG-02	"	"	9/27/2016
B&M-01	Brick and mortar	420 sq. ft.	9/27/2016
B&M-02	"	"	9/27/2016
B&M-03	"	"	9/27/2016
BLK&M-01	Block and mortar	"	9/27/2016
BLK&M-02	"	"	9/27/2016
BLK&M-03	"	"	9/27/2016
SIDE-01	Siding and felt	1060 sq. ft.	9/27/2016
SIDE-02	"	"	9/27/2016
ROOF-01	Shingles and felt	1150 sq. ft.	9/27/2016
ROOF-02	"	"	9/27/2016
DW-01	Drywall & joint compound-ceilings & rear hallway	720 sq. ft.	9/27/2016
DW-02	"	"	9/27/2016
DW-03	"	"	9/27/2016
DW-04	"	"	9/27/2016
DW-05	"	"	9/27/2016
C-TEX-01	Ceiling Texture	625 sq. ft.	9/27/2016
C-TEX-02	"	"	9/27/2016
C-TEX-03	"	"	9/27/2016
Tan Square FL-01	Sheet Floor – Tan Square Pat. - M. Bath	100 sq. ft.	9/27/2016
Tan Square FL-02	"	"	9/27/2016
Beige w/Blue FL-01	Sheet Floor–Beige w/Blue – 2 Bedrooms	350 sq. ft.	9/27/2016
Beige w/Blue FL-02	"	"	9/27/2016
Beige Square FL-01	Sheet Floor–Beige Sq. Pat.- Hallway	60 sq. ft.	9/27/2016
Beige Square FL-02	"	"	9/27/2016
Beige Square FL-03	"	"	
Woodgrain FL-01	Sheet Floor – Woodgrain – Living Rm.	200 sq. ft.	9/27/2016
Woodgrain FL-02	"	"	9/27/2016
Gray Swirl FL -01	Sheet Floor – Gray Swirl – Dining Rm.	160 sq. ft.	9/27/2016



EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273
Tel/Fax: (704) 525-2205 / (704) 525-2382
<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 411607603
Customer ID: SECS21A
Customer PO:
Project ID:

Attention: Michael Zavislak
Summit Engineering & Construct. Services
3575 Centre Circle
Fort Mill, SC 29715
Project: 1126 Castle St. - 1080.115

Phone: (803) 547-8107
Fax:
Received Date: 09/27/2016 4:20 PM
Analysis Date: 09/30/2016
Collected Date: 09/27/2016

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
Woodgrain FL-3 411607603-0001	Woodgrain Flooring	Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Gray Swirl FL-3-Gray Flooring 411607603-0002	Gray Swirl Pattern Sheet Flooring	Gray Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Gray Swirl FL-3-Brown Flooring 411607603-0002A	Gray Swirl Pattern Sheet Flooring	Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Blue Floral Sh FL-3-Beige/Blue Flooring 411607603-0003	Blue Floral Pattern Sheet Flooring	Blue/Beige Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Blue Floral Sh FL-3-Mastic 411607603-0003A	Blue Floral Pattern Sheet Flooring	Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Blue Floral Sh FL-3-Beige Flooring 411607603-0003B	Blue Floral Pattern Sheet Flooring	Beige Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Beige w/Blue Print FL-3-Flooring 411607603-0004	Beige w/ Blue Print Pattern Sheet Flooring	Beige Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Beige w/Blue Print FL-3-Mastic 411607603-0004A	Beige w/ Blue Print Pattern Sheet Flooring	Gray Non-Fibrous Heterogeneous	99.4	0.63 Fibrous_Other	No Asbestos Detected
Tan Square Patt FL-3 411607603-0005	Tan Square Pattern Sheet Flooring	Tan Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Beige w/Pink FL-3 411607603-0006	Beige w/ Pink Diamond Pattern Sheet Flooring	Pink/Beige Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
WG-3 411607603-0007	Window Glazing	Gray/Tan Non-Fibrous Heterogeneous	100	<0.28 Fibrous_Other	No Asbestos Detected
Side-3-Shingle 411607603-0008	Asphalt Shingle & Felt	Black/Pink Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 10/03/2016 07:53:13



EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273
Tel/Fax: (704) 525-2205 / (704) 525-2382
<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 411607603
Customer ID: SECS21A
Customer PO:
Project ID:

Attention: Michael Zavislak
Summit Engineering & Construct. Services
3575 Centre Circle
Fort Mill, SC 29715
Project: 1126 Castle St. - 1080.115

Phone: (803) 547-8107
Fax:
Received Date: 09/27/2016 4:20 PM
Analysis Date: 09/30/2016
Collected Date: 09/27/2016

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
Side-3-Felt 411607603-0008A	Asphalt Shingle & Felt	Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Roof-3-Shingle 411607603-0009	Shingle & Felt	Gray/Black/Green Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
Roof-3-Felt 411607603-0009A	Shingle & Felt	Black Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

Analyst(s)

Aaron Hartley (15)

Lee Plumley, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Charlotte, NC

Initial report from: 10/03/2016 07:53:13



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

411607603

PHONE:
FAX:

Company Name : Summit ELT, Inc.		EMSL Customer ID:	
Street: 3575 Centre Circle		City: Fort Mill	State/Province: SC
Zip/Postal Code: 29715	Country: USA	Telephone #: 704 504-1125	Fax #:
Report To (Name): Michael Zavislak		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address:		Purchase Order:	
Project Name/Number: 1126 Castle St. <i>1080.115</i>		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: SC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

EMSL-Bill to: Same Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* - Please Check

