



## LIMITED ASBESTOS CONTAINING MATERIALS SURVEY REPORT

Former Piedmont Community Actions Facility

704 Howard Street

Spartanburg, South Carolina 29303



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**Issue Date:** February 14, 2018

**F&R Project Number:** 65V-0162

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Facility Sketch:

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Detached Storage Building Sample Locations

Roof Sample Locations

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Locations of Asbestos Containing 12"X12" Vinyl Floor Tiles

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Historical Documentation

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Laboratory Certificates of Analysis

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## **1.0 INTRODUCTION**

Froehling & Robertson, Inc. (F&R) conducted a Limited Asbestos Survey on January 8, 9, and February 8, 2018 at the former Piedmont Community Actions facility located at 704 Howard Street in Spartanburg, South Carolina. It is F&R's understanding that the structure is the subject of planned demolition which will impact building materials. The following sections document the survey procedures and results. Refer to Appendix A for Personnel Accreditation documentation of F&R personnel associated with this survey.

### **1.1. Purpose**

The purpose of the Limited Asbestos Survey is to identify Asbestos-Containing Materials (ACMs) that may require appropriate removal, handling, and disposal procedures prior to scheduled demolition activities at the subject property.

### **1.2. Site Description**

The site consists of a rectangular-shaped parcel approximately 1.8 acres in size and is developed for commercial use. The property is currently improved with one approximate 16,800 square-foot two-story commercial office building constructed in 1945. The office building is located on the southern portion of the Property. Additionally, a detached storage building and a metal diving tank are located south of the office building near the southeastern perimeter of the property.

The office building is constructed on a shallow concrete foundation with a slab-on-grade and a combination of steel framed and construction masonry unit (CMU) exterior walls. The building is constructed roughly in the shape of an "E" with a main northern building running roughly east-west with three discrete annexes running roughly north-south from the main building which are connected to one another via two small isolated breezeway/airlocks approximately midway down their length. The building has a composite built-up rubber membrane roof over the northern portion of the building and over the two isolated portions of the southern half of the building between three metal pitched roofs over the annexes. The northern portion of the building and two isolated portions of the southern half of the building have CMU block exterior walls. The remaining steel-framed portions of the three parallel annexes are finished with sheet metal siding. The building contains office space, conference rooms, a large hall on the first level, finished and unfinished attic space, two garage structures, restrooms, a kitchen, a detached chimney between two of the annexed structures, and a boiler room. The structure contains a second level of finished attic space over part of the westernmost steel framed annex portion of the building and unfinished attic space over the central portion of the building. HVAC system duct work as well as hot and cold water return lines associated with a boiler and radiator heating system are housed in the attic areas. Interior finishes consist of carpet, sheet vinyl flooring (SVF), and vinyl composite tile (VCT) covered floors; gypsum wallboard finished walls and ceilings; wood paneled (over wallboard), plastic tile, and fiberboard covered walls in select locations; and drop-



type ceilings with acoustical and fiberboard type ceiling tiles below gypsum wallboard finished ceilings. The second level of the building has wood floor and wood-framed walls finished with gypsum wallboard. The boiler room, chimney, and a portion of the front entrance façade are constructed of brick.

The detached storage building is constructed of CMU block walls with a dirt floor and a pitched wooden roof with an isolated area of remnant asphalt roof shingles. Additionally, a metal tank which was formerly utilized for diving practice by the US Naval Reserve which occupied the property from 1945 through the 1970s is located along the southern perimeter of the property. No suspect ACMs were observed to be associated with the metal diving tank. Refer to Appendix B for site sketches of the facility, including asbestos sample locations. Locations of asbestos containing floor tiles are depicted in Figures 8 and 9 in Appendix B.

### **1.3. Background**

F&R was provided with a previous Phase I Environmental Site Assessment report prepared by F&R titled *Piedmont Community Actions Phase I ESA* and dated June 9, 2016 (F&R Project Number 65U - 0055). During the Phase I ESA at the request of the client (City of Spartanburg), F&R's SC Licensed Asbestos Inspector, Terron Edwards (SC License #BI-00576) collected three (3) samples of suspect asbestos containing materials (ACMs) including two samples of thermal system insulation (TSI) pipe wrap and one sample of a TSI elbow joint, as detailed in Section 10.0 within the report. Suspect ACM samples collected for analysis were submitted to Southeast Environmental Microbiology Laboratories (SEEML), an NVLAP accredited and South Carolina licensed asbestos laboratory, in Greenville, South Carolina for analysis by Polarized Light Microscopy (PLM) following EPA Method 600/R-93/116. Laboratory analysis of the collected samples identified the TSI elbow joint as 25% chrysotile; the TSI pipe wrap as 25% and 30% chrysotile and as 15% and 18% amosite. The previous survey assessed the TSI associated with the hot and cold water return lines associated with the boiler room and radiator heating system in the building, and as such the previous survey was not sufficient to constitute a thorough building survey as required for demolition purposes with regard to applicable Federal and State regulations. Based on the results of the limited sampling of TSI pipe wrap and associated elbows, all TSI pipe wrap and associated elbows throughout the building should be considered asbestos containing. Historic asbestos survey data has been tabulated at the bottom of the table in Section 3.2 within this report. The laboratory certificate of analysis and bulk sample chain-of-custody form associated with the aforementioned previous survey is included for reference as Appendix C – Historical Documentation.

## **2.0 SCOPE OF SERVICES**

As outlined in F&R proposal number 1865-00357E, the survey included the following services with respect to the proposed demolition activities:

- Identification and sampling, as necessary, of suspect ACMs.



Based on information provided by the client, it is F&R's understanding that all structures on the property will be the subject of a demolition wherein all building materials will be impacted. As such, this survey as performed constitutes a relatively comprehensive building survey and this report shall not be utilized for the determination of presence or absence of other Regulated Materials outside of the demolition area should the scope of work be altered or expanded beyond that of the currently scheduled demolition.

### **3.0 LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY**

F&R's South Carolina Licensed Asbestos Building Inspector, Andréa LeCroy (South Carolina Asbestos Building Inspector #BI-01080), conducted the Asbestos Survey of the current site structures located at 704 Howard Street, Spartanburg, South Carolina on January 8, 9, and February 8, 2018. The noted Inspector was assisted by Caleb Sullivan on January 8, 2018.

Federal Regulations (40 CFR Part 61, Subpart M – National Emission Standard for Asbestos (NESHAP)), as well as South Carolina State Regulations (61-86.1 Standards of Performance for Asbestos Projects) require a thorough asbestos inspection of the structure to be conducted prior to the commencement of renovation and/or demolition activities. An ACM is defined by the Occupational Safety & Health Administration (OSHA) and the Environmental Protection Agency (EPA) as material containing greater than one percent (1%) asbestos.

#### **3.1. Asbestos-Containing Materials (ACM) Methodology**

This survey was conducted in general accordance with the Federal NESHAP and applicable State regulations for the presence of ACMs. The survey was characterized by a visual inspection and sampling of suspect building components at the subject property to be impacted by the proposed demolition activities.

Guidelines utilized in the asbestos survey were established by the EPA, ASTM International (ASTM), and The Environmental Information Association, Inc. (EIA). Utilized guidelines included: the Asbestos Hazard Emergency Response Act (40 CFR Part 763, Subpart E – Asbestos-Containing Materials in Schools (cited as AHERA)), ASTM Standard E2356-14 *Standard Practice for Comprehensive Building Asbestos Surveys*, and the EIA publication *Managing Asbestos in Buildings: A Guide for Owners and Managers – A Revision to the United States Environmental Protection Agency's 1985 document Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA 560/5-85-024) Known as the Purple Book*.

F&R's aforementioned South Carolina licensed asbestos inspector collected and submitted two hundred twenty (220) suspect asbestos-containing bulk samples to the laboratory, of which, a total of one hundred eighty-five (185) suspect asbestos-containing bulk samples with discernable layers were analyzed following selective positive stop direction to the Laboratory on all samples with the exception of wallboard and joint compound. Due to multiple layers, a total of two



hundred sixteen (216) samples were analyzed. Forty-three (43) non-friable organically bound samples of the two hundred sixteen (216) samples which were negative by Polarized Light Microscopy (PLM) analyses were verified by Transmission Electron Microscopy (TEM) in accordance with South Carolina State Regulations (61-86.1 Standards of Performance for Asbestos Projects).

Samples of suspect ACMs were organized as per the AHERA concept of Homogeneous Area (HA), collected, and transported to the Scientific Analytical Institute (SAI), an NVLAP accredited lab (NVLAP Lab Code: 200664-0) and South Carolina licensed asbestos laboratory in Greensboro, North Carolina for analysis by Polarized Light Microscopy (PLM) following EPA Method 600/R-93/116. Additionally, as required by South Carolina DHEC, negative results for non-friable organically bound (NOB) materials such as mastics, flooring, and roofing were verified with Transmission Electron Microscopy (TEM) analysis. Refer to Appendix A for Laboratory Certificates of Accreditations. Refer to Appendix D for Laboratory Certificates of Analysis and Bulk Sample Chain of Custody Forms for further description of sampled materials and analytical results.

F&R collected bulk samples of roofing materials during this survey. Roof core sample locations were temporarily patched, as needed, however F&R does not guarantee roof repairs and patches associated with sampling activities as F&R is not a professional roofer. Sampling activities were not coordinated with a professional roofing contractor; no contact information was provided or indicated as preferred by the Client.

### 3.2. Asbestos-Containing Materials Findings

The following material types were identified, sampled, and accordingly homogenized based upon similar construction discovered during bulk sampling:

- Built-Up Roofing
- Block/Mortar
- Mortar Associated with Brick
- Concrete
- Fiberboard and Associated Coatings
- Ceiling tiles
- Vinyl Floor Materials
- Joint Compound
- Gypsum Wallboard
- Caulking – Various Applications
- Mastics – Various Applications
- Ceiling Surface Coating
- Roof Surface Coatings
- Fiberglass TSI Backing

The following table presents a summary of survey results from sampling events performed on January 8, 9, and February 8, 2018. Refer to Appendix B for illustration of the locations of collected bulk samples. Locations of asbestos containing vinyl floor tiles are depicted in Figures 8 and 9 in Appendix B. Positive asbestos samples (samples containing >1% asbestos) are in **BOLD** type.



**SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE INFORMATION**

HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
1 <sup>2</sup>	VF-1	1	Drill Hall West Side of Room	12x12 Beige with Brown Streaks Vinyl Floor Tile	3% Chrysotile
1				Black Mastic	6% Chrysotile
1	VF-2	1	Drill Hall Along East Wall	12x12 Beige with Brown Streaks Vinyl Floor Tile	NA <sup>3</sup>
1				Black Mastic	NA
1	VF-3	1	Drill Hall Near South Wall	12x12 Beige with Brown Streaks Vinyl Floor Tile	NA
1				Black Mastic	NA
2	ST-4	1	Recreation Room Southwest Corner	12X 12 Cream with Green Cross Pattern Self Stick Tile	NAD <sup>4</sup>
2	ST-5	1	Center of Hall Adjacent to Recreation Room	12X 12 Cream with Green Cross Pattern Self Stick Tile	NAD
2	ST-6	1	Recreation Room Near Southeast Corner	12X 12 Cream with Green Cross Pattern Self Stick Tile	NAD <sup>5</sup>
3	ST-7	1	Recreation Room Near Northwest Side of Floor (Below HA #2)	12X12 Gold with Flower Pattern Self Stick Tile	NAD
3	ST-8	1	Recreation Room Central Eastern Side of Floor (Below HA #2)	12X12 Gold with Flower Pattern Self Stick Tile	NAD
3	ST-9	1	Recreation Room West of Entrance (Below HA #2)	12X12 Gold with Flower Pattern Self Stick Tile	NAD <sup>5</sup>
4	ST-10	1	E. M. Head, Medical Office, Sick Bay (Men's & Ladies Restrooms)	12X12 Cream with Beige & Blue Squares Self Stick Tile	NAD
4	ST-11	1	E. M. Head, Medical Office, Sick Bay (Men's & Ladies Restrooms)	12X12 Cream with Beige & Blue Squares Self Stick Tile	NAD
4	ST-12	1	E. M. Head, Medical Office, Sick Bay (Men's & Ladies Restrooms)	12X12 Cream with Beige & Blue Squares Self Stick Tile	NAD <sup>5</sup>





HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
5	ST-13	1	E.M. Head (Ladies Restroom)	12X12 Gold & Brown Floral Pattern Self Stick Tile	NAD
5	ST-14	1	E.M. Head (Ladies Restroom)	12X12 Gold & Brown Floral Pattern Self Stick Tile	NAD
5	ST-15	1	E.M. Head (Ladies Restroom)	12X12 Gold & Brown Floral Pattern Self Stick Tile	NAD <sup>5</sup>
6	ST-16	1	Restroom By Admin Office	Mastic 1 (Carpet Mastic)	NAD
6				Cream Square w/ Blue Pattern Vinyl Sheet Flooring	NAD
6				Mastic 2	NAD
6				Vinyl Sheet Flooring 2	NAD
6				Mastic 3	NAD
6	ST-17	1	Restroom By Admin Office	Mastic 1 (Carpet Mastic)	NAD
6				Cream Square w/ Blue Pattern Vinyl Sheet Flooring	NAD
6				Mastic 2	NAD
6				Vinyl Sheet Flooring 2	NAD
6				Mastic 3	NAD
6	ST-18	1	Restroom By Admin Office	Mastic 1 (Carpet Mastic)	NAD <sup>5</sup>
6				Cream Square w/ Blue Pattern Vinyl Sheet Flooring	NAD <sup>5</sup>
6				Mastic 2	NAD <sup>5</sup>
6				Vinyl Sheet Flooring 2	NAD <sup>5</sup>
6				Mastic 3	NAD <sup>5</sup>
7	WB-19	1	Hallway North Wall Between E.M Head and D.C. Locker Room	Gypsum Wallboard	NAD



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
7	WB-20	1	Recreation Room East Wall	Gypsum Wallboard	NAD
7	WB-21	1	Hallway North Wall Between C.O.'s Office & Pers. / Training Office	Gypsum Wallboard	NAD
7	WB-22	1	Ceiling of Office (2 <sup>nd</sup> Office East of Forms)	Gypsum Wallboard	NAD
7	WB-23	1	Classroom #5 North End of East Wall	Gypsum Wallboard	NAD
7	WB-24	1	Hallway East Wall South of Classroom #4	Gypsum Wallboard	NAD
15				Joint Compound	4% Chrysotile
7	WB-25	1	Drill Hall North Wall Near Attic Access Stairs	Gypsum Wallboard	NAD
7	WB-26	A	2 <sup>nd</sup> Deck North Wall in Front of Stairs	Gypsum Wallboard	NAD
8	SF-27	1	Galley Center of Room Near East Wall	Cream w/Green Trim Hexagon Vinyl Sheet Flooring	15% Chrysotile
8	SF-28	1	Galley Near North Wall	Cream w/Green Trim Hexagon Vinyl Sheet Flooring	NA
8	SF-29	1	Galley Center of Room near South Wall	Cream w/Green Trim Hexagon Vinyl Sheet Flooring	NA
9	VF-30	1	Hallways Throughout Building and Various Offices Sampled at South End of East Hallway Near Recreation Room (Below Carpet)	12x12 Tan VFT / Mastic with Topy Layer of Carpet Mastic (Mastic 1)	NAD
9				12x12 Tan VFT / Mastic with Top Layer of Carpet Mastic (Floor Tile)	4% Chrysotile
9				12x12 Tan VFT / Mastic with Top Layer of Carpet Mastic (Mastic 2)	6% Chrysotile
9	VF-31	1	Hallways Throughout the Building Sampled Across From Lounge	12x12 Tan VFT / Mastic with Topy Layer of Carpet Mastic (Mastic 1)	NAD
9				12x12 Tan VFT / Mastic with Top Layer of Carpet Mastic (Floor Tile)	NA



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
9				<b>12x12 Tan VFT / Mastic with Topy Layer of Carpet Mastic (Mastic 2)</b>	NA
9	VF-32	1	<b>Hallways Throughout the Building and Various Offices Sampled Near Entrance Door Across From Inst. Prep</b>	12x12 Tan VFT / Mastic with Top Layer of Carpet Mastic (Mastic 1)	NAD <sup>5</sup>
9				<b>12x12 Tan VFT / Mastic with Top Layer of Carpet Mastic (Floor Tile)</b>	NA
9				<b>12x12 Tan VFT / Mastic with Top Layer of Carpet Mastic (Mastic 2)</b>	NA
10	CM-33	1	Lounge Near North Wall	Carpet Mastic (Dark Blue Carpet) Mixed Mastics	NAD
10	CM-34	1	Lounge At Entrance	Carpet Mastic (Dark Blue Carpet) Mixed Mastics	NAD
10	CM-35	1	Lounge Near East Wall	Carpet Mastic (Dark Blue Carpet) Mixed Mastics	NAD <sup>5</sup>
11	FL-36	1	Admin Office Southwest Corner	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	NAD
11	FL-37	1	Admin Office Near Southeast Corner at Doorway	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	NAD
11	FL-38	1	Admin Office Near Center of Entrance	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	NAD <sup>5</sup>
12	CM-39	1	Pers/Training Office Northwestern Portion of Room	Carpet Mastic (Light Red Carpet Type 1)	NAD
12	CM-40	1	Pers/Training Office Center of Room	Carpet Mastic (Light Red Carpet Type 1)	NAD
12	CM-41	1	Pers/Training Office Near Southeast Corner	Carpet Mastic (Light Red Carpet Type 1)	NAD <sup>5</sup>
13	CM-42	1	C.O.'s Office Near Entrance to Restroom	Carpet Mastic (Light Beige Carpet)	NAD



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
13	CM-43	1	C.O.'s Office Restroom Center of Floor	Carpet Mastic (Light Beige Carpet)	NAD
13	CM-44	1	C.O.'s Office Near Entrance	Carpet Mastic (Light Beige Carpet)	NAD
14	SF-45	1	C.O.'s Office Near Entrance	Sheet Vinyl (Below Carpet) Note: Material is Vinyl Floor Tile not Sheet Vinyl per Laboratory	3% Chrysotile
14				Mastic	2% Chrysotile
14	SF-46	1	C.O.'s Office Along Northeast side of Room	Sheet Vinyl (Below Carpet) Note: Material is Vinyl Floor Tile not Sheet Vinyl per Laboratory	NA
14				Mastic	NA
14	SF-47	1	C.O.'s Office North of Entrance	Sheet Vinyl (Below Carpet) Note: Material is Vinyl Floor Tile not Sheet Vinyl per Laboratory	NA
14				Mastic	NA
15	JC-48	1	D. C. Locker Northeast Side of Wall at Entrance	Joint Compound	NAD
15	JC-49	1	South Hallway South Wall Between Machine Shop and Window	Joint Compound	4% Chrysotile
15	JC-50	1	Classroom #5 Ceiling, Center of Room	Joint Compound	NAD
15	JC-51	1	Classroom #5 Near Center of West Wall	Joint Compound	NAD
15	JC-52	1	Medical Office (Men's Room) Southeast Corner of Men's Room	Joint Compound	NAD
15	JC-53	1	South End of West Hall Along the South End of the East Wall	Joint Compound	NAD
15	JC-54	1	East End of North Hall Exterior Northwest Corner of Classroom #10	Joint Compound	4% Chrysotile



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
16	CMU-55	E	Exterior CMU Wall Northeast Side of Building Near East Entrance	CMU Block	NAD
16				Cementitious Surfacing	NAD
16	CMU-56	E	Exterior CMU Wall Near Hall Window Between Main Propulsion and Machine Shop	CMU Block	NAD
16				Cementitious Surfacing	NAD
16	CMU-57	E	Exterior CMU Wall Northwest Side of Building Near West Entrance	CMU Block	NAD
16				Cementitious Surfacing	NAD
16	CMU-217	E	Exterior CMU Wall North Corner Wall at East Entrance	Cementitious Surfacing	NAD
16	CMU-218	E	Exterior CMU Wall Northeast Corner of Building	Cementitious Surfacing	NAD
16	CMU-219	E	Exterior CMU Wall Exterior Wall of Classroom #5	Cementitious Surfacing	NAD
16	CMU-220	E	Exterior CMU Wall Exterior Wall of Admin. Office	Cementitious Surfacing	NAD
17	M-58	E	Exterior CMU Wall Near Exterior Windows Between Main Propulsion and Boiler Room	Mortar	NAD
17	M-59	E	Exterior CMU Wall Northwest Corner of Building	Mortar	NAD
17	M-60	E	Exterior CMU Wall of Office Adjacent to Forms	Mortar	NAD
18	VT-61	1	<b>Base Flooring Layer Black and Brown Checkerboard Pattern: C.O.'s Office &amp; Restroom, Admin Office, Inst. Prep., Pers./Training Office, Multi- Media, Classroom #4, D.C. Locker</b>	<b>Black 9" X 9" VFT</b>	<b>6% Chrysotile</b>
18				<b>Mastic</b>	<b>5% Chrysotile</b>
18	VT-62	1	<b>Base Flooring Layer Black and Brown Checkerboard Pattern: C.O.'s Office &amp; Restroom, Admin Office, Inst. Prep., Pers./Training Office, Multi- Media, Classroom #4, D.C. Locker</b>	<b>Black 9" X 9" VFT</b>	<b>NA</b>
18				<b>Mastic</b>	<b>NA</b>
18	VT-63	1	<b>Base Flooring Layer Black and Brown Checkerboard Pattern: C.O.'s Office &amp; Restroom, Admin Office, Inst. Prep., Pers./Training Office, Multi- Media, Classroom #4, D.C. Locker</b>	<b>Black 9" X 9" VFT</b>	<b>NA</b>
18				<b>Mastic</b>	<b>NA</b>



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
18	VT-64	1	Base Flooring Layer Black and Brown Checkerboard Pattern: C.O.'s Office & Restroom, Admin Office, Inst. Prep., Pers./Training Office, Multi- Media, Classroom #4, D.C. Locker	Brown 9" X 9" VFT / Mastic	3% Chrysotile
18	VT-65	1	Base Flooring Layer Black and Brown Checkerboard Pattern: C.O.'s Office & Restroom, Admin Office, Inst. Prep., Pers./Training Office, Multi- Media, Classroom #4, D.C.	Brown 9" X 9" VFT / Mastic	NA
18	VT-66	1	Base Flooring Layer Black and Brown Checkerboard Pattern: C.O.'s Office & Restroom, Admin Office, Inst. Prep., Pers./Training Office, Multi- Media, Classroom #4, D.C. Locker	Brown 9" X 9" VFT / Mastic	NA
19	VT-67	1	Base Flooring Layer Checkerboard Pattern	Gray 9" X 9" VFT	2% Chrysotile
19			Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical	Mastic	6% Chrysotile
19	VT-68	1	Base Flooring Layer Checkerboard Pattern	Gray 9" X 9" VFT	NA
19			Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical	Mastic	NA
19	VT-69	1	Base Flooring Layer Checkerboard Pattern	Gray 9" X 9" VFT	NA
19			Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical	Mastic	NA
20	VT-70	1	Mop Closet & Storage Closet	White 9" X 9" VFT	4% Chrysotile
20				Mastic	NAD
20	VT-71	1	Mop Closet & Storage Closet	White 9" X 9" VFT	NA
20				Mastic	NAD
20	VT-72	1	Mop Closet & Storage Closet	White 9" X 9" VFT	NA



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
20				Mastic	NAD <sup>5</sup>
19	VT-73	1	Base Flooring Layer Checkerboard Pattern Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical	Black with Cream Streaks 9" X 9" VFT	3% Chrysotile
19				Mastic	NA
19	VT-74	1	Base Flooring Layer Checkerboard Pattern Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical	Black with Cream Streaks 9" X 9" VFT	NA
19				Mastic	NA
19	VT-75	1	Base Flooring Layer Checkerboard Pattern Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical	Black with Cream Streaks 9" X 9" VFT	NA
19				Mastic	NA
21	CM-76	1	Radio	Carpet Mastic (Beige Carpet Type 1)	NAD
21	CM-77	1	Radio	Carpet Mastic (Beige Carpet Type 1)	NAD
21	CM-78	1	Radio	Carpet Mastic (Beige Carpet Type 1)	NAD
22	CM-79	1	Office & MIC Room	Carpet Mastic (Beige Carpet Type 2)	NAD
22	CM-80	1	Office & MIC Room	Carpet Mastic (Beige Carpet Type 2)	NAD
22	CM-81	1	Office & MIC Room	Carpet Mastic (Beige Carpet Type 2)	NAD <sup>5</sup>
23	CM-82	1	Supply	Carpet Mastic (Brown Carpet)	NAD
23	CM-83	1	Supply	Carpet Mastic (Brown Carpet)	NAD
23	CM-84	1	Supply	Carpet Mastic (Brown Carpet)	NAD
24	ST-85	1	Recreation Room	12" X 12" Grey & Green Diamond Self Stick Tile	NAD



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
24	ST-86	1	Recreation Room	12" X 12" Grey & Green Diamond Self Stick Tile	NAD
24	ST-87	1	Recreation Room	12" X 12" Grey & Green Diamond Self Stick Tile	NAD <sup>5</sup>
25	CM-88	1	Recruiting	Carpet Mastic (Beige Carpet Type 3)	NAD
25	CM-89	1	Recruiting	Carpet Mastic (Beige Carpet Type 3)	NAD
25	CM-90	1	Recruiting	Carpet Mastic (Beige Carpet Type 3)	NAD <sup>5</sup>
26	CM-91	1	Library	Carpet Mastic (Dark Gray Carpet)	NAD
26	CM-92	1	Library	Carpet Mastic (Dark Gray Carpet)	NAD
26	CM-93	1	Library	Carpet Mastic (Dark Gray Carpet)	NAD <sup>5</sup>
27	CM-94	1	Two Offices Across From Drill Hall	Carpet Mastic (Burgundy Carpet)	NAD
27	CM-95	1	Two Offices Across From Drill Hall	Carpet Mastic (Burgundy Carpet)	NAD
27	CM-96	1	Two Offices Across From Drill Hall	Carpet Mastic (Burgundy Carpet)	NAD <sup>5</sup>
28	VF-97	1	Two Offices Across From Drill Hall	12" X 12" White w/ Beige Streaks VFT / Mastic	2% Chrysotile
28	VF-98	1	Two Offices Across From Drill Hall	12" X 12" White w/ Beige Streaks VFT / Mastic	NA
28	VF-99	1	Two Offices Across From Drill Hall	12" X 12" White w/ Beige Streaks VFT / Mastic	NA
29	CM-100	1	Office Across from Inst. Prep Near Center of North Wall	Carpet Mastic (Light Red Carpet Type 2)	NAD
29	CM-101	1	Office Across from Inst. Prep Near Center of Room Along East Wall	Carpet Mastic (Light Red Carpet Type 2)	NAD
29	CM-102	1	Office Across from Inst. Prep South Wall Near Entrance	Carpet Mastic (Light Red Carpet Type 2)	NAD <sup>5</sup>
30	CM-103	1	Classroom 5 and Adjoining Office	Carpet Mastic (Light Red Carpet Type 2)	NAD





HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
30	CM-104	1	Classroom 5 and Adjoining Office	Carpet Mastic (Blue Carpet Type 2)	NAD
30	CM-105	1	Classroom 5 and Adjoining Office	Carpet Mastic (Blue Carpet Type 2)	NAD <sup>5</sup>
31	CM-106	1	Classroom 10	Carpet Mastic (Blue Carpet Type 2)	NAD
31	CM-107	1	Classroom 10	Carpet Mastic (Red Carpet)	NAD
31	CM-108	1	Classroom 10	Carpet Mastic (Red Carpet)	NAD <sup>5</sup>
32	CM-109	1	Inst. Prep	Carpet Mastic (Red Carpet)	NAD
32	CM-110	1	Inst. Prep	Carpet Mastic (Blue Carpet with Cream Specks)	NAD
32	CM-111	1	Inst. Prep	Carpet Mastic (Blue Carpet with Cream Specks)	NAD <sup>5</sup>
32	CM-112	1	Office Beside Multimedia	Carpet Mastic (Blue Carpet with Cream Specks)	NAD
33	CM-113	1	Office Beside Multimedia	Carpet Mastic (Blue Carpet Type 3)	NAD
33	CM-114	1	Office Beside Multimedia	Carpet Mastic (Blue Carpet Type 3)	NAD <sup>5</sup>
33	CM-115	1	Multimedia Room	Carpet Mastic (Blue Carpet Type 3)	NAD
34	CM-116	1	Multimedia Room	Carpet Mastic (Brown Carpet)	NAD
34	CM-117	1	Multimedia Room	Carpet Mastic (Brown Carpet)	NAD <sup>5</sup>
35	CM-118	1	CIC #1 & CIC #2	Carpet Mastic (Brown Carpet)	NAD
35	CM-119	1	CIC #1 & CIC #2	Mastic (Gray Blue Carpet)	NAD
35	CM-120	1	CIC #1 & CIC #2	Mastic (Gray Blue Carpet)	NAD <sup>5</sup>
36	CT-121	A	Walls in Attic Over Drill Hall	1' X 1' Ceiling Tile	NAD
36	CT-122	A	Walls in Attic Over Drill Hall	1' X 1' Ceiling Tile	NAD
36	CT-123	A	Walls in Attic Over Drill Hall	1' X 1' Ceiling Tile	NAD
37	IB-124	A	Ceiling of Attic Over Drill Hall	Insulation Backing (Black Coating)	NAD



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
37	IB-125	A	Ceiling of Attic Over Drill Hall	Insulation Backing (Black Coating)	NAD
37	IB-126	A	Ceiling of Attic Over Drill Hall	Insulation Backing (Black Coating)	NAD <sup>5</sup>
38	TC-127	1	Recreation Room and South End of Hall Adjacent to Recreation Room	Textured Ceiling	NAD
38	TC-128	1	Recreation Room and South End of Hall Adjacent to Recreation Room	Textured Ceiling	NAD
38	TC-129	1	Recreation Room and South End of Hall Adjacent to Recreation Room	Textured Ceiling	NAD
39	CT-130	1	Medical Office Only	1' X 1' Ceiling Tile w/ Pinholes	NAD
39	CT-131	1	Medical Office Only	1' X 1' Ceiling Tile w/ Pinholes	NAD
39	CT-132	1	Medical Office Only	1' X 1' Ceiling Tile w/ Pinholes	NAD
40	CT-133	1	Halls / Drill Hall / Various Offices	2' X 4' Ceiling Tile w/ Small & Large Holes	NAD
40	CT-134	1	Halls / Drill Hall / Various Offices	2' X 4' Ceiling Tile w/ Small & Large Holes	NAD
40	CT-135	1	Halls / Drill Hall / Various Offices	2' X 4' Ceiling Tile w/ Small & Large Holes	NAD
41	CT-136	1	Halls / Drill Hall / Various Offices	2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	NAD
41	CT-137	1	Halls / Drill Hall / Various Offices	2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	NAD
41	CT-138	1	Halls / Drill Hall / Various Offices	2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	NAD
42	CT-139	1	Lounge & Recruiting	2' X 4' Ceiling Tile w/ White Outer Sheeting	NAD
42	CT-140	1	Lounge & Recruiting	2' X 4' Ceiling Tile w/ White Outer Sheeting	NAD
42	CT-141	1	Lounge & Recruiting	2' X 4' Ceiling Tile w/ White Outer Sheeting	NAD
43	CT-142	1	Library Only	2' X 4' Ceiling Tile w/ Textured Outer Sheeting	NAD
43	CT-143	1	Library Only	2' X 4' Ceiling Tile w/ Textured Outer Sheeting	NAD
43	CT-143-A	1	Library Only	2' X 4' Ceiling Tile w/ Textured Outer Sheeting	NAD



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
44	CT-144	1	Limited Areas, Replacement Tile Southwest Ceiling of Classroom #5	2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	NAD
44	CT-145	1	Limited Areas, Replacement Tile Classroom #4, Center of Room	2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	NAD
44	CT-146	1	Limited Areas, Replacement Tile Drill Hall, Center of Room	2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	NAD
45	FB-147	1	Walls in Kitchen & Women's Room	Fiberboard with Square Pattern Laminate	NAD
45				Mastic	NAD
45	FB-148	1	Walls in Kitchen & Women's Room	Fiberboard with Square Pattern Laminate	NAD
45				Mastic	NAD
45	FB-149	1	Walls in Kitchen & Women's Room	Fiberboard with Square Pattern Laminate	NAD <sup>5</sup>
45				Mastic	NAD <sup>5</sup>
46	M-150	1	Restroom By Admin Office	Gray Mastic (Plastic w/ Paper Backing)	NAD
46	M-151	1	Restroom By Admin Office	Gray Mastic (Plastic w/ Paper Backing)	NAD
46	M-152	1	Restroom By Admin Office	Gray Mastic (Plastic w/ Paper Backing)	NAD
47	T-153	2	HVAC Unit on 2nd Deck	Duct Tape	NAD
47	T-154	2	HVAC Unit on 2nd Deck	Duct Tape	NAD
47	T-155	2	HVAC Unit on 2nd Deck	Duct Tape	NAD
48	VF-156	1	Movie Locker / Entrance to 2nd Deck Only	12" X 12" Black VFT	5% Chrysotile
48				Mastic	5% Chrysotile
48	VF-157	1	Movie Locker / Entrance to 2nd Deck Only	12" X 12" Black VFT	NA



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
48				Mastic	NA
48	VF-158	1	Movie Locker / Entrance to 2nd Deck Only	12" X 12" Black VFT	NA
48				Mastic	NA
48	VF-159	1	Movie Locker / Entrance to 2nd Deck Only	12" X 12" Brown VFT	NA
48				Mastic	NA
48	VF-160	1	Movie Locker / Entrance to 2nd Deck Only	12" X 12" Brown VFT	NA
48				Mastic	NA
48	VF-161	1	Movie Locker / Entrance to 2nd Deck Only	12" X 12" Brown VFT	NA
48				Mastic	NA
49	CS-162	1	Machine Shop By Garage Door	Concrete Slab	NAD
49	CS-163	1	Machine Shop Center of Slab	Concrete Slab	NAD
49	CS-164	1	Main Propulsion East Side of Slab	Concrete Slab	NAD
50	WG-165	E	<b>Windows</b> Machine Shop, Propulsion, and the Two Hall Windows on the South Side of the Building Near Machine Shop and Propulsion	Window Glazing	3% Chrysotile
50	WG-166	E	<b>Windows</b> Machine Shop, Propulsion, and the Two Hall Windows on the South Side of the Building Near Machine Shop and Propulsion	Window Glazing	NA
50	WG-167	E	<b>Windows</b> Machine Shop, Propulsion, and the Two Hall Windows on the South Side of the Building Near Machine Shop and Propulsion	Window Glazing	NA
51	B-168	1	Boiler	White Boiler Jacket	20% Chrysotile
51	B-169	1	Boiler	White Boiler Jacket	NA
51	B-170	1	Boiler	White Boiler Jacket	NA



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
51	B-171	1	Around Boiler Door	Red & White Insulation	20% Chrysotile
51	B-172	1	Around Boiler Door	Red & White Insulation	NA
51	B-173	1	Around Boiler Door	Red & White Insulation	NA
52	BG-174	1, E	Chimney, Boiler Room Walls, Front Entrance: North Wall of Chimney	Brick Grout	NAD
52	BG-175	1, E	Chimney, Boiler Room Walls, Front Entrance: Southwest Corner of Boiler Room	Brick Grout	NAD
52	BG-176	1, E	Chimney, Boiler Room Walls, Front Entrance: East Side of Front Entrance	Brick Grout	NAD
53	C-177	E	Exterior of Building Windows (Newer Windows) Outside of Radio Room	Window Caulk	NAD
53	C-178	E	Exterior of Building Windows (Newer Windows) Outside of Admin Office	Window Caulk	NAD
53	C-179	E	Exterior Building Windows (Newer Windows) Outside of Pers/Training Office	Window Caulk	NAD <sup>5</sup>
54	CM-180	S	Storage Building Northwest Corner	CMU Block	NAD
54	CM-181	S	Storage Building Northeast Corner	CMU Block	NAD
54	CM-182	S	Storage Building Southeast Corner	CMU Block	NAD
54	M-183	S	Storage Building East Wall	Mortar	NAD
54	M-184	S	Storage Building Northwest Corner	Mortar	NAD
54	M-185	S	Storage Building Near Top of Northwest Wall	Mortar	NAD
55	RV-186	R	Roof Vent Near HVAC Unit	Caulk (Mixed Caulks)	NAD
55	RV-187	R	Roof Vent Near HVAC Unit	Caulk (Mixed Caulks)	NAD
55	RV-188	R	Roof Vent Near HVAC Unit	Caulk (Mixed Caulks)	NAD <sup>5</sup>
56	C-189	R	Flashing on Roof Parapet Wall Center of West Wall	Caulk	NAD
56	C-190	R	Flashing on Roof Parapet Wall North Wall, Center of Western Half	Caulk	NAD



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
56	C-191	R	Flashing on Roof Parapet Wall North Wall, Near Northeast End	Caulk	NAD
57	C-192	R	Roof Flashing South Wall of Composite Roof, Near Northeast Corner of Center Metal Roof	Caulk	NAD
57	C-193	R	Roof Flashing South Wall of Composite Roof, Near Northwest Corner of Center Metal Roof	Caulk	NAD
57	C-194	R	Roof Flashing South Wall of Composite Roof, Near Northwest Corner of Western Metal Roof	Caulk	NAD <sup>5</sup>
58	BR-195	R	Composite Roof Southside of Building Flat Section Between Western and Center Metal Roof	Built Up Roofing Layers (Foam Layer Not Analyzed)	NAD
58	BR-196	R	Composite Roof East of Center of West Wall	Built Up Roofing Layers (Foam Layer Not Analyzed)	NAD
58	BR-197	R	Composite Roof Center of Roof	Built Up Roofing Layers (Foam Layer Not Analyzed)	NAD
59	C-198	E	<b>Exterior Seams of CMU Building Walls, Isolated Areas Sampled at Southeast Corner of Exterior East Wall Between Drill Hall and E.M. Head</b>	<b>Caulk</b>	<b>5% Chrysotile</b>
59	C-199	E	<b>Exterior Seams of CMU Building Walls, Isolated Areas Sampled at Northeast Corner of Wall Between Main Propulsion and Machine Shop</b>	<b>Caulk</b>	<b>NA</b>
59	C-200	E	<b>Exterior Seams of CMU Building Walls, Isolated Areas Sampled at Building Corner Between Exterior Wall of Classroom #10 and the Northeast Entrance</b>	<b>Caulk</b>	<b>NA</b>
60	SC-201	R	<b>Metal Roofs Center Roof Near Central West Perimeter</b>	<b>Surface Coating</b>	<b>3% Chrysotile</b>
60	SC-202	R	<b>Metal Roofs West Roof, Near Central East Perimeter</b>	<b>Surface Coating</b>	<b>3% Chrysotile</b>



HA #	Sample #	Situation <sup>1</sup>	Sample Location(s)	Material Description	Result (Percent ACM)
60	SC-203	R	<b>Metal Roofs</b> Center Roof, West Side Near Adjoining Section of Built-Up Roof	Surface Coating	3% Chrysotile
60	SC-204	R	<b>Metal Roofs</b> Center Roof Near Northeast Corner	Surface Coating	3% Chrysotile
60	SC-205	R	<b>Metal Roof</b> East Roof Near Northwest Corner	Surface Coating	4% Chrysotile
60	SC-206	R	<b>Metal Roofs</b> Center Roof, Northwest Corner	Surface Coating	NA
60	SC-207	R	<b>Metal Roofs</b> West Roof, Near Northeast Corner	Surface Coating	NA
61	BS-208	R	Seams of Built-Up Roof East Perimeter of Roof, Northeast Corner	Brown Sealant	NAD
61	BS-209	R	Seams of Built-Up Roof East Perimeter of Roof, Center	Brown Sealant	NAD
61	BS-210	R	Seams of Built-Up Roof East Perimeter of Roof, Southeast Corner	Brown Sealant	NAD <sup>5</sup>
62	SC-211	R	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building	Cementitious Surface Coating	NAD
62	SC-212	R	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building	Cementitious Surface Coating	NAD
62	SC-213	R	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building	Cementitious Surface Coating	NAD <sup>5</sup>
63	RS-214	S, R	Storage Building Roof Remnant Shingles, South Side of Roof	Roofing Shingle	NAD
63	RS-215	S, R	Storage Building Roof Remnant Shingles, North Side of Roof	Roofing Shingle	NAD
63	RS-216	S, R	Storage Building Roof Remnant Shingles, Center of North Side of Roof	Roofing Shingle	NAD
64 <sup>6</sup>	S-1	2, A	<b>Hot &amp; Cold Water Return Lines</b> <b>Throughout Building:</b> <b>2<sup>nd</sup> Deck, Attic, Above Ceilings</b>	<b>Elbows of Pipe Wrap</b> <b>Thermal System</b> <b>Insulation</b>	<b>25%</b> <b>Chrysotile</b>
64 <sup>6</sup>	S-2	2, A	<b>Hot &amp; Cold Water Return Lines</b> <b>Throughout Building:</b> <b>2<sup>nd</sup> Deck, Attic, Above Ceilings</b>	<b>Pipe Wrap</b> <b>Thermal System</b> <b>Insulation</b>	<b>30%</b> <b>Chrysotile</b> <b>&amp;</b> <b>18%</b> <b>Amosite</b>
64 <sup>6</sup>	S-3	2, A	<b>Hot &amp; Cold Water Return Lines</b> <b>Throughout Building:</b> <b>2<sup>nd</sup> Deck, Attic, Above Ceilings</b>	<b>Pipe Wrap</b> <b>Thermal System</b> <b>Insulation</b>	<b>30%</b> <b>Chrysotile</b> <b>&amp;</b> <b>18%</b> <b>Amosite</b>



<sup>1</sup>Situation: 1 –First; 2 – Second; B – Boiler Room; A-Attic; R - Roof; E – Exterior; S – Storage Building

<sup>2</sup>**Bold:** Asbestos Containing Material (>1%);

<sup>3</sup>NA: Not Analyzed – Positive Stop Implemented;

<sup>4</sup>NAD: No Asbestos Detected PLM Analysis;

<sup>5</sup>NAD: No Asbestos Detected, TEM Analysis

<sup>6</sup>64: Sample Collection and Analysis Performed as Additional Services in Conjunction with a Phase I ESA of the Property Performed by F&R in June, 2016

### 3.3. Asbestos-Containing Materials Inventory

F&R conducted a survey of the reasonably and safely accessible portions of the building. The following table presents identified materials containing greater than 1% asbestos, as well as presumed materials with regard to F&R survey activities and verified information obtained from Owner provided previous reports. Estimated quantities of the ACMs identified are provided for use in development of budgetary estimates for demolition and may not accurately represent all materials present. Photographic documentation of ACMs for reference is provided as Appendix F.