- 3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples are from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <p>PLM - Bulk (reporting limit)</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p>TEM - Bulk</p> <p><input checked="" type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5</p> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM- Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p>Soil/Rock/Vermiculite*</p> <p><input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)</p> <p><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)</p> <p><input type="checkbox"/> TEM Qual. via Filtration Technique</p> <p><input type="checkbox"/> TEM Qual. via Drop-Mount Technique</p> <p><small>*Can not accept New York State Loose Fill Vermiculite Samples</small></p> <p>Other:</p> <p><input type="checkbox"/></p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name:

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Woodgrain FL-3	Woodgrain Flooring		9/27
Gray Swirl FL-3	Gray Swirl Pattern Sheet Flooring		"
Blue Floral Sh FL-3	Blue Floral Pattern Sheet Flooring		"
Beige w/Blue Print FL-3	Beige w/Blue Print Pattern Sheet Flooring		"
Tan Square Patt FL-3	Tan Square Pattern Sheet Flooring		"
Beige w/Pink <input checked="" type="checkbox"/>	Beige w/Pink Diamond Pattern Sheet Flooring		"
WG-3	Window Glazing		"

Client Sample # (s):	-	Total # of Samples:
Relinquished (Client): <i>M. Cao</i>	Date: <i>9-27-16</i>	Time:
Received (Lab): <i>M. Cao BUNCOli</i>	Date: <i>9/27/16</i>	Time: <i>1620</i>
Comments/Special Instructions:		

APPENDIX B

ASBESTOS LICENSES

SCDHEC ISSUED
Asbestos ID Card

Richard Wyche

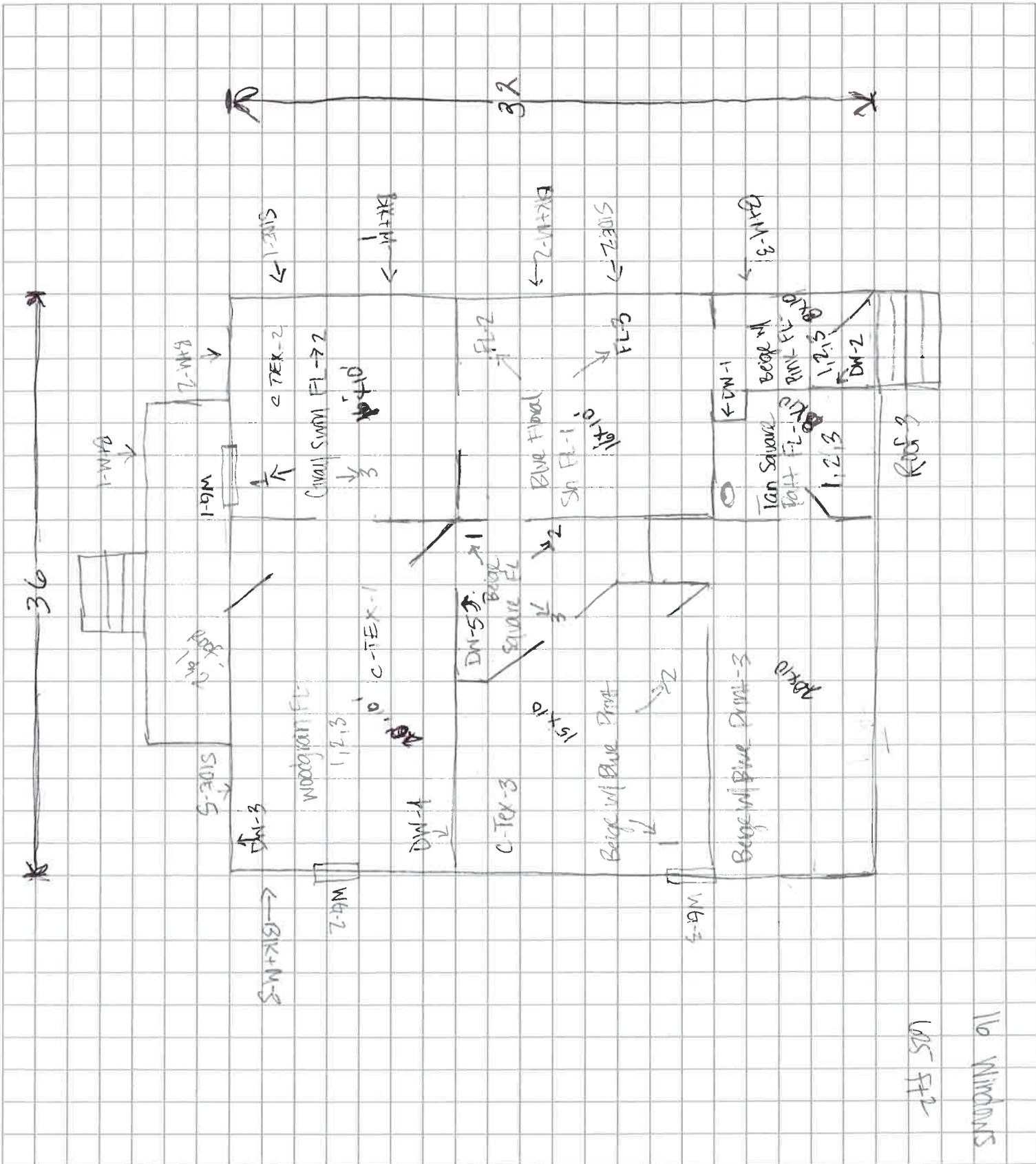
Expiration Date

CONSULTBI BI-01478 11/03/16



APPENDIX C

SUMMIT DOCUMENTATION



22 x 36