**ASBESTOS-CONTAINING MATERIALS INVENTORY**

HA #	Material Description	Material Location(s)	Friable/ Non-Friable	Condition/ Potential for Disturbance	Result (% ACM)	Estimated Quantity <sup>1</sup>
1	12"x12" Beige with Brown Streaks Vinyl Floor Tile (VFT)	Drill Hall, Dental	NF	Good / Low	3% Chrysotile	3,500 SF
1	Mastic	Drill Hall, Dental	NF	Good / Low	6% Chrysotile	3,500 SF
8	Cream w/Green Trim Hexagon Vinyl Sheet Flooring	Galley	NF	Damaged / Low	15% Chrysotile	275 SF
9	12"x12" Tan VFT / Mastic with Top Layer of Carpet Mastic (Floor Tile)	Base Flooring Layer Hallways Throughout the Building, Classroom #10 (Below Carpet)	NF	Good / Low	4% Chrysotile	3,000 SF
9	Mastic Associated with 12"x12" Tan VFT	Base Flooring Layers Hallways Throughout the Building, Classroom #10 (Below Carpet)	NF	Good / Low	6% Chrysotile	3,000 SF
14	Sheet Vinyl (Below Carpet) Note: Material is VFT not Sheet Vinyl per Laboratory	C.O.'s Office	NF	Good / Low	3% Chrysotile	400 SF
14	Mastic (Sheet Vinyl)	C.O.'s Office	NF	Good / Low	2% Chrysotile	400 SF





HA #	Material Description	Material Location(s)	Friable/ Non-Friable	Condition/ Potential for Disturbance	Result (% ACM)	Estimated Quantity <sup>1</sup>
15	Joint Compound	Gypsum Wallboard Throughout Building (Walls, Above Drop Ceilings, Walls, and Behind Wood-Paneling)	F	Good / Low	4% Chrysotile	51,000
18	Black 9"X 9" VFT	Base Flooring Layer Checkerboard Pattern C.O.'s Office & Restroom, Admin Office, Inst. Prep., Pers/Training Office, Multi-Media, Classroom #4, D.C. Locker	NF	Good / Low	6% Chrysotile	825 SF
18	Mastic (9"X 9" Black & Brown VFT)	Base Flooring Layer Checkerboard Pattern C.O.'s Office & Restroom, Admin Office, Inst. Prep., Pers/Training Office, Multi-Media, Classroom #4, D.C. Locker	NF	Good / Low	5% Chrysotile	1,650 SF
18	Brown 9" X 9" VFT	Base Flooring Layer Checkerboard Pattern C.O.'s Office & Restroom, Admin Office, Inst. Prep., Pers/Training Office, Multi-Media, Classroom #4, D.C. Locker	NF	Good / Low	3% Chrysotile	825 SF



HA #	Material Description	Material Location(s)	Friable/ Non-Friable	Condition/ Potential for Disturbance	Result (% ACM)	Estimated Quantity <sup>1</sup>
19	Gray 9" X 9" VFT	Base Flooring Layer Checkerboard Pattern Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5	NF	Good / Low	2% Chrysotile	1,200 SF
19	Mastic (Gray & Black w/ Cream Streaks 9" X 9" VFT)	Base Flooring Layer Checkerboard Pattern Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5	NF	Good / Low	6% Chrysotile	2,600 SF
19	Black with Cream Streaks 9" X 9" VFT	Base Flooring Layer Checkerboard Pattern Radio, Supply, Recreation Room, E.M. Head (Women's Restroom), Galley, Sick Bay, Medical Office (Men's Restroom), Library, Classroom #5, Storage Closet by Medical Office	NF	Good / Low	3% Chrysotile	1,400 SF
20	White 9" X 9" VFT	Mop & Storage Closet by Forms	NF	Good / Low	4% Chrysotile	40 SF
28	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across from Drill Hall / East of Forms (Below Carpet)	NF	Good /Low	2% Chrysotile	400 SF
48	12" X 12" Black VFT / Mastic	Movie Locker / Entrance to 2nd Deck Checkerboard Pattern	NF	Good Low	5% Chrysotile	75 SF



HA #	Material Description	Material Location(s)	Friable/ Non-Friable	Condition/ Potential for Disturbance	Result (% ACM)	Estimated Quantity <sup>1</sup>
48	Mastic (12" X 12" Black & Brown VFT)	Movie Locker / Entrance to 2nd Deck	NF	Good /Low	5% Chrysotile	150 SF
48	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Checkerboard Pattern	NF	Good /Low	5% Chrysotile	15
50	Window Glazing	Windows Machine Shop, Propulsion, and the Two Hall Windows on the South Side of the Building Near Machine Shop and Propulsion	NF	Damaged / High	3% Chrysotile	630 LF
51	White Boiler Jacket	Boiler and Associated Piping	F	Good / High	20% Chrysotile	200 SF
51	Red & White Insulation	Around Boiler Door	F	Damaged / High	20% Chrysotile	5 SF
59	Caulk	Exterior Seams of CMU Building Walls,	NF	Good / High	5% Chrysotile	225 LF
60	Surface Coating	Metal Roofs	F	Fair / High	3% & 4% Chrysotile	10,800 SF
64 <sup>2</sup>	Thermal System Insulation Elbows	Hot & Cold Water Return Lines Throughout Building: 2 <sup>nd</sup> Deck, Attic, Above/Along Ceilings, Behind Walls	F	Good / Medium	25% Chrysotile	3,000 LF
64 <sup>2</sup>	Thermal System Insulation Pipe Wrap	Hot & Cold Water Return Lines Throughout Building: 2 <sup>nd</sup> Deck, Attic, Above/Along Ceilings, Behind Finished Walls	F	Good / Medium	25%, 30% Chrysotile and 15%, 18% Amosite	3,000 LF

<sup>1</sup>SF = Square Feet | LF = Linear Feet | CF = Cubic Feet

<sup>2</sup>64: Sample Collection and Analysis Performed as Additional Services in Conjunction with a Phase I ESA of the Property Performed by F&R in June, 2016

F&R presumes that, where materials have been documented to be ACMs and where those materials are similar to other materials which have not been found to be positive, those similar materials will be considered to be ACMs (i.e. where one material was analyzed and found to be



positive, it is prudent to consider other similar materials positive, despite potential analytical data to the contrary). Consequently, while some samples of joint compound were found to be non-asbestos containing, the inability to delineate asbestos containing from non-asbestos containing joint compound visually or by homogenous area precludes treatment of joint compound as non-asbestos containing at the facility.

### **3.3.1. Asbestos In Sheet Vinyl Flooring**

While the above listed Sheet Vinyl Flooring and associated mastic ACMs are classified as non-friable while installed, removal from the underlying substrate without disturbance of the fibrous backing and mastic cannot be performed without rendering it friable; therefore, to be disturbed portions of the material should be treated as friable for abatement purposes.

### **3.3.2. Wallboard System Discussion**

The South Carolina Department of Health and Environmental Control Asbestos Section (Department) issued a memorandum on March 2, 2019 defining the Department's position on composite analysis of joint compound/wallboard. The Department participated in a pilot project in which joint compound/wallboard was left in-place during building demolition. In these instances, the composite analytical data for joint compound/wallboard that was left in place was identified as containing 1% or less asbestos. Air monitoring was performed during demolition activities by the Department and the contractor. Analysis of air samples during the pilot project revealed positive results during multiple events including demolition activities which utilized wet suppression methods. Based on a review of air monitoring data collected during the pilot project and with consideration of the Occupational and Health Administration's position that joint compound and gypsum board are separate materials that should be analyzed separately for asbestos content; the Department decided to not allow for composite sampling or analysis of joint compound/wallboard.

For this survey, F&R collected individual samples of both the drywall and joint compound; this individual sampling approach was performed in response to SC DHEC requirements and OSHA guidelines for worker exposure. Analysis of eight wallboard (WB-20, WB-21, WB-22, WB-23, WB-24, WB-25, WB-26, WB-27, and WB-28) and seven joint compound samples (JC-48, JC-49, JC-50, JC-51, JC-52, JC-53, and JC-54) found that the wallboard tested negative for asbestos and that two samples of the joint compound contained chrysotile asbestos at a concentration of 4% (JC-49 and JC-54). It is noted that two samples of the wallboard contained joint compound which was separated by the laboratory and analyzed individually (WB-20-B and WB-24-B). One of these two samples of joint compound was identified with a concentration of 4% chrysotile asbestos (WB-24-B).

Because three samples (WB-24-B, JC-49, and JC-54) document that asbestos containing joint compound is present (4% chrysotile), the entire wall system must be considered to be asbestos



containing. Because SC DHEC and OSHA requirements consider each wallboard system component separately, work which impacts the wallboard system is considered Class II Work and subject to NESHAP and OSHA 1910.1101 Class II work requirements. Consequently, prior to building demolition, the wallboard system must be abated and disposed of as asbestos. As noted above, while some samples of joint compound were found to be non-asbestos containing, the inability to delineate asbestos containing from non-asbestos containing joint compound visually or by homogenous area precludes treatment of joint compound as non-asbestos containing at the facility.

### **3.3.3. Presumed Asbestos-Containing Materials**

During the conduct of this survey, sampling was limited to those materials which were within the areas designated by the client, which were safely accessible, and which were able to be sampled without damaging systems or structures. As such, some materials should be presumed to be positive, unless sampling is conducted and shown to be negative. Such presumed asbestos containing materials (PACMS) include, but are not limited to:

- Gaskets and packing materials in plumbing or hydraulic systems, where present,
- Electrical panel backing/arc deflectors/spark arresters,
- Chimneys and flues or other cementitious pipes or panels,

Note that asbestos was used in over 3,000 known products and was used extensively in construction materials including in insulation and finish materials such as drywall-based systems, acoustical tiles, caulks and mastics, vinyl-based materials, and specialty products. Asbestos also continues to be used in new construction because, as stated by the EPA, "the manufacture, importation, processing, and distribution in commerce of [various] products [...] are not banned."

### **3.4. Asbestos-Containing Materials Recommendations**

Photographic Documentation of site conditions and asbestos containing materials is provided as Appendix E.

As detailed above, several materials were identified as asbestos-containing, utilized in various instances through the structure. Prior to renovation and/or demolition activities, F&R recommends that the identified ACMs be appropriately removed, handled, and disposed of by an appropriately licensed/accredited Abatement Contractor utilizing appropriately licensed/accredited personnel.

F&R further recommends that a third party Asbestos Professional be retained to prepare asbestos abatement specification documents prior to site work and, during work, to provide on-site surveillance and guidance of the Asbestos Abatement Contractor to confirm complete and proper removal/disposal of ACMs in accordance with applicable federal, state, and local



regulations. This recommendation is made as a best practice to reduce potential exposure to workers and limit liability.

In addition, it should be noted that through NESHAP Applicability Determinations, asbestos bulk samples analyzed via PLM which indicate a result of asbestos content to be less than ten (10) percent, including trace amounts (<1%), the material in question shall either be assumed to be an ACM or further analyzed via PLM Point Count or TEM to verify asbestos content. Results obtained via PLM Point Count or TEM analysis shall supersede previous results obtained by standard PLM analysis. Samples with analytical results via PLM which indicate that no asbestos was detected are not required to be further analyzed via PLM Point Count or TEM.

Should additional suspect ACMs be discovered during renovation and/or demolition activities that have not been sampled and will be disturbed, F&R recommends the work be temporarily halted. Samples of suspect materials should be collected, analyzed, and handled accordingly prior to the resumption of renovation and/or demolition activities.

### **3.5. Applicable Regulations**

#### **3.5.1. EPA/NESHAP Regulations for Asbestos-Containing Materials**

The U.S. Environmental Protection Agency promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part 61], which addresses the application, removal, and disposal of asbestos-containing materials (ACM). Under NESHAP the following categories are defined for asbestos-containing materials:

Friable - When dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable - When dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Category I Non-friable ACM - Packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos.

Category II Non-friable ACM – Material, excluding Category I Non-friable ACM, which contains more than 1% asbestos.

Regulated Asbestos Containing Material (RACM) – One of the following:

1. Friable ACM
2. Category I Non-friable ACM that has become friable.
3. Category I Non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.



4. Category II Non-friable ACM that has a high probability of becoming, or has become, friable by the forces expected to act on the material in the course of demolition or renovation operations.

Under NESHAP, the following actions are required:

1. Prior to the commencement of demolition or renovation activities, the building owner must inspect the affected facility or part of the facility where the demolition or renovation activities will occur for the presence of asbestos.
2. Remove RACM from the facility before activities begin that would break up, dislodge, or similarly disturb the material or preclude access for subsequent removal.
3. RACM need not be removed if:
  - a) It is Category I non-friable ACM that is not in poor condition.
  - b) It is on a facility component that is encased in concrete or other similar material and is adequately wet whenever exposed.
  - c) It was not accessible for testing and was therefore not discovered until after demolition began and because of the demolition the material cannot be safely removed.
  - d) It is Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

### **3.5.2. South Carolina Asbestos Hazard Management Program**

The South Carolina Department of Health and Environmental Control (DHEC) Department of Air Quality administers the Asbestos Hazard Management Program (AHMP) which accredits individuals and issues permits for asbestos removal projects on behalf of the Federal NESHAP program which has been delegated to the State of South Carolina.

For more information, visit the SC DHEC website at:  
<https://www.scdhec.gov/Environment/AirQuality/Asbestos/>.

### **3.5.3. OSHA Asbestos Regulations**

The Occupational Safety and Health Administration (OSHA) regulates employee exposure to asbestos under 29 CFR 1926.1101 and 29 CFR 1910.1001. Work associated with known or suspect ACMs must be conducted according to these regulations in addition to the noted EPA regulations.



#### 4.0 LIMITATIONS

This report has been prepared for the exclusive use of the City of Spartanburg and/or their agents. This service was performed in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Conclusions and recommendations are based, in part, upon information provided to us by others and site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Observations and recommendations are based upon conditions readily visible at the site at the time of the site visit, and upon current industry standards.

During this study, suspect asbestos samples were submitted for analysis at a NVLAP-accredited laboratory via polarized light microscopy; Inaccessible areas, such as behind solid ceilings or behind solid walls were not surveyed; therefore, some target materials may not have been identified. As with similar surveys of this nature, actual conditions exist only at the precise locations from which samples were collected or tested. Areas inspected were limited to those designated by the scope of services by the Client. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. Visual evaluation of other materials of concern conducted comprised a cursory visual review of the building materials and, to a limited extent, contents of the facility. It is also understood that this is a non-invasive survey so that it is possible that concealed materials may be present that were not accessible during the original survey. No other warranty, expressed or implied, is made. Reasonable effort was made by inspection personnel to locate and sample suspect materials within the structure with regard to the scope of services. However, for a facility, the existence of unique or concealed ACMs and debris is a possibility. F&R does not warrant, guarantee or profess to have the ability to locate or identify all ACMs in a facility.

Under this scope of services, F&R assumes no responsibility regarding response actions (e.g. O&M Plans, Encapsulation, Abatement, Removal, Tenant Notification, etc.) initiated as a result of these findings. F&R assumes no liability for the duties and responsibilities of the Client with respect to compliance with appropriate regulations. Compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements and should be performed by appropriately qualified and licensed/accredited personnel, as warranted.

Froehling & Robertson, Inc. by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to local, state, or federal public agencies conditions at the site that may present a potential danger to public health, safety, or the environment. The Client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent danger to public health, safety, or the environment. The contents of the report should not be construed in any





way as a recommendation to purchase, sell, or develop the project site. F&R retains the right to revise this report if new information is later discovered or made available. The report must be presented in its entirety.

**Appendix A**

F&R Personnel and Laboratory Accreditations

ANDRÉA LeCROY  
*Environmental Scientist*  
alecroy@fandr.com



**Education**

B.S., Environmental Studies  
University of North Carolina  
Asheville, 2001

**Years of Experience**

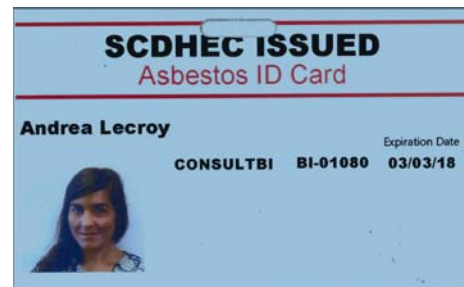
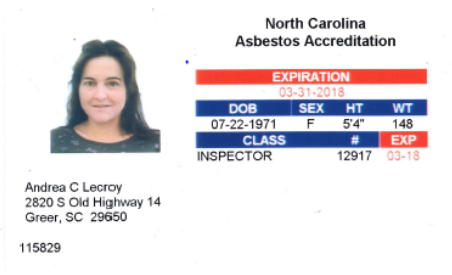
1 Year with F&R  
5 Years Total

Undergraduate Coursework  
Geology, University of South  
Carolina (1991-1993)

**Asbestos**

*Federal / North Carolina / South Carolina*

- Building Inspector



**Erosion Control & Sediment Control**

- *SC Certified Erosion Prevention and Sediment Control Inspector (CEPSCI)*



**OSHA Training**

- 40-Hour HAZWOPER

United States Department of Commerce  
National Institute of Standards and Technology



---

**Certificate of Accreditation to ISO/IEC 17025:2005**

---

**NVLAP LAB CODE: 200664-0**

**Scientific Analytical Institute**  
Greensboro, NC

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

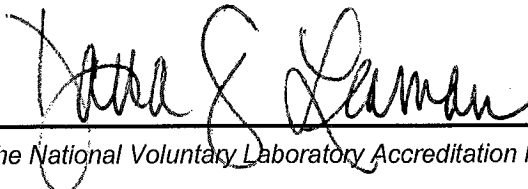
**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

---

2018-01-01 through 2018-12-31

*Effective Dates*



---

*For the National Voluntary Laboratory Accreditation Program*



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Scientific Analytical Institute**  
4604 Dundas Drive  
Greensboro, NC 27407  
Mr. Nathaniel Durham  
Phone: 336-292-3888 Fax: 336-292-3313  
Email: ndurham@sailab.com  
<http://www.sailab.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 200664-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Nathaniel Durham".

For the National Voluntary Laboratory Accreditation Program

**Appendix B**

Facility Sketch:

*Site Location Map / Site Vicinity Map*

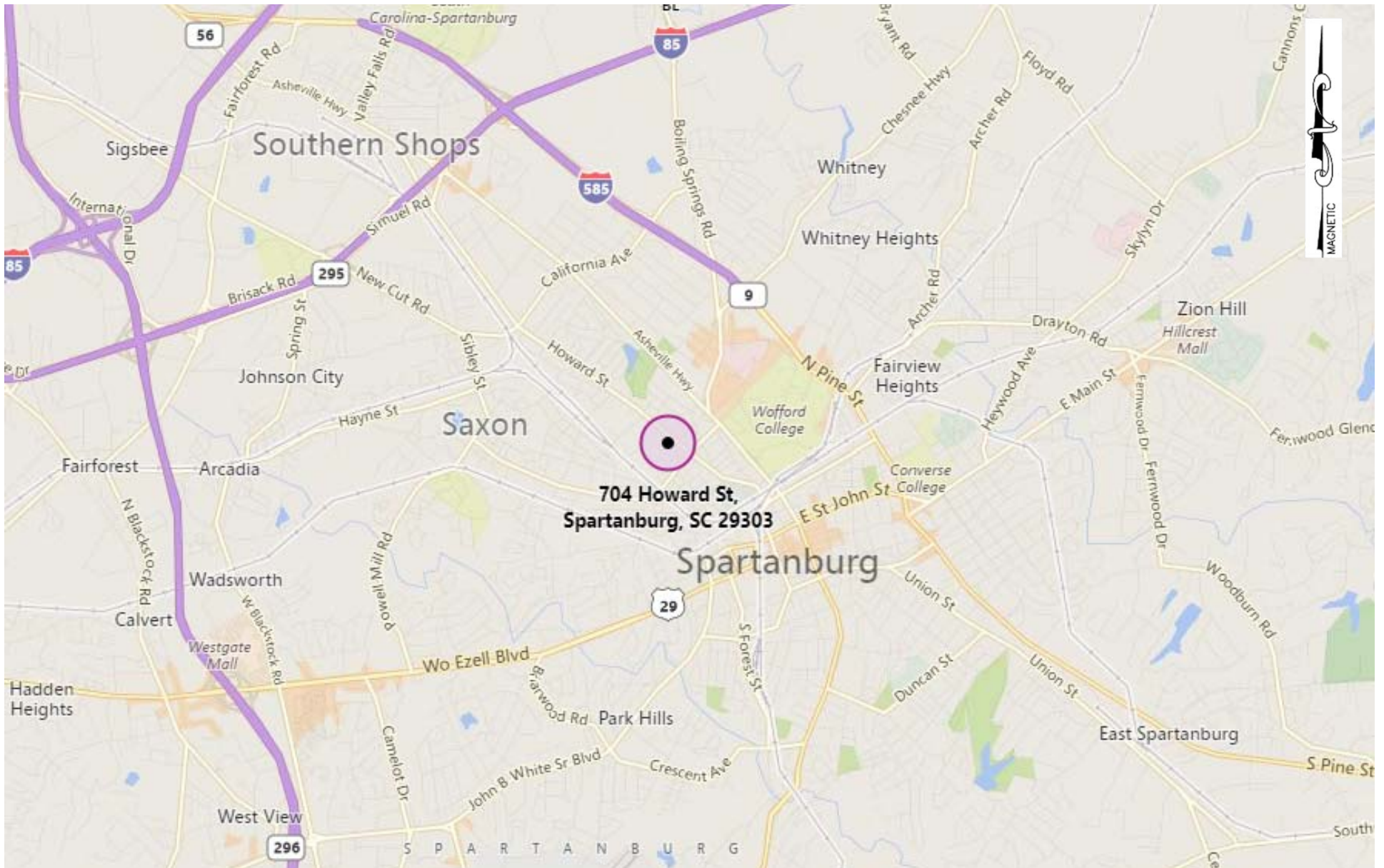
*Interior/Exterior Sample Locations*

*Detached Storage Building Sample Locations*


*Roof Sample Locations*

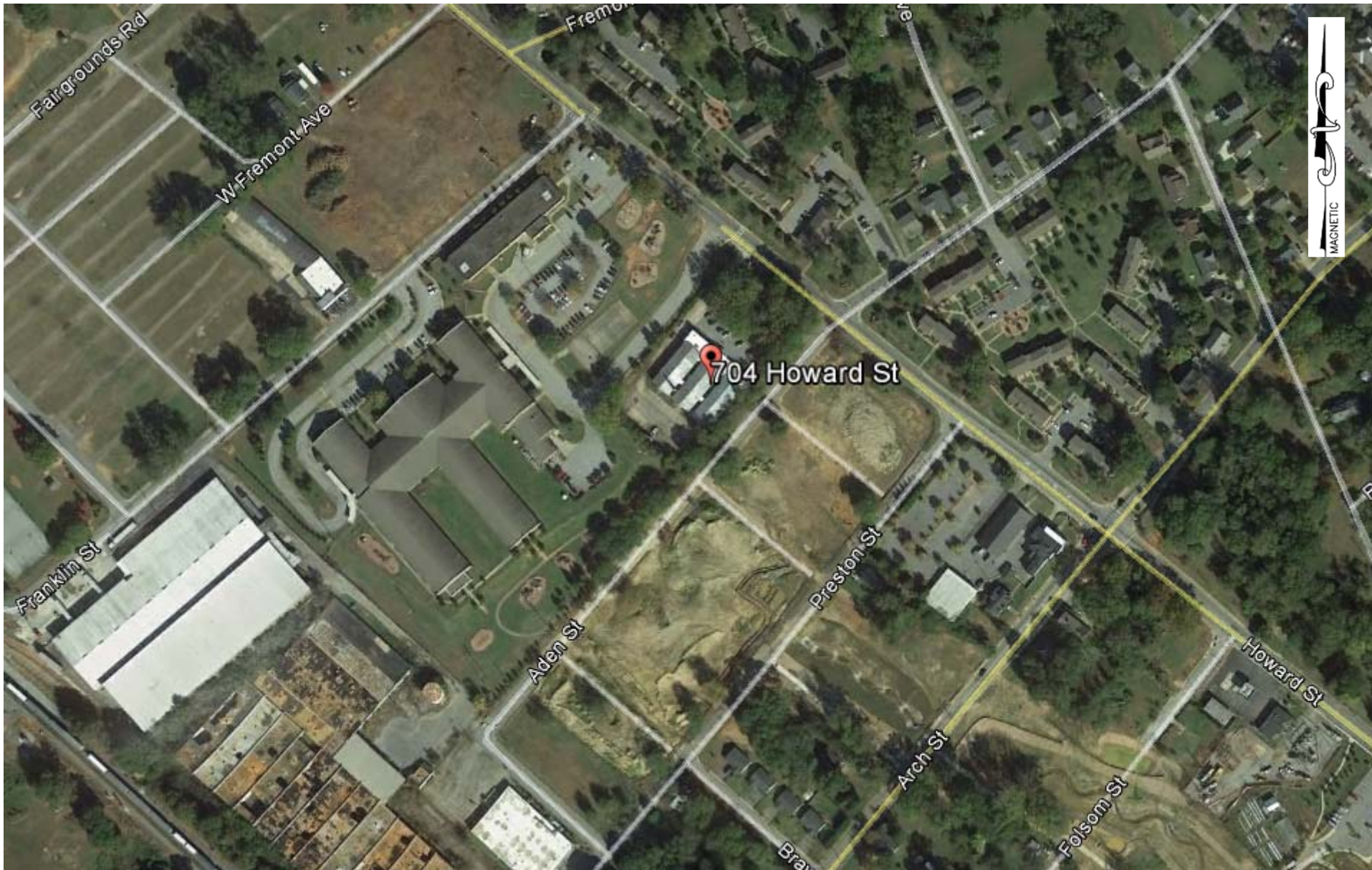
*Locations of Asbestos Containing 9"X9" Vinyl Floor Tiles*

*Locations of Asbestos Containing 12"X12" Vinyl Floor Tiles*



**SITE VICINITY MAP**

	<p><b>FROEHLING &amp; ROBERTSON, INC.</b>  <i>Engineering Stability Since 1881</i>          18 Woods Lake Road          Greenville, South Carolina 29607   USA          T 864.271.2840   F 864.271.8124</p>	Project:	Former PCA Facility Pre-Demolition Asbestos Survey	
		Location:	704 Howard Street, Spartanburg, SC 29303	
		Source:	Bing Maps	
		Date:	February 14, 2018	
		Job Number:	65V-0162	
		Drawn By:	AL	Figure 1
			Not to Scale	



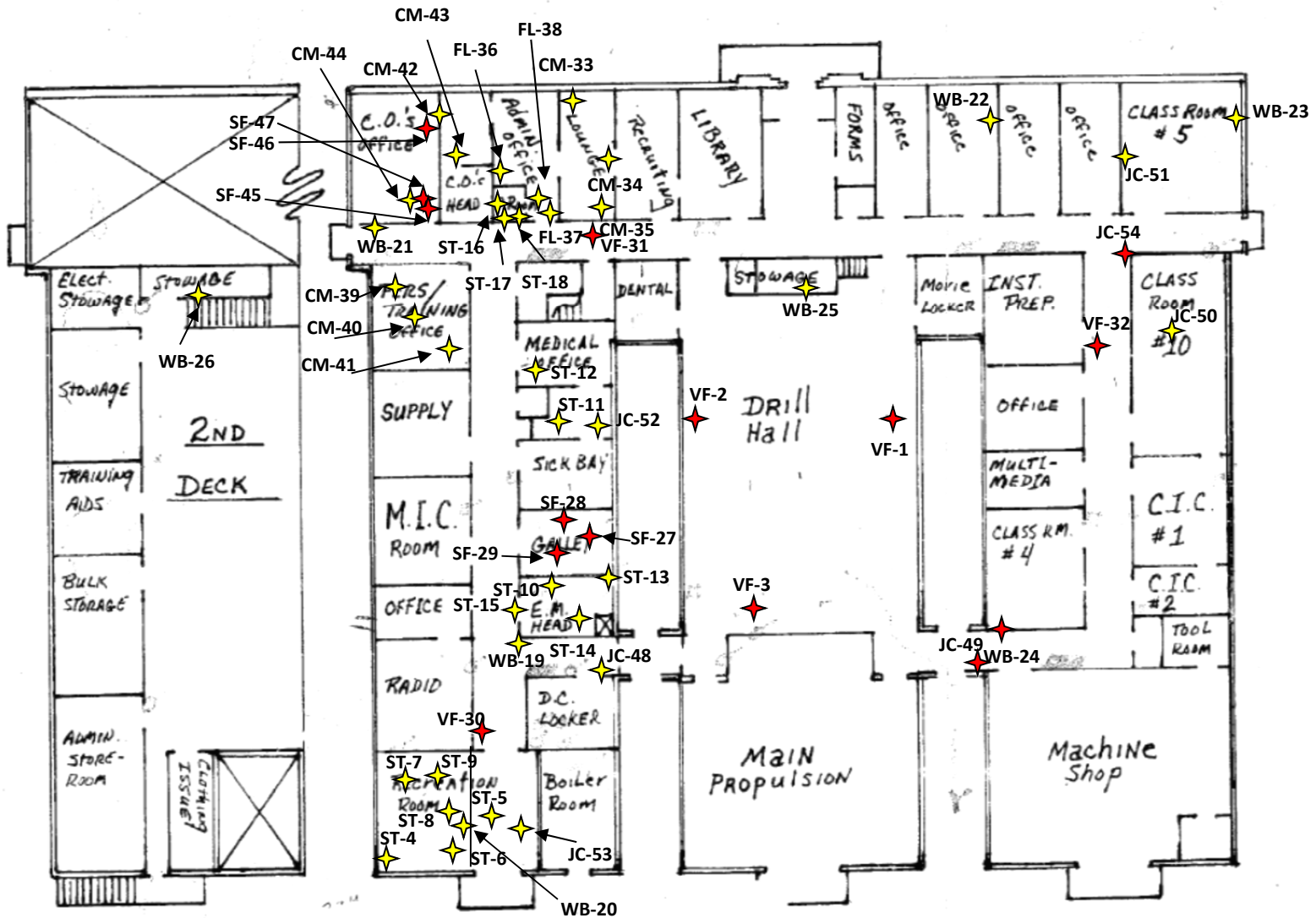
**SITE LOCATION MAP**



**FROEHLING & ROBERTSON, INC.**  
*Engineering Stability Since 1881*  
 18 Woods Lake Road  
 Greenville, South Carolina 29607 | USA  
 T 864.271.2840 | F 864.271.8124

Project:	Former PCA Facility Pre-Demolition Asbestos Survey	
Location:	704 Howard Street, Spartanburg, SC 29303	
Source:	Google Earth	
Date:	February 14, 2018	
Job Number:	65V-0162	
Drawn By:	AL	Figure 2
	Not to Scale	





- >1% Asbestos Detected
- No Asbestos Detected

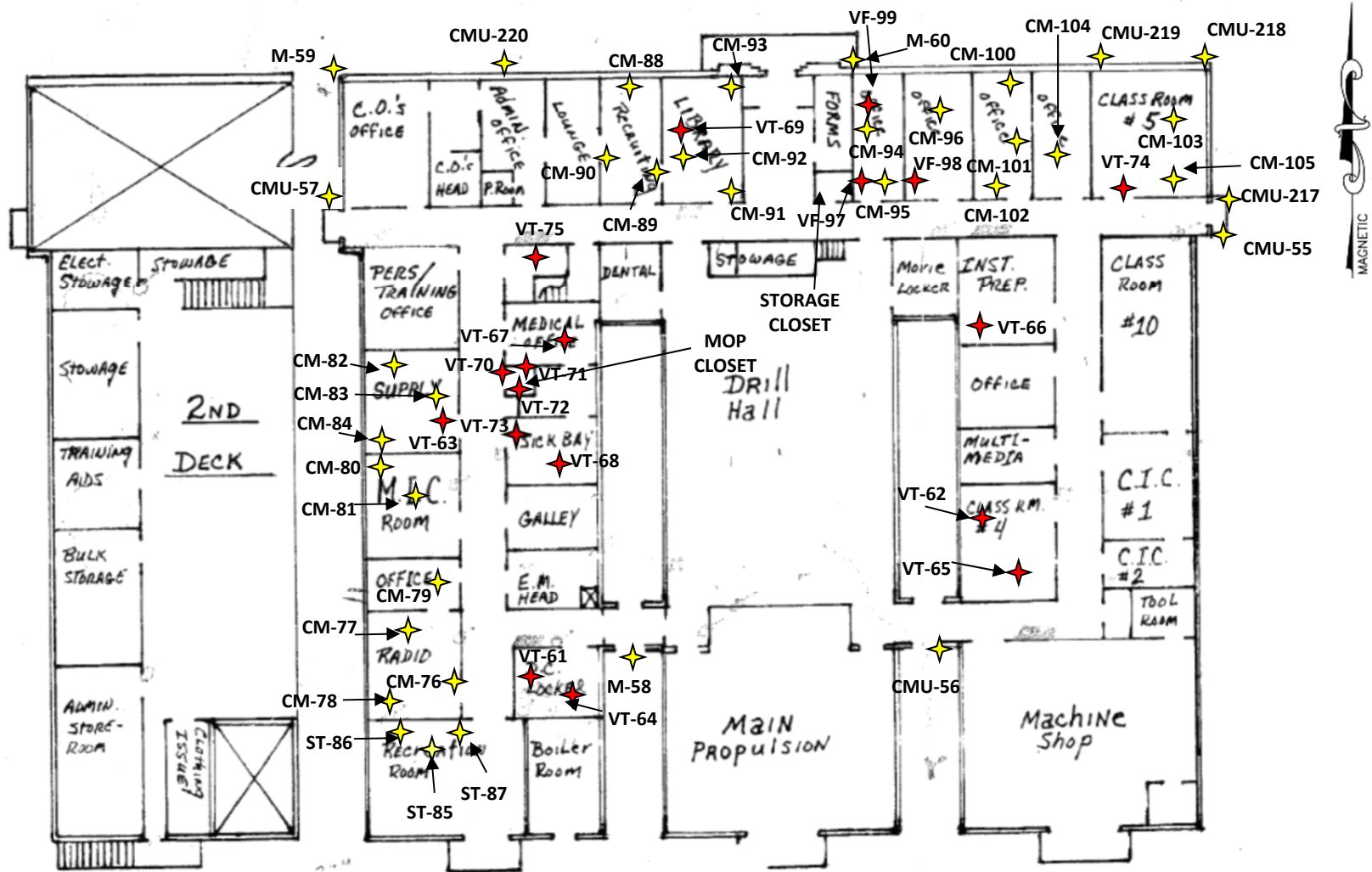
### SAMPLE LOCATION PLAN

**FROEHLING & ROBERTSON, INC.**

Engineering Stability Since 1881  
 18 Woods Lake Road  
 Greenville, South Carolina 29607 | USA  
 T 864.271.2840 | F 864.271.8124

Project:	Former PCA Facility Pre-Demolition Asbestos Survey
Location:	704 Howard Street, Spartanburg, SC 29303
Source:	Piedmont Community Actions
Date:	February 14, 2018
Job Number:	65V-0162
Drawn By: AL	Not to Scale





★ >1% Asbestos Detected

★ No Asbestos Detected

### SAMPLE LOCATION PLAN

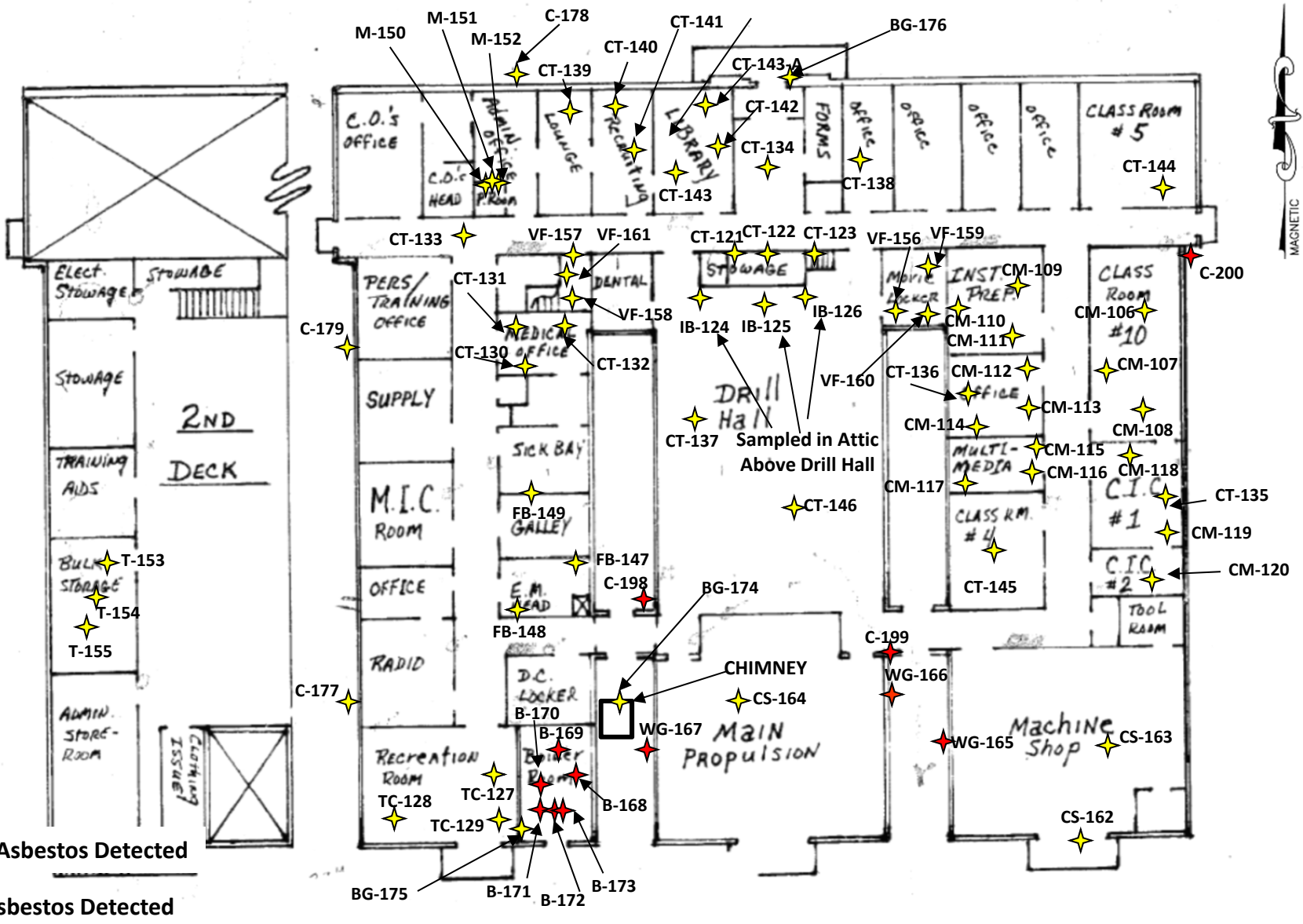
**FROEHLING & ROBERTSON, INC.**

Engineering Stability Since 1881  
 18 Woods Lake Road  
 Greenville, South Carolina 29607 | USA  
 T 864.271.2840 | F 864.271.8124

Project:	Former PCA Facility Pre-Demolition Asbestos Survey
Location:	704 Howard Street, Spartanburg, SC 29303
Source:	Piedmont Community Actions
Date:	February 14, 2018
Job Number:	65V-0162
Drawn By: AL	Not to Scale

Figure 4





**SAMPLE LOCATION PLAN**




**FROEHLING & ROBERTSON, INC.**  
*Engineering Stability Since 1881*  
 18 Woods Lake Road  
 Greenville, South Carolina 29607 | USA  
 T 864.271.2840 | F 864.271.8124

Project:	Former PCA Facility Pre-Demolition Asbestos Survey
Location:	704 Howard Street, Spartanburg, SC 29303
Source:	Piedmont Community Actions, Inc.
Date:	February 14, 2018
Job Number:	65V-0162
Drawn By: AL	Not to Scale

Figure 5



 No Asbestos Detected

DETACHED STORAGE BUILDING SAMPLE LOCATION PLAN			
	<b>FROEHLING &amp; ROBERTSON, INC.</b> <i>Engineering Stability Since 1881</i> 18 Woods Lake Road Greenville, South Carolina 29607   USA T 864.271.2840   F 864.271.8124	Project:	Former PCA Facility Pre-Demolition Asbestos Survey
		Location:	704 Howard Street, Spartanburg, SC 29303
		Source:	Piedmont Community Actions, Inc.
		Date:	February 14, 2018
		Job Number:	65V-0162
		Drawn By: AL	Not to Scale



★ >1% Asbestos Detected

★ No Asbestos Detected

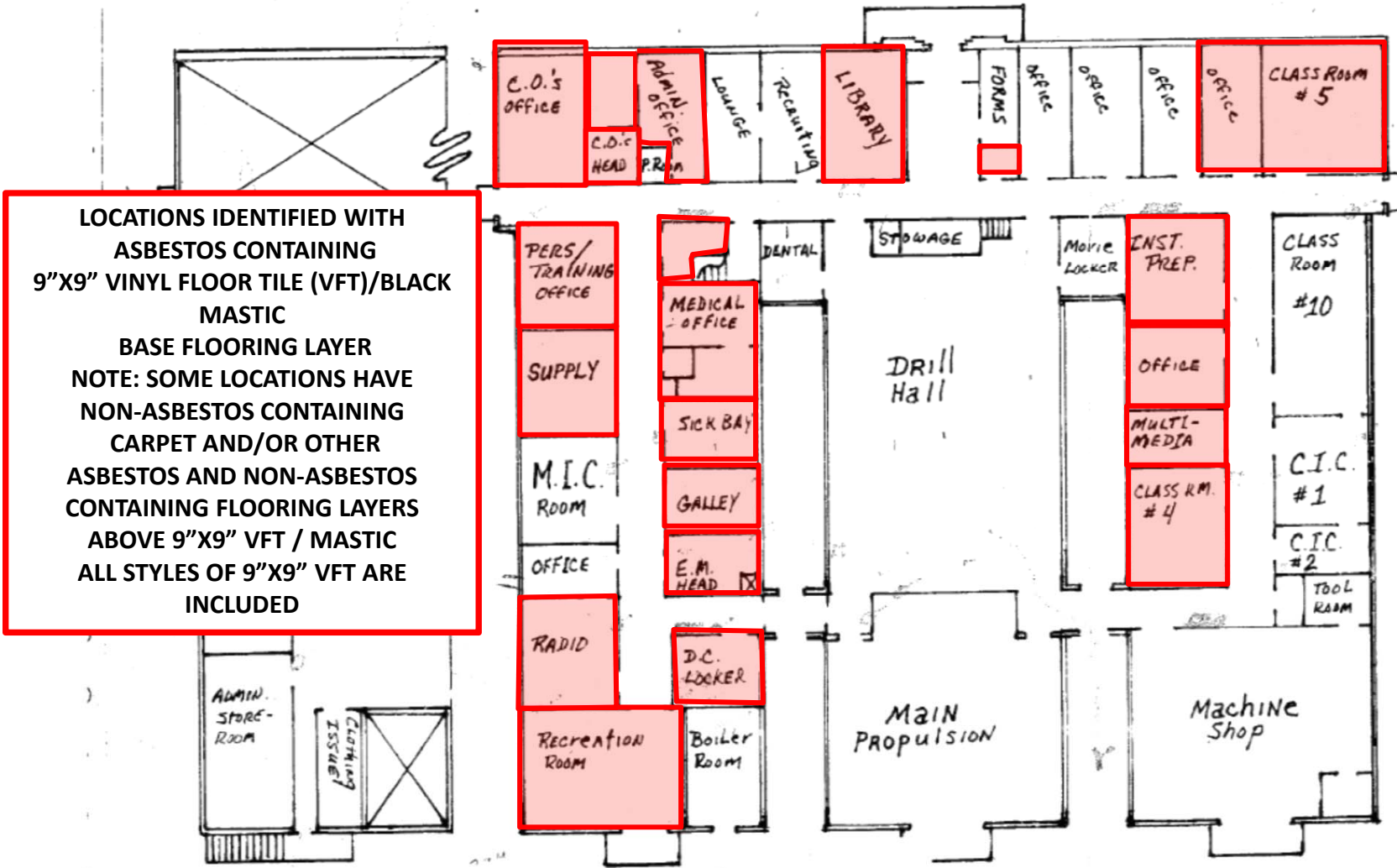
### ROOF SAMPLE LOCATION PLAN




**FROEHLING & ROBERTSON, INC.**

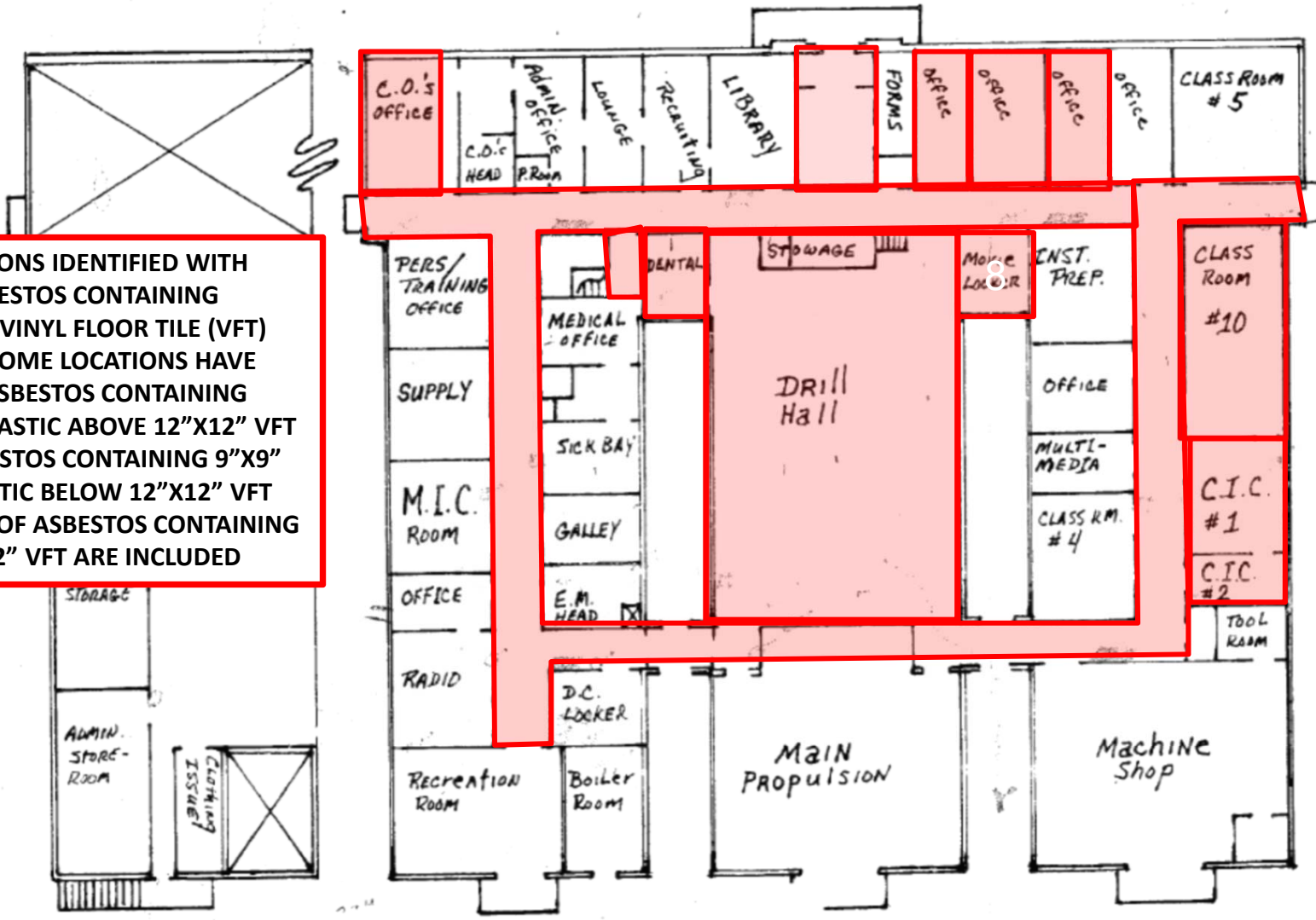
*Engineering Stability Since 1881*  
 18 Woods Lake Road  
 Greenville, South Carolina 29607 | USA  
 T 864.271.2840 | F 864.271.8124


Project:	Former PCA Facility Pre-Demolition Asbestos Survey	
Location:	704 Howard Street, Spartanburg, SC 29303	
Source:	Piedmont Community Actions, Inc.	
Date:	February 14, 2018	
Job Number:	65V-0162	
Drawn By: AL	Not to Scale	Figure 7



ASBESTOS CONTAINING 9"X9" VFT SAMPLE LOCATION PLAN			
	<p><b>FROEHLING &amp; ROBERTSON, INC.</b>  <i>Engineering Stability Since 1881</i>                      18 Woods Lake Road                      Greenville, South Carolina 29607   USA                      T 864.271.2840   F 864.271.8124</p>	Project:	Former PCA Facility Pre-Demolition Asbestos Survey
		Location:	704 Howard Street, Spartanburg, SC 29303
		Source:	Piedmont Community Actions
		Date:	February 14, 2018
		Job Number:	65V-0162
		Drawn By: AL	Not to Scale
		Figure 8	

**LOCATIONS IDENTIFIED WITH ASBESTOS CONTAINING 12"X12" VINYL FLOOR TILE (VFT)**  
**NOTE: SOME LOCATIONS HAVE NON-ASBESTOS CONTAINING CARPET/MASTIC ABOVE 12"X12" VFT AND ASBESTOS CONTAINING 9"X9" VFT/MASTIC BELOW 12"X12" VFT**  
**ALL STYLES OF ASBESTOS CONTAINING 12"X12" VFT ARE INCLUDED**



ASBESTOS CONTAINING 12"X12" VFT SAMPLE LOCATION PLAN			
	<p><b>FROEHLING &amp; ROBERTSON, INC.</b>  <i>Engineering Stability Since 1881</i>                      18 Woods Lake Road                      Greenville, South Carolina 29607   USA                      T 864.271.2840   F 864.271.8124</p>	Project:	Former PCA Facility Pre-Demolition Asbestos Survey
		Location:	704 Howard Street, Spartanburg, SC 29303
		Source:	Piedmont Community Actions
		Date:	February 14, 2018
		Job Number:	65V-0162
		Drawn By:	AL
		Not to Scale	Figure 9

## **Appendix C**

Historical Documentation





SEEML Reference Number:  
160527004-A

### **Southeast Environmental Microbiology Laboratories**

506-A Laurens Road  
Greenville, South Carolina 29607  
Phone: (864) 233-3770  
Fax: (864) 233-6589

The information and data for **F&R Greenville** has been checked for thoroughness and accuracy. The following report is contained within this document:

- Bulk asbestos fiber analysis: EPA 600/M4-82-020 Interim Method for the Determination of Asbestos in Bulk Insulation
  
- Bulk asbestos fiber analysis: EPA 600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials

Lab Manager Review: *Andrea Berrios*

Date: 05/27/16

Thank you for choosing Southeast Microbiology Laboratories (SEEML). We strive to provide superior quality testing, analytical data and customer service. SEEML is accredited through the National Institute of Standards and Technology (NIST) National Voluntary Accreditation Program (NVLAP) for bulk asbestos analysis (NVLAP # 201031-0).

#### Confidentiality Notice:

The document(s) contained herein are confidential and privileged information intended for the exclusive use of the individual or entity named above. If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the document(s) is strictly prohibited. If you have received this document in error, please immediately notify us by telephone to arrange for its return. Thank you.

#### Guidelines for Interpretation:

A material is considered regulated asbestos containing material (ACM) where the asbestos content is determined to be one percent or greater. Several organizations, including the American Conference of Government Industrial Hygienists (ACGIH); the American Industrial Hygiene Association (AIHA); the Indoor Air Quality Association (IAQA); the United States Environmental Protection Agency (USEPA); the Centers for Disease Control (CDC) as well as the California Department of Health Services (CADHS) have published guidelines for assessment and interpretation of analytical data indicating a tested material is ACM.

Interpretation of the data and information within this document is left to the company, consultant, and/or persons who conducted the fieldwork.



**Southeast Environmental Microbiology Laboratories - Asbestos Division**

506 A- Laurens Rd, Greenville, SC 29607  
 Phone: 864-233-3770, Fax: 864-233-3779 , www.seeml.com

**PLM Asbestos Bulk Sample Summary**

Client:	Kenneth Lauber F & R - Greenville 18 Woods Lake Rd. Greenville, SC. 29607	Date Sampled:	05/20/15
		Date Received:	05/27/16
		Date Analyzed:	05/27/16
		Date Reported:	05/27/16
		Project Name:	704 Howard St.
Analyzed by:	Andrea Berrios	Project Address:	Spartanburg, SC
Methodology:	EPA/600/R-93/116 Without Gravimetry	SEEML Ref#:	160527004-A

Regular/Split Layers Analyzed: 3/0

Lab No.:	% Asbestos Type	% Fibrous Non-Asbestos Material Type	% Non-Fibrous Material	Description/Location
003A	25% Chrysotile	5% Cellulose	70%	TSI- Elbow
S-1				
004A	30% Chrysotile, 18% Amosite	5% Cellulose	47%	TSI-Run
S-2				
005A	25% Chrysotile, 15% Amosite	5% Cellulose	55%	TSI-Run
S-3				

Approved by: *Andrea Berrios*

Approved Signatory: Andrea Berrios

The test report shall not be reproduced except in full, without written approval of the laboratory. The 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. SEEML reserves the right to dispose of all samples after a period of thirty days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected the minimum detection and reporting limit is less than 1% unless point counting is preformed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification

SEEML NVLAP Lab ID:201031-0

Form 8.0 Rev. 4 11/12/15



**SEEML Asbestos Chain-of-Custody Form**

506-A Laurens Rd, Greenville, SC 29607

Phone :(864)-233-3770, Fax :(864)-233-6589, www.seeml.com

NVLAP Lab ID: 201031-0

SEEML Ref #: 160527004-A		Lab ID: 003-005	
Company: F+R	Date Sampled: 5-20-16		
Project Manager: Kenneth Lauber	Project Name: 704 Howard St.		
Address: 18 Woods Lake Rd	Project Location: Spartanburg		
City, State, Zip: Greenville SC 29607	Project No: 65U-0055		
Phone: 864-918-1513	Analysis Requested/TAT (Circle One):		
Email Address: KLAUBER@FANDR.com	PLM TAT	*Same Day Next Day 2 Day 3 Day 4 Day <b>5 Day</b>	
	TEM TAT	**Next Day 2 Day 3 Day 4 Day 5 Day	

Sample ID	Description/ Location	Analysis Type	Comments
S-1	TSI - Elbow	PLM	
S-2	TSI - Run	PLM	
S-3	TSI - Run	PLM	
			<input checked="checked" type="checkbox"/> <b>APPROVED</b>

Relinquished By: <i>Kenneth Lauber</i>	Time/Date: 10:35 5/27/16	Received By: <i>Candace Ben</i>	Time/Date: 10:40 5/27/16
Relinquished By:	Time/Date:	Received By:	Time/Date:

Positive Stop Requested :

Analysis Types:	**TEM		PLM	
	Air Cassette	Bulk	Point Count	Bulk

\*Same Day TAT is only offered on Bulk PLM analysis.  
 \*\*TEM analysis is subcontracted; the requested TAT starts after PLM results have been submitted by SEEML, unless otherwise requested.  
 Form 2.0 Rev. 3 10/07/14

**Appendix D**

Laboratory Certificates of Accreditations  
Bulk Sample Chain of Custody Forms



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
**Date Received:** 1/16/2018  
**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VF-1 - A	12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
11800943PLM_1	floor tile				Dissolved
VF-1 - B	12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	6% Chrysotile		94% Other	Black Non Fibrous Heterogeneous
11800943PLM_218	mastic				Dissolved
VF-2 - A	12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Not Analyzed			
11800943PLM_2	floor tile				
VF-2 - B	12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Not Analyzed			
11800943PLM_219	mastic				
VF-3 - A	12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Not Analyzed			
11800943PLM_3	floor tile				
VF-3 - B	12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Not Analyzed			
11800943PLM_220	mastic				
ST-4	12" X 12" Cream with Green Cross Pattern Self Stick Tile	None Detected		100% Other	Cream, Green Non Fibrous Homogeneous
11800943PLM_4					Dissolved
ST-5	12" X 12" Cream with Green Cross Pattern Self Stick Tile	None Detected		100% Other	Cream, Green Non Fibrous Homogeneous
11800943PLM_5					Dissolved

**Disclaimer:** Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Byron Stroble (264)

Analyst

Approved Signatory



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
**Date Received:** 1/16/2018  
**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
ST-6	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Not Analyzed			
11800943PLM_6	TEM				
ST-7	12" X 12" Gold with Flower Pattern Self Stick Tile	None Detected		100% Other	Gold Non Fibrous Homogeneous
11800943PLM_7					Dissolved
ST-8	12" X 12" Gold with Flower Pattern Self Stick Tile	None Detected		100% Other	Gold Non Fibrous Homogeneous
11800943PLM_8					Dissolved
ST-9	12" X 12" Gold with Flower Pattern Self Stick Tile	Not Analyzed			
11800943PLM_9	TEM				
ST-10	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	None Detected		100% Other	Cream Non Fibrous Homogeneous
11800943PLM_10					Dissolved
ST-11	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	None Detected		100% Other	Cream Non Fibrous Homogeneous
11800943PLM_11					Dissolved
ST-12	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Not Analyzed			
11800943PLM_12	TEM				
ST-13	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	None Detected		100% Other	Gold Non Fibrous Homogeneous
11800943PLM_13					Dissolved

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Byron Stroble (264)

Analyst

Approved Signatory



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
ST-14	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	None Detected		100% Other	Gold Non Fibrous Homogeneous
11800943PLM_14					Dissolved
ST-15	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Not Analyzed			
11800943PLM_15	TEM				
ST-16 - A	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_16	mastic 1				Dissolved
ST-16 - B	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected	30% Cellulose	70% Other	Cream Non Fibrous Heterogeneous
11800943PLM_221	vinyl 1				Teased
ST-16 - C	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_222	mastic 2				Dissolved
ST-16 - D	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected	30% Cellulose	70% Other	Brown, Cream Non Fibrous Heterogeneous
11800943PLM_223	vinyl 2				Dissolved
ST-16 - E	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_224	mixed mastics 3				Dissolved
ST-17 - A	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_17	mastic 1				Dissolved

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Lab Sample ID	Lab Notes				Treatment
ST-17 - B	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected	30% Cellulose	70% Other	Cream Non Fibrous Heterogeneous
11800943PLM_225	vinyl 1				Teased
ST-17 - C	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_226	mastic 2				Dissolved
ST-17 - D	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected	30% Cellulose	70% Other	Brown, Cream Non Fibrous Heterogeneous
11800943PLM_227	vinyl 2				Teased
ST-17 - E	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_228	mixed mastics 3				Dissolved
ST-18 - A	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_18	mastic 1 - TEM				
ST-18 - B	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_229	vinyl 1 - TEM				
ST-18 - C	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_230	mastic 2 - TEM				
ST-18 - D	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_231	vinyl 2 - TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
ST-18 - E	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_232	mixed mastics 3 - TEM				
WB-19	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_19	wallboard only				Teased
WB-20 - A	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_20	wallboard				Teased
WB-20 - B	Gypsum Wallboard	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_233	joint compound				Teased
WB-21	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_21	wallboard only				Teased
WB-22	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_22	wallboard only				Teased
WB-23	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_23	wallboard only				Teased
WB-24 - A	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_24	wallboard				Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
WB-24 - B	Gypsum Wallboard	4% Chrysotile		96% Other	Gray Non Fibrous Heterogeneous
11800943PLM_234	joint compound				Teased
WB-25	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_25	wallboard only				Teased
WB-26	Gypsum Wallboard	None Detected	10% Cellulose	90% Other	Brown, White Non Fibrous Heterogeneous
11800943PLM_26	wallboard only				Teased
SF-27	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	15% Chrysotile	15% Cellulose	70% Other	Cream, Green Non Fibrous Heterogeneous
11800943PLM_27					Teased
SF-28	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_28					
SF-29	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Not Analyzed			
11800943PLM_29					
VF-30 - A	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_30	mastic 1				Dissolved
VF-30 - B	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	4% Chrysotile		96% Other	Tan Non Fibrous Homogeneous
11800943PLM_235	floor tile				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VF-30 - C	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	6% Chrysotile		94% Other	Black Non Fibrous Heterogeneous
11800943PLM_236	mastic 2				Dissolved
VF-31 - A	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_31	mastic 1				Dissolved
VF-31 - B	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Not Analyzed			
11800943PLM_237	floor tile				
VF-31 - C	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Not Analyzed			
11800943PLM_238	mastic 2				
VF-32 - A	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Not Analyzed			
11800943PLM_32	mastic 1 - TEM				
VF-32 - B	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Not Analyzed			
11800943PLM_239	floor tile				
VF-32 - C	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Not Analyzed			
11800943PLM_240	mastic 2				
CM-33	Carpet Mastic (Dark Blue Carpet)	None Detected		100% Other	Black, Yellow Non Fibrous Heterogeneous
11800943PLM_33	mixed mastics				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-34	Carpet Mastic (Dark Blue Carpet)	None Detected		100% Other	Black, Yellow Non Fibrous Heterogeneous
11800943PLM_34	mixed mastics				Dissolved
CM-35	Carpet Mastic (Dark Blue Carpet)	Not Analyzed			
11800943PLM_35	mixed mastics - TEM				
FL-36	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_36	mixed mastics				Dissolved
FL-37	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_37					Dissolved
FL-38	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Not Analyzed			
11800943PLM_38	mixed mastics - TEM				
CM-39	Carpet Mastic (Light Red Carpet Type 1)	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_39	mixed mastics				Dissolved
CM-40	Carpet Mastic (Light Red Carpet Type 1)	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_40	mixed mastics				Dissolved
CM-41	Carpet Mastic (Light Red Carpet Type 1)	Not Analyzed			
11800943PLM_41	mixed mastics - TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-42	Carpet Mastic (Light Beige Carpet)	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_42	mixed mastics				Dissolved
CM-43	Carpet Mastic (Light Beige Carpet)	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_43	mixed mastics				Dissolved
CM-44	Carpet Mastic (Light Beige Carpet)	Not Analyzed			
11800943PLM_44	mixed mastics - TEM				
SF-45 - A	Sheet Vinyl (Below Carpet)	3% Chrysotile		97% Other	Beige Non Fibrous Homogeneous
11800943PLM_45	floor tile - not sheet vinyl				Dissolved
SF-45 - B	Sheet Vinyl (Below Carpet)	2% Chrysotile		98% Other	Brown Non Fibrous Heterogeneous
11800943PLM_241	mastic				Dissolved
SF-46 - A	Sheet Vinyl (Below Carpet)	Not Analyzed			
11800943PLM_46	floor tile				
SF-46 - B	Sheet Vinyl (Below Carpet)	Not Analyzed			
11800943PLM_242	mastic				
SF-47 - A	Sheet Vinyl (Below Carpet)	Not Analyzed			
11800943PLM_47	floor tile				

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Lab Sample ID	Lab Notes				Treatment
SF-47 - B	Sheet Vinyl (Below Carpet)	Not Analyzed			
11800943PLM_243	mastic				
JC-48	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_48					Teased
JC-49	Joint Compound	4% Chrysotile		96% Other	Gray Non Fibrous Heterogeneous
11800943PLM_49					Teased
JC-50	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_50					Teased
JC-51	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_51					Teased
JC-52	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_52					Teased
JC-53	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_53					Teased
JC-54	Joint Compound	4% Chrysotile		96% Other	Gray Non Fibrous Heterogeneous
11800943PLM_54					Teased

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Lab Sample ID	Lab Notes				Treatment
CMU-55 - A	CMU Block	None Detected		100% Other	Beige Non Fibrous Heterogeneous
11800943PLM_55	surfacing				Teased
CMU-55 - B	CMU Block	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_244	cementitious layer				Crushed
CMU-56 - A	CMU Block	None Detected		100% Other	White Non Fibrous Heterogeneous
11800943PLM_56	surfacing				Teased
CMU-56 - B	CMU Block	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_245	cementitious layer				Crushed
CMU-57 - A	CMU Block	None Detected		100% Other	Beige Non Fibrous Heterogeneous
11800943PLM_57	surfacing				Teased
CMU-57 - B	CMU Block	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_246	cementitious layer				Crushed
M-58	Mortar	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_58					Crushed
M-59	Mortar	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_59					Crushed

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Lab Sample ID	Lab Notes				Treatment
M-60	Mortar	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_60					Crushed
VT-61 - A	Black 9" X 9" VFT / Mastic	6% Chrysotile		94% Other	Black Non Fibrous Homogeneous
11800943PLM_61	floor tile				Dissolved
VT-61 - B	Black 9" X 9" VFT / Mastic	5% Chrysotile		95% Other	Black Non Fibrous Heterogeneous
11800943PLM_247	mastic				Dissolved
VT-62 - A	Black 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_62	floor tile				
VT-62 - B	Black 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_248	mastic				
VT-63 - A	Black 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_63	floor tile				
VT-63 - B	Black 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_249	mastic				
VT-64	Brown 9" X 9" VFT / Mastic	3% Chrysotile		97% Other	Brown Non Fibrous Homogeneous
11800943PLM_64					Dissolved

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Lab Sample ID	Lab Notes				Treatment
VT-65	Brown 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_65					
VT-66	Brown 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_66					
VT-67 - A	Gray 9" X 9" VFT / Mastic	2% Chrysotile		98% Other	Gray Non Fibrous Homogeneous
11800943PLM_67	floor tile				Dissolved
VT-67 - B	Gray 9" X 9" VFT / Mastic	6% Chrysotile		94% Other	Black Non Fibrous Heterogeneous
11800943PLM_250	mastic				Dissolved
VT-68 - A	Gray 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_68	floor tile				
VT-68 - B	Gray 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_251	mastic				
VT-69 - A	Gray 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_69	floor tile				
VT-69 - B	Gray 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_252	mastic				

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Byron Stroble (264)

Analyst

Approved Signatory



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
**Date Received:** 1/16/2018  
**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VT-70 - A	White 9" X 9" VFT / Mastic	4% Chrysotile		96% Other	White Non Fibrous Homogeneous
11800943PLM_70	floor tile				Dissolved
VT-70 - B	White 9" X 9" VFT / Mastic	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_253	mastic				Dissolved
VT-71 - A	White 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_71	floor tile				
VT-71 - B	White 9" X 9" VFT / Mastic	None Detected		100% Other	Cream Non Fibrous Heterogeneous
11800943PLM_254	mastic				Dissolved
VT-72 - A	White 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_72	floor tile				
VT-72 - B	White 9" X 9" VFT / Mastic	Not Analyzed			
11800943PLM_255	mastic - TEM				
VT-73	Black with Cream Streaks VFT / Mastic	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
11800943PLM_73					Dissolved
VT-74	Black with Cream Streaks VFT / Mastic	Not Analyzed			
11800943PLM_74					

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VT-75	Black with Cream Streaks VFT / Mastic	Not Analyzed			
11800943PLM_75					
CM-76	Carpet Mastic (Beige Carpet Type 1)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_76					Dissolved
CM-77	Carpet Mastic (Beige Carpet Type 1)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_77					Dissolved
CM-78	Carpet Mastic (Beige Carpet Type 1)	Not Analyzed			
11800943PLM_78	TEM				
CM-79	Carpet Mastic (Beige Carpet Type 2)	None Detected		100% Other	Brown, Black Non Fibrous Heterogeneous
11800943PLM_79	mixed mastics				Dissolved
CM-80	Carpet Mastic (Beige Carpet Type 2)	None Detected		100% Other	Brown, Black Non Fibrous Heterogeneous
11800943PLM_80	mixed mastics				Dissolved
CM-81	Carpet Mastic (Beige Carpet Type 2)	Not Analyzed			
11800943PLM_81	mixed mastics - TEM				
CM-82	Carpet Mastic (Brown Carpet)	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_82	mixed mastics				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-83	Carpet Mastic (Brown Carpet)	None Detected		100% Other	Brown, Yellow Non Fibrous Heterogeneous
11800943PLM_83	mixed mastics				Dissolved
CM-84	Carpet Mastic (Brown Carpet)	Not Analyzed			
11800943PLM_84	mixed mastics - TEM				
ST-85	12" X 12" Grey & Green Diamond Self Stick Tile	None Detected		100% Other	Gray Non Fibrous Homogeneous
11800943PLM_85					Dissolved
ST-86	12" X 12" Grey & Green Diamond Self Stick Tile	None Detected		100% Other	Gray Non Fibrous Homogeneous
11800943PLM_86					Dissolved
ST-87	12" X 12" Grey & Green Diamond Self Stick Tile	Not Analyzed			
11800943PLM_87	TEM				
CM-88	Carpet Mastic (Beige Carpet Type 3)	None Detected		100% Other	Black, Yellow Non Fibrous Heterogeneous
11800943PLM_88	mixed mastics				Dissolved
CM-89	Carpet Mastic (Beige Carpet Type 3)	None Detected		100% Other	Black, Yellow Non Fibrous Heterogeneous
11800943PLM_89	mixed mastics				Dissolved
CM-90	Carpet Mastic (Beige Carpet Type 3)	Not Analyzed			
11800943PLM_90	mixed mastics - TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-91	Carpet Mastic (Dark Gray Carpet)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_91					Dissolved
CM-92	Carpet Mastic (Dark Gray Carpet)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_92					Dissolved
CM-93	Carpet Mastic (Dark Gray Carpet)	Not Analyzed			
11800943PLM_93	TEM				
CM-94	Carpet Mastic (Burgundy Carpet)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_94					Dissolved
CM-95	Carpet Mastic (Burgundy Carpet)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_95					Dissolved
CM-96	Carpet Mastic (Burgundy Carpet)	Not Analyzed			
11800943PLM_96	TEM				
VF-97	12" X 12" White w/ Beige Streaks VFT / Mastic	2% Chrysotile		98% Other	White Non Fibrous Homogeneous
11800943PLM_97					Dissolved
VF-98	12" X 12" White w/ Beige Streaks VFT / Mastic	Not Analyzed			
11800943PLM_98					

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VF-99	12" X 12" White w/ Beige Streaks VFT / Mastic	Not Analyzed			
11800943PLM_99					
CM-100	Carpet Mastic (Light Red Carpet Type 2)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_100					Dissolved
CM-101	Carpet Mastic (Light Red Carpet Type 2)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_101					Dissolved
CM-102	Carpet Mastic (Light Red Carpet Type 2)	Not Analyzed			
11800943PLM_102	TEM				
CM-103	Carpet Mastic (Blue Carpet Type 2)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_103					Dissolved
CM-104	Carpet Mastic (Blue Carpet Type 2)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_104					Dissolved
CM-105	Carpet Mastic (Blue Carpet Type 2)	Not Analyzed			
11800943PLM_105	TEM				
CM-106	Carpet Mastic (Red Carpet)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_106					Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-107	Carpet Mastic (Red Carpet)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_107					Dissolved
CM-108	Carpet Mastic (Red Carpet)	Not Analyzed			
11800943PLM_108	TEM				
CM-109	Carpet Mastic (Blue Carpet with Cream Specks)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_109					Dissolved
CM-100	Carpet Mastic (Blue Carpet with Cream Specks)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_110					Dissolved
CM-111	Carpet Mastic (Blue Carpet with Cream Specks)	Not Analyzed			
11800943PLM_111	TEM				
CM-112	Carpet Mastic (Blue Carpet Type 3)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_112					Dissolved
CM-113	Carpet Mastic (Blue Carpet Type 3)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_113					Dissolved
CM-114	Carpet Mastic (Blue Carpet Type 3)	Not Analyzed			
11800943PLM_114	TEM				

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-115	Carpet Mastic (Brown Carpet)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_115					Dissolved
CM-116	Carpet Mastic (Brown Carpet)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_116					Dissolved
CM-117	Carpet Mastic (Brown Carpet)	Not Analyzed			
11800943PLM_117	TEM				
CM-118	Mastic (Gray Blue Carpet)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_118					Dissolved
CM-119	Mastic (Gray Blue Carpet)	None Detected		100% Other	Tan Non Fibrous Heterogeneous
11800943PLM_119					Dissolved
CM-120	Mastic (Gray Blue Carpet)	Not Analyzed			
11800943PLM_120	TEM				
CT-121	1' X 1' Ceiling Tile	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Beige Fibrous Heterogeneous
11800943PLM_121					Teased, Ashed
CT-122	1' X 1' Ceiling Tile	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Beige Fibrous Heterogeneous
11800943PLM_122					Teased, Ashed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-123	1' X 1' Ceiling Tile	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Beige Fibrous Heterogeneous
11800943PLM_123					Teased, Ashed
IB-124	Insulation Backing (Black Coating)	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous
11800943PLM_124					Teased, Dissolved
IB-125	Insulation Backing (Black Coating)	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous
11800943PLM_125					Teased, Dissolved
IB-126	Insulation Backing (Black Coating)	Not Analyzed			
11800943PLM_126	TEM				
TC-127	Textured Ceiling	None Detected		100% Other	Beige Non Fibrous Heterogeneous
11800943PLM_127					Teased
TC-128	Textured Ceiling	None Detected		100% Other	Beige Non Fibrous Heterogeneous
11800943PLM_128					Teased
TC-129	Textured Ceiling	None Detected		100% Other	Beige Non Fibrous Heterogeneous
11800943PLM_129					Teased
CT-130	1' X 1' Ceiling Tile w/ Pinholes	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_130					Teased

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Lab Sample ID	Lab Notes				Treatment
CT-131	1' X 1' Ceiling Tile w/ Pinholes	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_131					Teased
CT-132	1' X 1' Ceiling Tile w/ Pinholes	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_132					Teased
CT-133	2' X 4' Ceiling Tile w/ Small & Large Holes	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_133			Teased, Ashed		
CT-134	2' X 4' Ceiling Tile w/ Small & Large Holes	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_134			Teased, Ashed		
CT-135	2' X 4' Ceiling Tile w/ Small & Large Holes	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_135			Teased, Ashed		
CT-136	2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_136			Teased, Ashed		
CT-137	2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_137			Teased, Ashed		
CT-138	2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_138			Teased, Ashed		

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-139	2' X 4' Ceiling Tile w/ White Outer Sheeting	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_139					Teased
CT-140	2' X 4' Ceiling Tile w/ White Outer Sheeting	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_140					Teased
CT-141	2' X 4' Ceiling Tile w/ White Outer Sheeting	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_141					Teased
CT-142	2' X 4' Ceiling Tile w/ Textured Outer Sheeting	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_142					Teased
CT-143	2' X 4' Ceiling Tile w/ Textured Outer Sheeting	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_143					Teased
CT-143-A	2' X 4' Ceiling Tile w/ Textured Outer Sheeting	None Detected	90% Cellulose	10% Other	Tan Fibrous Heterogeneous
11800943PLM_144					Teased
CT-144	2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_145			Teased, Ashed		
CT-145	2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_146			Teased, Ashed		

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CT-146	2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	None Detected	45% Cellulose 45% Mineral Wool	10% Other	Gray Fibrous Heterogeneous
11800943PLM_147					Teased, Ashed
FB-147 - A	Fiberboard with Square Pattern	None Detected	50% Cellulose	50% Other	Brown, White Fibrous Heterogeneous
11800943PLM_148	laminare				Ashed
FB-147 - B	Fiberboard with Square Pattern	None Detected		100% Other	Brown Non Fibrous Heterogeneous
11800943PLM_256	mastic				Dissolved
FB-148 - A	Fiberboard with Square Pattern	None Detected	50% Cellulose	50% Other	Brown, White Fibrous Heterogeneous
11800943PLM_149	laminare				Ashed
FB-148 - B	Fiberboard with Square Pattern	None Detected		100% Other	Brown Fibrous Heterogeneous
11800943PLM_257	mastic				Dissolved
FB-149 - A	Fiberboard with Square Pattern	Not Analyzed			
11800943PLM_150	laminare - TEM				
FB-149 - B	Fiberboard with Square Pattern	Not Analyzed			
11800943PLM_258	mastic - TEM				
M-150	Gray Mastic (Plastic w/ Paper Backing)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_151					Dissolved

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Byron Stroble (264)

Analyst

Approved Signatory



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
**Date Received:** 1/16/2018  
**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
M-151	Gray Mastic (Plastic w/ Paper Backing)	None Detected		100% Other	Yellow Non Fibrous Heterogeneous
11800943PLM_152					Dissolved
M-152	Gray Mastic (Plastic w/ Paper Backing)	Not Analyzed			
11800943PLM_153	TEM				
T-153	Duct Tape	None Detected		100% Other	Black Non Fibrous Heterogeneous
11800943PLM_154					Dissolved
T-154	Duct Tape	None Detected		100% Other	Black Non Fibrous Heterogeneous
11800943PLM_155					Dissolved
T-155	Duct Tape	Not Analyzed			
11800943PLM_156	TEM				
VF-156 - A	12" X 12" Black VFT / Mastic	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
11800943PLM_157	floor tile				Dissolved
VF-156 - B	12" X 12" Black VFT / Mastic	5% Chrysotile		95% Other	Black Non Fibrous Heterogeneous
11800943PLM_259	mastic				Dissolved
VF-157 - A	12" X 12" Black VFT / Mastic	Not Analyzed			
11800943PLM_158	floor tile				

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By Polarized Light Microscopy  
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18 Woods Lake Rd  
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**Attn:** Andrea LeCroy

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**Date Received:** 1/16/2018  
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**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
VF-157 - B	12" X 12" Black VFT / Mastic	Not Analyzed			
11800943PLM_260	mastic				
VF-158 - A	12" X 12" Black VFT / Mastic	Not Analyzed			
11800943PLM_159	floor tile				
VF-158 - B	12" X 12" Black VFT / Mastic	Not Analyzed			
11800943PLM_261	mastic				
VF-159	12" X 12" Brown VFT / Mastic	5% Chrysotile		95% Other	Brown Non Fibrous Homogeneous
11800943PLM_160					Dissolved
VF-160	12" X 12" Brown VFT / Mastic	Not Analyzed			
11800943PLM_161					
VF-161	12" X 12" Brown VFT / Mastic	Not Analyzed			
11800943PLM_162					
CS-162	Concrete Slab	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_163					Crushed
CS-163	Concrete Slab	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_164					Crushed

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By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
**Date Received:** 1/16/2018  
**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CS-164	Concrete Slab	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_165					Crushed
WG-165	Window Glazing	3% Chrysotile		97% Other	Beige Non Fibrous Heterogeneous
11800943PLM_166					Dissolved
WG-166	Window Glazing	Not Analyzed			
11800943PLM_167					
WG-167	Window Glazing	Not Analyzed			
11800943PLM_168					
B-168	White Boiler Jacket	20% Chrysotile	30% Cellulose	50% Other	White Fibrous Heterogeneous
11800943PLM_169					Teased
B-169	White Boiler Jacket	Not Analyzed			
11800943PLM_170					
B-170	White Boiler Jacket	Not Analyzed			
11800943PLM_171					
B-171	Red & White Insulation	20% Chrysotile		80% Other	White, Red Non Fibrous Heterogeneous
11800943PLM_172					Teased

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EPA Method: 600/R-93/116 and 600/M4-82-020



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Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
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**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
B-172	Red & White Insulation	Not Analyzed			
11800943PLM_173					
B-173	Red & White Insulation	Not Analyzed			
11800943PLM_174					
BG-174	Brick Grout	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_175					Crushed
BG-175	Brick Grout	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_176					Crushed
BG-176	Brick Grout	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_177					Crushed
C-177	Window Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
11800943PLM_178					Ashed
C-178	Window Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
11800943PLM_179					Ashed
C-179	Window Caulk	Not Analyzed			
11800943PLM_180	TEM				

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# Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and 600/M4-82-020



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**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
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**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CM-180	CMU Block	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_181					Crushed
CM-181	CMU Block	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_182					Crushed
CM-182	CMU Block	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_183					Crushed
M-183	Mortar	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_184					Crushed
M-184	Mortar	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_185					Crushed
M-185	Mortar	None Detected		100% Other	Gray Non Fibrous Heterogeneous
11800943PLM_186					Crushed
RV-186	Caulk	None Detected		100% Other	Gray, Tan Non Fibrous Heterogeneous
11800943PLM_187	mixed caulks				Ashed
RV-187	Caulk	None Detected		100% Other	Gray, Tan Non Fibrous Heterogeneous
11800943PLM_188	mixed caulks				Ashed

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EPA Method: 600/R-93/116 and 600/M4-82-020



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**Lab Order ID:** 11800943  
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**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
RV-188	Caulk	Not Analyzed			
11800943PLM_189	mixed caulks - TEM				
C-189	Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
11800943PLM_190					Ashed
C-190	Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
11800943PLM_191					Ashed
C-191	Caulk	Not Analyzed			
11800943PLM_192	TEM				
C-192	Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
11800943PLM_193					Ashed
C-193	Caulk	None Detected		100% Other	White Non Fibrous Homogeneous
11800943PLM_194					Ashed
C-194	Caulk	Not Analyzed			
11800943PLM_195	TEM				
BR-195 - A	Built Up Roofing Layers	None Detected	20% Fiber Glass	80% Other	White, Black Non Fibrous Heterogeneous
11800943PLM_196	membrane				Ashed

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EPA Method: 600/R-93/116 and 600/M4-82-020



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**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BR-195 - B	Built Up Roofing Layers	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous
11800943PLM_262	felt				Teased, Dissolved
BR-196 - A	Built Up Roofing Layers	None Detected	20% Fiber Glass	80% Other	White, Black Non Fibrous Heterogeneous
11800943PLM_197	membrane				Ashed
BR-196 - B	Built Up Roofing Layers	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous
11800943PLM_263	felt				Teased, Dissolved
BR-197 - A	Built Up Roofing Layers	Not Analyzed			
11800943PLM_198	membrane - TEM				
BR-197 - B	Built Up Roofing Layers	Not Analyzed			
11800943PLM_264	felt - TEM				
C-198	Caulk	5% Chrysotile		95% Other	Gray Non Fibrous Heterogeneous
11800943PLM_199					Dissolved
C-199	Caulk	Not Analyzed			
11800943PLM_200					
C-200	Caulk	Not Analyzed			
11800943PLM_201					

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# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11800943  
**Analysis ID:** 11800943\_PLM  
**Date Received:** 1/16/2018  
**Date Reported:** 1/22/2018

**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
SC-201	Surface Coating	3% Chrysotile	20% Cellulose	77% Other	Black, Silver Non Fibrous Heterogeneous
11800943PLM_202					Dissolved
SC-202	Surface Coating	3% Chrysotile	20% Cellulose	77% Other	Black, Silver Non Fibrous Heterogeneous
11800943PLM_203					Dissolved
SC-203	Surface Coating	3% Chrysotile	20% Cellulose	77% Other	Black, Silver Non Fibrous Heterogeneous
11800943PLM_204					Dissolved
SC-204	Surface Coating	3% Chrysotile	20% Cellulose	77% Other	Black, Silver Non Fibrous Heterogeneous
11800943PLM_205					Dissolved
SC-205	Surface Coating	4% Chrysotile	16% Cellulose	80% Other	Black, Silver Non Fibrous Heterogeneous
11800943PLM_206					Dissolved
SC-206	Surface Coating	Not Analyzed			
11800943PLM_207					
SC-207	Surface Coating	Not Analyzed			
11800943PLM_208					
BS-208	Brown Sealant	None Detected		100% Other	Brown Non Fibrous Heterogeneous
11800943PLM_209					Dissolved

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**Project:** 704 Howard Street

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
BS-209	Brown Sealant	None Detected		100% Other	Brown Non Fibrous Heterogeneous
11800943PLM_210					Dissolved
BS-210	Brown Sealant	Not Analyzed			
11800943PLM_211	TEM				
SC-211	Surface Coating	None Detected		100% Other	Silver Non Fibrous Heterogeneous
11800943PLM_212					Dissolved
SC-212	Surface Coating	None Detected		100% Other	Silver Non Fibrous Heterogeneous
11800943PLM_213					Dissolved
SC-213	Surface Coating	Not Analyzed			
11800943PLM_214	TEM				
SC-214	Roofing Shingle	None Detected	10% Fiber Glass	90% Other	Gray, Black Non Fibrous Heterogeneous
11800943PLM_215					Dissolved
SC-215	Roofing Shingle	None Detected	10% Fiber Glass	90% Other	Gray, Black Non Fibrous Heterogeneous
11800943PLM_216					Dissolved
SC-216	Roofing Shingle	Not Analyzed			
11800943PLM_217	TEM				

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Byron Stroble (264)

Analyst

Approved Signatory

11800943

<b>Client:</b>	Froehling and Robertson
<b>Contact:</b>	Andréa LeCroy
<b>Address:</b>	18 Woods Lake Road Greenville, SC
<b>Phone:</b>	864-271-2840
<b>Fax:</b>	864-271-8124
<b>Email:</b>	alecroy@fandr.com
<b>Project:</b>	704 Howard Street Asbestos Survey
<b>Client Notes:</b>	POSITIVE STOP ALL SAMPLES EXCEPT JOINT COMPOUND AND WALLBOARD SAVE THIRD NOB SAMPLES FOR TEM; PERFORM TEM FOLLOWING PLM ANALYSIS OF FIRST TWO SAMPLES STOP FIRST POSITIVE LAYER Highlighted Samples Only
<b>P.O. #:</b>	65V-0162
<b>Date Submitted:</b>	1/12/2018 17:00
<b>Analysis:</b>	PLM Bulk: EPA 600 / TEM CHATFIELD
<b>TurnAroundTime:</b>	5 Day

**PLEASE HOLD SAMPLES  
AND WAIT TO BEGIN  
ANALYSIS UNTIL I CALL TO  
GIVE THE GO AHEAD; AS  
WE ARE AWAITING  
AUTHORIZATION FOR  
ADDITIONAL SAMPLES;  
IF THERE ARE ANY  
QUESTIONS REGARDING  
THIS PROJECT PLEASE  
CALL DREA FOR  
CLARIFICATION AT  
864-434-0954 (CELL)**

Scientific  
Analytical  
Institute



**4604 Dundas Drive  
Greensboro, NC 27407  
Phone: 336.292.3888  
Fax: 336.292.3313  
Email: lab@sailab.com**

Sample Number	Data 1	Sample Description	Data 2
<<			
VF-1		12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Drill Hall
VF-2		12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Drill Hall
VF-3		12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Drill Hall
ST-4	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Recreation Room
ST-5	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Recreation Room

Relinquished By  
\_Andréa LeCroy 1/15/2018 5:00 PM

**Accepted**   
**Rejected**

Received By  
*B Baum* 1/16 10:30am

1180094B

ST-6	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Recreation Room
ST-7	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Gold with Flower Pattern Self Stick Tile	Recreation Room
ST-8	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Gold with Flower Pattern Self Stick Tile	Recreation Room
ST-9	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Gold with Flower Pattern Self Stick Tile	Recreation Room
ST-10	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Men's & Ladies Restrooms
ST-11	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Men's & Ladies Restrooms
ST-12	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Men's & Ladies Restrooms
ST-13	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Ladies Room
ST-14	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Ladies Room
ST-15	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Ladies Room
ST-16	<b>STOP FIRST POSITIVE LAYER</b>	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Restroom By Admin Office
ST-17	<b>STOP FIRST POSITIVE LAYER</b>	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Restroom By Admin Office
ST-18	<b>STOP FIRST POSITIVE LAYER</b>	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Restroom By Admin Office
WB-19		Gypsum Wallboard	
WB-20		Gypsum Wallboard	
WB-21		Gypsum Wallboard	
WB-22		Gypsum Wallboard	
WB-23		Gypsum Wallboard	
WB-24		Gypsum Wallboard	

Relinquished By  
 \_\_\_Andréa LeCroy 1/15/2018 5:00 PM

Received By

1180094B

WB-25		Gypsum Wallboard	
WB-26		Gypsum Wallboard	
SF-27	<b>STOP FIRST POSITIVE LAYER</b>	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Galley
SF-28	<b>STOP FIRST POSITIVE LAYER</b>	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Galley
SF-29	<b>STOP FIRST POSITIVE LAYER</b>	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Galley
VF-30		12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Halls
VF-31		12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Halls
VF-32		12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Halls
CM-33	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Blue Carpet)	Lounge
CM-34	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Blue Carpet)	Lounge
CM-35	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Blue Carpet)	Lounge
FL-36	<b>DO NOT TEST CARPET</b>	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Admin Office
FL-37	<b>DO NOT TEST CARPET</b>	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Admin Office
FL-38	<b>DO NOT TEST CARPET</b>	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Admin Office
CM-39	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 1)	Persl Training Office
CM-40	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 1)	Persl Training Office
CM-41	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 1)	Persl Training Office
CM-42	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Beige Carpet)	C.O.'s Office

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CM-43	TEST MASTIC ONLY	Carpet Mastic (Light Beige Carpet)	C.O.'s Office
CM-44	TEST MASTIC ONLY	Carpet Mastic (Light Beige Carpet)	C.O.'s Office
SF-45		Sheet Vinyl (Below Carpet)	C.O.'s Office
SF-46		Sheet Vinyl (Below Carpet)	C.O.'s Office
SF-47		Sheet Vinyl (Below Carpet)	C.O.'s Office
JC-48		Joint Compound	
JC-49		Joint Compound	
JC-50		Joint Compound	
JC-51		Joint Compound	
JC-52		Joint Compound	
JC-53		Joint Compound	
JC-54		Joint Compound	
CMU-55		CMU Block	
CMU-56		CMU Block	
CMU-57		CMU Block	
M-58		Mortar	
M-59		Mortar	
M-60		Mortar	

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VT-61		Black 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-62		Black 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-63	<b>Do Not Test Yellow Layer of Carpet Mastic</b>	Black 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-64	<b>TEST TILE ONLY (Same mastic: VT-61, VT,-62, VT-63)</b>	Brown 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-65	<b>TEST TILE ONLY (Same mastic: VT-61, VT,-62, VT-63)</b>	Brown 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-66	<b>TEST TILE ONLY (Same mastic: VT-61, VT,-62, VT-63)</b>	Brown 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-67		Gray 9" X 9" VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-68		Gray 9" X 9" VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-69	<b>Do Not Test Yellow Layer of Carpet Mastic</b>	Gray 9" X 9" VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-70		White 9" X 9" VFT / Mastic	Mop Closet & Storage Closet
VT-71		White 9" X 9" VFT / Mastic	Mop Closet & Storage Closet
VT-72		White 9" X 9" VFT / Mastic	Mop Closet & Storage Closet
VT-73	<b>TEST TILE ONLY (Same mastic: VT-67, VT,-68, VT-69)</b>	Black with Cream Streaks VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)

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VT-74	<b>TEST TILE ONLY</b> (Same mastic: VT-67, VT,-68, VT-69)	Black with Cream Streaks VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-75	<b>TEST TILE ONLY</b> (Same mastic: VT-67, VT,-68, VT-69)	Black with Cream Streaks VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
CM-76	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 1)	Radio
CM-77	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 1)	Radio
CM-78	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 1)	Radio
CM-79	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 2)	Office & MIC Room
CM-80	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 2)	Office & MIC Room
CM-81	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 2)	Office & MIC Room
CM-82	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Brown Carpet)	Supply
CM-83	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Brown Carpet)	Supply
CM-84	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Brown Carpet)	Supply
ST-85	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Grey & Green Diamond Self Stick Tile	Recreation Room
ST-86	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Grey & Green Diamond Self Stick Tile	Recreation Room
ST-87	<b>STOP FIRST POSITIVE LAYER</b>	12" X 12" Grey & Green Diamond Self Stick Tile	Recreation Room
CM-88	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 3)	Recruiting
CM-89	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 3)	Recruiting
CM-90	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Beige Carpet Type 3)	Recruiting

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CM-91	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Gray Carpet)	Library
CM-92	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Gray Carpet)	Library
CM-93	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Gray Carpet)	Library
CM-94	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Burgundy Carpet)	Two Offices Across From Drill Hall
CM-95	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Burgundy Carpet)	Two Offices Across From Drill Hall
CM-96	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Burgundy Carpet)	Two Offices Across From Drill Hall
VF-97	<b>DO NOT TEST CREAM MASTIC (SAME MASTIC AS CM-94, CM-95, CM-96)</b>	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across From Drill Hall
VF-98	<b>DO NOT TEST CREAM MASTIC (SAME MASTIC AS CM-94, CM-95, CM-96)</b>	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across From Drill Hall
VF-99	<b>DO NOT TEST CREAM MASTIC (SAME MASTIC AS CM-94, CM-95, CM-96)</b>	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across From Drill Hall
CM-100	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 2)	Office Across from Inst. Prep (VFT Below is same as Hall)
CM-101	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 2)	Office Across from Inst. Prep (VFT Below is same as Hall)
CM-102	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 2)	Office Across from Inst. Prep (VFT Below is same as Hall)
CM-103	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet Type 2)	Office & Classroom 5
CM-104	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet Type 2)	Office & Classroom 5
CM-105	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet Type 2)	Office & Classroom 5
CM-106	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Red Carpet)	Classroom 10
CM-107	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Red Carpet)	Classroom 10

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CM-108	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Red Carpet)	Classroom 10
CM-109	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet with Cream Specks)	Inst. Prep
CM-100	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet with Cream Specks)	Inst. Prep
CM-111	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet with Cream Specks)	Inst. Prep
CM-112	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet Type 3)	Office Beside Multimedia
CM-113	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet Type 3)	Office Beside Multimedia
CM-114	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Blue Carpet Type 3)	Office Beside Multimedia
CM-115	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Brown Carpet)	Multimedia Room
CM-116	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Brown Carpet)	Multimedia Room
CM-117	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Brown Carpet)	Multimedia Room
CM-118	<b>TEST MASTIC ONLY</b>	Mastic (Gray Blue Carpet)	CIC #1 & CIC #2
CM-119	<b>TEST MASTIC ONLY</b>	Mastic (Gray Blue Carpet)	CIC #1 & CIC #2
CM-120	<b>TEST MASTIC ONLY</b>	Mastic (Gray Blue Carpet)	CIC #1 & CIC #2
CT-121		1' X 1' Ceiling Tile	Walls in Attic Over Drill Hall Only
CT-122		1' X 1' Ceiling Tile	Walls in Attic Over Drill Hall Only
CT-123		1' X 1' Ceiling Tile	Walls in Attic Over Drill Hall Only
IB-124	<b>Do Not Test Insulation</b>	Insulation Backing (Black Coating)	Ceiling of Attic Over Drill Hall
IB-125	<b>Do Not Test Insulation</b>	Insulation Backing (Black Coating)	Ceiling of Attic Over Drill Hall

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IB-126	<b>Do Not Test Insulation</b>	Insulation Backing (Black Coating)	Ceiling of Attic Over Drill Hall
TC-127		Textured Ceiling	Recreation Room Only
TC-128		Textured Ceiling	Recreation Room Only
TC-129		Textured Ceiling	Recreation Room Only
CT-130		1' X 1' Ceiling Tile w/ Pinholes	Men's Room Only
CT-131		1' X 1' Ceiling Tile w/ Pinholes	Men's Room Only
CT-132		1' X 1' Ceiling Tile w/ Pinholes	Men's Room Only
CT-133		2' X 4' Ceiling Tile w/ Small & Large Holes	Halls / Drill Hall / Various Offices
CT-134		2' X 4' Ceiling Tile w/ Small & Large Holes	Halls / Drill Hall / Various Offices
CT-135		2' X 4' Ceiling Tile w/ Small & Large Holes	Halls / Drill Hall / Various Offices
CT-136		2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	Halls / Drill Hall / Various Offices
CT-137		2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	Halls / Drill Hall / Various Offices
CT-138		2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	Halls / Drill Hall / Various Offices
CT-139		2' X 4' Ceiling Tile w/ White Outer Sheeting	Lounge & Recruiting
CT-140		2' X 4' Ceiling Tile w/ White Outer Sheeting	Lounge & Recruiting
CT-141		2' X 4' Ceiling Tile w/ White Outer Sheeting	Lounge & Recruiting
CT-142		2' X 4' Ceiling Tile w/ Textured Outer Sheeting	Library Only
CT-143		2' X 4' Ceiling Tile w/ Textured Outer Sheeting	Library Only

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CT-143-A		2' X 4' Ceiling Tile w/ Textured Outer Sheeting	Library Only
CT-144		2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	Limited Areas, Replacement Tile
CT-145		2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	Limited Areas, Replacement Tile
CT-146		2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	Limited Areas, Replacement Tile
FB-147		Fiberboard with Square Pattern	Walls in Kitchen & Women's Room
FB-148		Fiberboard with Square Pattern	Walls in Kitchen & Women's Room
FB-149		Fiberboard with Square Pattern	Walls in Kitchen & Women's Room
M-150	<b>TEST MASTIC ONLY - Do Not Test Paper</b>	Gray Mastic (Plastic w/ Paper Backing)	Restroom By Admin Office
M-151	<b>TEST MASTIC ONLY - Do Not Test Paper</b>	Gray Mastic (Plastic w/ Paper Backing)	Restroom By Admin Office
M-152	<b>TEST MASTIC ONLY - Do Not Test Paper</b>	Gray Mastic (Plastic w/ Paper Backing)	Restroom By Admin Office
T-153		Duct Tape	HVAC Unit in 2nd Deck
T-154		Duct Tape	HVAC Unit in 2nd Deck
T-155		Duct Tape	HVAC Unit in 2nd Deck
VF-156		12" X 12" Black VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-157		12" X 12" Black VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-158		12" X 12" Black VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)

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VF-159	<b>DO NOT TEST MASTIC (SAME AS VF-157, VF-158, VF-159)</b>	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-160	<b>DO NOT TEST MASTIC (SAME AS VF-157, VF-158, VF-159)</b>	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-161	<b>DO NOT TEST MASTIC (SAME AS VF-157, VF-158, VF-159)</b>	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
CS-162		Concrete Slab	Building Slab-On-Grade
CS-163		Concrete Slab	Building Slab-On-Grade
CS-164		Concrete Slab	Building Slab-On-Grade
WG-165		Window Glazing	Windows in Machine Shop / Main Propulsion
WG-166		Window Glazing	Windows in Machine Shop / Main Propulsion
WG-167		Window Glazing	Windows in Machine Shop / Main Propulsion
B-168	<b>STOP FIRST POSITIVE LAYER</b>	White Boiler Jacket	Boiler & Adjoining Pipes
B-169	<b>STOP FIRST POSITIVE LAYER</b>	White Boiler Jacket	Boiler & Adjoining Pipes
B-170	<b>STOP FIRST POSITIVE LAYER</b>	White Boiler Jacket	Boiler & Adjoining Pipes
B-171	<b>STOP FIRST POSITIVE LAYER</b>	Red & White Insulation	Around Boiler Door
B-172	<b>STOP FIRST POSITIVE LAYER</b>	Red & White Insulation	Around Boiler Door
B-173	<b>STOP FIRST POSITIVE LAYER</b>	Red & White Insulation	Around Boiler Door
BG-174		Brick Grout	Chimney, Boiler Room Walls, Front Entrance

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BG-175		Brick Grout	Chimney, Boiler Room Walls, Front Entrance
BG-176		Brick Grout	Chimney, Boiler Room Walls, Front Entrance
C-177		Window Caulk	Building Windows
C-178		Window Caulk	Building Windows
C-179		Window Caulk	Building Windows
CM-180		CMU Block	Storage Building
CM-181		CMU Block	Storage Building
CM-182		CMU Block	Storage Building
M-183		Mortar	Storage Building
M-184		Mortar	Storage Building
M-185		Mortar	Storage Building
RV-186	<b>STOP FIRST POSITIVE LAYER</b>	Caulk	Roof Vent
RV-187	<b>STOP FIRST POSITIVE LAYER</b>	Caulk	Roof Vent
RV-188	<b>STOP FIRST POSITIVE LAYER</b>	Caulk	Roof Vent
C-189		Caulk	Flashing on Parapet Wall
C-190		Caulk	Flashing on Parapet Wall
C-191		Caulk	Flashing on Parapet Wall

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C-192		Caulk	Roof Flashing
C-193		Caulk	Roof Flashing
C-194		Caulk	Roof Flashing
BR-195	DO NOT TEST FOAM	Built Up Roofing Layers	
BR-196	DO NOT TEST FOAM	Built Up Roofing Layers	
BR-197	DO NOT TEST FOAM	Built Up Roofing Layers	
C-198		Caulk	Seams of Building Walls, Isolated Areas
C-199		Caulk	Seams of Building Walls, Isolated Areas
C-200		Caulk	Seams of Building Walls, Isolated Areas
SC-201		Surface Coating	Metal Roof
SC-202		Surface Coating	Metal Roof
SC-203		Surface Coating	Metal Roof
SC-204		Surface Coating	Metal Roof
SC-205		Surface Coating	Metal Roof
SC-206		Surface Coating	Metal Roof
SC-207		Surface Coating	Metal Roof
BS-208	TEST BROWN COATING ONLY	Brown Sealant	Seams of Built-Up Roof - East Side Only
BS-209	TEST BROWN COATING ONLY	Brown Sealant	Seams of Built-Up Roof - East Side Only
BS-210	TEST BROWN COATING ONLY	Brown Sealant	Seams of Built-Up Roof - East Side Only

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SC-211		Surface Coating	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building
SC-212		Surface Coating	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building
SC-213		Surface Coating	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building
RS-214		Roofing Shingle	STORAGE Bldg.
RS-215		Roofing Shingle	STORAGE Bldg.
RS-216		Roofing Shingle	STORAGE Bldg.



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11803329  
**Analysis ID:** 11803329\_PLM  
**Date Received:** 2/9/2018  
**Date Reported:** 2/9/2018

**Project:** 704 Howard Street Spartanburg, SC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
CMU-217	Surfacing (CMU block)	None Detected		100% Other	Gray, Tan Non Fibrous Heterogeneous
11803329PLM_1					Dissolved, Crushed
CMU-218	Surfacing (CMU block)	None Detected		100% Other	Gray, Tan Non Fibrous Heterogeneous
11803329PLM_2					Dissolved, Crushed
CMU-219	Surfacing (CMU block)	None Detected		100% Other	Gray, Tan Non Fibrous Heterogeneous
11803329PLM_3					Dissolved, Crushed
CMU-220	Surfacing (CMU block)	None Detected		100% Other	Gray, Tan Non Fibrous Heterogeneous
11803329PLM_4					Dissolved, Crushed

**Disclaimer:** Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bart Huber (4)

Analyst

Approved Signatory



**Scientific Analytical Institute**  
 4604 Dundas Dr. Greensboro, NC 27407  
 Phone: 336.292.3888 Fax: 336.292.3313  
 www.sailab.com lab@sailab.com

Lab Use Only  
 Lab Order ID: 11803329  
 Client Code: \_\_\_\_\_

Company Contact Information	
Company: FROELINGS AND ROBERTSON	Contact: A. LeCroy
Address: 18 WOODS LAKE RD GREENVILLE, SC 29607	Phone <input checked="" type="checkbox"/> : 864-704-1210 Fax <input type="checkbox"/> : Email <input type="checkbox"/> : alecroy@fandr.com

Asbestos Test Types	
PLM EPA 600/R-93/116 (PLM)	<input checked="" type="checkbox"/>
Positive stop	<input checked="" type="checkbox"/>
PLM Point Count 400 (PT4)	<input type="checkbox"/>
PLM Point Count 1000 (PTM)	<input type="checkbox"/>
PCM NIOSH 7400-A Rules (PCM)	<input type="checkbox"/>
B Rules (PCB) <input type="checkbox"/> TWA (PTA) <input type="checkbox"/>	
TEM AHERA (AHE)	<input type="checkbox"/>
TEM Level II (LII)	<input type="checkbox"/>
TEM NIOSH 7402 (TNI)	<input type="checkbox"/>
TEM Bulk Qualitative (TBL)	<input type="checkbox"/>
TEM Bulk Chatfield (TBS)	<input type="checkbox"/>
TEM Bulk Quantitative (TBQ)	<input type="checkbox"/>
TEM Wipe ASTM D6480-05	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2 (TW1)	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Billing/Invoice Information	Turn Around Times	
Company: FROELINGS AND ROBERTSON	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: ANDREW LeCROY	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: 18 WOODS LAKE RD. GREENVILLE, SC	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/>	144+ Hours <input type="checkbox"/>

PO Number: 65V-0162  
 Project Name/Number: 704 HOWARD STREET  
 SPARTANBURG, SC

Sample ID #	Volume/Area	Comments
CMU-217	EXTERIOR	TEST
CMU-218	CMU	SURFACE
CMU-219	WALLS	COATING
CMU-220		ONLY
		(SAME AS CMU-55, CMU-56, CMU-57)
		LAB ORDER # 11800943
	Accepted <input checked="" type="checkbox"/>	DO NOT TEST CEMENTITIOUS LAYER
	Rejected <input type="checkbox"/>	

Total # of Samples \_\_\_\_\_

Relinquished by	Date/Time	Received by	Date/Time
Andrew LeCroy	2/8/18 3:30pm	J. Hauler	2/8/18 10:30am



# Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative  
Chatfield SOP 1988-02 Rev. 1

**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11801288

**Analysis ID:** 11801288\_TB

**Date Received:** 1/22/2018

**Date Reported:** 1/29/2018

**Project:** 704 Howard Street Asbestos Survey

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
ST-6	12" X 12" Cream with Green Cross Pattern Self Stick Tile	15%	81%	None Detected	
11801288TBS_1					
ST-9	12" X 12" Gold with Flower Pattern Self Stick Tile	21%	79%	None Detected	
11801288TBS_2					
ST-12	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	13%	86%	None Detected	
11801288TBS_3					
ST-15	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	18%	81%	None Detected	
11801288TBS_4					
ST-18 - A	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	79%	-	None Detected	
11801288TBS_5	<i>mastic 1</i>				
ST-18 - B	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	68%	-	None Detected	
11801288TBS_6	<i>vinyl 1</i>				

Disclaimer: This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

Russell Shelton (43)

Approved Signatory

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



# Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative  
Chatfield SOP 1988-02 Rev. 1

**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11801288

**Analysis ID:** 11801288\_TB

**Date Received:** 1/22/2018

**Date Reported:** 1/29/2018

**Project:** 704 Howard Street Asbestos Survey

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
<i>Lab Sample ID</i>	<i>Lab Notes</i>				
ST-18 - C	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	49%	-	None Detected	
11801288TBS_7	mastic 2				
ST-18 - D	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	72%	-	None Detected	
11801288TBS_8	vinyl 2				
ST-18 - E	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	50.0%	-	None Detected	
11801288TBS_9	mixed mastics				
VF-32	12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	60.0%	-	None Detected	
11801288TBS_10	yellow mastic				
CM-35	Carpet Mastic (Dark Blue Carpet)	65%	-	None Detected	
11801288TBS_11	mastic				
FL-38	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	27%	-	None Detected	
11801288TBS_12	mastic				

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Russell Shelton (43)

**Analyst**

**Approved Signatory**

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



# Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative  
Chatfield SOP 1988-02 Rev. 1

**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11801288

**Analysis ID:** 11801288\_TB

**Date Received:** 1/22/2018

**Date Reported:** 1/29/2018

**Project:** 704 Howard Street Asbestos Survey

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
CM-41	Carpent Mastic (Light Red Carpet Type 1)	43%	-	None Detected	
11801288TBS_13	<i>mastic</i>				
CM-44	Carpent Mastic (Light Beige Carpet)	48%	-	None Detected	
11801288TBS_14	<i>mastic</i>				
VT-72	White 9" X 9" VFT / Mastic	60.0%	-	None Detected	
11801288TBS_15	<i>yellow mastic</i>				
CM-78	Carpent Mastic (Beige Carpet Type 1)	71%	-	None Detected	
11801288TBS_16	<i>mastic</i>				
CM-81	Carpent Mastic (Beige Carpet Type 2)	51%	-	None Detected	
11801288TBS_17	<i>mastic</i>				
CM-84	Carpent Mastic (Brown Carpet)	48%	-	None Detected	
11801288TBS_18	<i>mastic</i>				

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**Project:** 704 Howard Street Asbestos Survey

**Date Reported:** 1/29/2018

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
ST-87	12" X 12" Grey & Green Diamond Self Stick Tile	15%	-	None Detected	
11801288TBS_19	mastic				
CM-90	Carpet Mastic (Beige Carpet Type 3)	41%	-	None Detected	
11801288TBS_20	mastic				
CM-93	Carpet Mastic (Dark Gray Carpet)	51%	-	None Detected	
11801288TBS_21	mastic				
CM-96	Carpet Mastic (Burgundy Carpet)	50.0%	-	None Detected	
11801288TBS_22	mastic				
CM-102	Carpet Mastic (Light Red Carpet Type 2)	55%	-	None Detected	
11801288TBS_23	mastic				
CM-105	Carpet Mastic (Blue Carpet Type 2)	65%	-	None Detected	
11801288TBS_24	mastic				

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**Date Received:** 1/22/2018

**Date Reported:** 1/29/2018

**Project:** 704 Howard Street Asbestos Survey

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
Lab Sample ID	Lab Notes	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
<b>CM-108</b>	<b>Carpet Mastic (Red Carpet)</b>	<b>56%</b>	-	<b>None Detected</b>	
11801288TBS_25	<i>mastic</i>				
<b>CM-111</b>	<b>Carpet Mastic (Blue Carpet with Cream Specks)</b>	<b>46%</b>	-	<b>None Detected</b>	
11801288TBS_26	<i>mastic</i>				
<b>CM-114</b>	<b>Carpet Mastic (Blue Carpet Type 3)</b>	<b>60.%</b>	-	<b>None Detected</b>	
11801288TBS_27	<i>mastic</i>				
<b>CM-117</b>	<b>Carpet Mastic (Brown Carpet)</b>	<b>65%</b>	-	<b>None Detected</b>	
11801288TBS_28	<i>mastic</i>				
<b>CM-120</b>	<b>Mastic (Gray Blue Carpet)</b>	<b>65%</b>	-	<b>None Detected</b>	
11801288TBS_29	<i>mastic</i>				
<b>IB-126</b>	<b>Insulation Backing (Black Coating)</b>	<b>79%</b>	-	<b>None Detected</b>	
11801288TBS_30					

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**Approved Signatory**



# Bulk Asbestos Analysis by Transmission Electron Microscopy

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**Customer:** Froehling & Robertson  
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Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11801288

**Analysis ID:** 11801288\_TB

**Date Received:** 1/22/2018

**Project:** 704 Howard Street Asbestos Survey

**Date Reported:** 1/29/2018

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	(Wt. %)	(Wt. %)	(Wt. %)	(Wt. %)
<b>FB-149 - A</b>	<b>Fiberboard with Square Pattern</b>	99%	-	<b>None Detected</b>	
<i>11801288TBS_31</i>	<i>laminate</i>				
<b>FB-149 - B</b>	<b>Fiberboard with Square Pattern</b>	65%	-	<b>None Detected</b>	
<i>11801288TBS_32</i>	<i>mastic</i>				
<b>M-152</b>	<b>Gray Mastic (Plastic w/ Paper Backing)</b>	55%	-	<b>None Detected</b>	
<i>11801288TBS_33</i>					
<b>T-155</b>	<b>Duct Tape</b>	57%	-	<b>None Detected</b>	
<i>11801288TBS_34</i>					
<b>C-179</b>	<b>Window Caulk</b>	29%	-	<b>None Detected</b>	
<i>11801288TBS_35</i>					
<b>RV-188</b>	<b>Caulk</b>	59%	-	<b>None Detected</b>	
<i>11801288TBS_36</i>					

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**Analyst**

Scientific Analytical Institute, Inc.



\_\_\_\_\_  
**Approved Signatory**

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# Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative  
Chatfield SOP 1988-02 Rev. 1

**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11801288

**Analysis ID:** 11801288\_TB

**Date Received:** 1/22/2018

**Date Reported:** 1/29/2018

**Project:** 704 Howard Street Asbestos Survey

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
<b>C-191</b>	<b>Caulk</b>	57%	-	None Detected	
<i>11801288TBS_37</i>					
<b>C-194</b>	<b>Caulk</b>	62%	-	None Detected	
<i>11801288TBS_38</i>					
<b>BR-196 - A</b>	<b>Built Up Roofing Layers</b>	83%	-	None Detected	
<i>11801288TBS_39</i>	<i>membrane</i>				
<b>BR-196 - B</b>	<b>Built Up Roofing Layers</b>	88%	-	None Detected	
<i>11801288TBS_40</i>	<i>felt</i>				
<b>BS-210</b>	<b>Brown Sealant</b>	81%	-	None Detected	
<i>11801288TBS_41</i>	<i>brown coating</i>				
<b>SC-213</b>	<b>Surface Coating</b>	39%	-	None Detected	
<i>11801288TBS_42</i>					

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Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



# Bulk Asbestos Analysis by Transmission Electron Microscopy

**Semi-Quantitative  
Chatfield SOP 1988-02 Rev. 1**

**Customer:** Froehling & Robertson  
18 Woods Lake Rd  
Greenville, SC 29607

**Attn:** Andrea LeCroy

**Lab Order ID:** 11801288

**Analysis ID:** 11801288\_TB

**Date Received:** 1/22/2018

**Date Reported:** 1/29/2018

**Project:** 704 Howard Street Asbestos Survey

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
<b>SC-216</b>	<b>Roofing Shingle</b>	<b>31%</b>	<b>-</b>	<b>None Detected</b>	
<i>11801288TBS_43</i>					

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**Analyst**

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**Approved Signatory**

~~11800943~~  
11801288

Client: Froehling and Robertson  
 Contact: Andréa LeCroy  
 Address: 18 Woods Lake Road Greenville, SC  
 Phone: 864-271-2840  
 Fax: 864-271-8124  
 Email: alecroy@fandr.com

Project: 704 Howard Street  
 Asbestos Survey

Client Notes: POSITIVE STOP ALL SAMPLES EXCEPT JOINT COMPOUND AND WALLBOARD  
 SAVE THIRD POS. SAMPLES FOR TEM PERFORM TEM HOLD DRAIN PLM ANALYSIS OF FIRST TWO SAMPLES  
 STOP FIRST POSITIVE LAYER  
 Highlighted Samples Only

P.O. #: 65V-0162  
 Date Submitted: 1/12/2018 17:00

Analysis: PLM Bulk: EPA 600 / TEM CHATFIELD  
 TurnAroundTime: 5 Day

**PLEASE HOLD SAMPLES AND WAIT TO BEGIN ANALYSIS UNTIL I CALL TO GIVE THE GO AHEAD; AS WE ARE AWAITING AUTHORIZATION FOR ADDITIONAL SAMPLES; IF THERE ARE ANY QUESTIONS REGARDING THIS PROJECT PLEASE CALL DREA FOR CLARIFICATION AT 864-434-0954 (CELL)**

Scientific Analytical Institute



4604 Dundas Drive  
 Greensboro, NC 27407  
 Phone: 336.292.3888  
 Fax: 336.292.3313  
 Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
VF-1		12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Drill Hall
VF-2		12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Drill Hall
VF-3		12" X 12" Beige with Brown Streaks Vinyl Floor Tile (VFT) / Mastic	Drill Hall
ST-4	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Recreation Room
ST-5	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Recreation Room

Relinquished By  
 \_\_\_Andréa LeCroy 1/15/2018 5:00 PM

Accepted   
 Rejected

Received By  
 [Signature] 1/16 10:30am

11801288  
~~11800943~~

ST-6	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Green Cross Pattern Self Stick Tile	Recreation Room
ST-7	STOP FIRST POSITIVE LAYER	12" X 12" Gold with Flower Pattern Self Stick Tile	Recreation Room
ST-8	STOP FIRST POSITIVE LAYER	12" X 12" Gold with Flower Pattern Self Stick Tile	Recreation Room
ST-9	STOP FIRST POSITIVE LAYER	12" X 12" Gold with Flower Pattern Self Stick Tile	Recreation Room
ST-10	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Men's & Ladies Restrooms
ST-11	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Men's & Ladies Restrooms
ST-12	STOP FIRST POSITIVE LAYER	12" X 12" Cream with Beige & Blue Squares Self Stick Tile	Men's & Ladies Restrooms
ST-13	STOP FIRST POSITIVE LAYER	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Ladies Room
ST-14	STOP FIRST POSITIVE LAYER	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Ladies Room
ST-15	STOP FIRST POSITIVE LAYER	12" X 12" Gold & Brown Floral Pattern Self Stick Tile	Ladies Room
ST-16	STOP FIRST POSITIVE LAYER	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Restroom By Admin Office
ST-17	STOP FIRST POSITIVE LAYER	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Restroom By Admin Office
ST-18	STOP FIRST POSITIVE LAYER	Cream Square w/ Blue Pattern Vinyl Sheet Flooring	Restroom By Admin Office
WB-19		Gypsum Wallboard	
WB-20		Gypsum Wallboard	
WB-21		Gypsum Wallboard	
WB-22		Gypsum Wallboard	
WB-23		Gypsum Wallboard	
WB-24		Gypsum Wallboard	

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 Andrea LeCroy 1/15/2018 5:00 PM

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WB-25		Gypsum Wallboard	
WB-26		Gypsum Wallboard	
SF-27	<b>STOP FIRST POSITIVE LAYER</b>	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Galley
SF-28	<b>STOP FIRST POSITIVE LAYER</b>	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Galley
SF-29	<b>STOP FIRST POSITIVE LAYER</b>	Cream w/ Green Trim Hexagon Vinyl Sheet Flooring	Galley
VF-30		12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Halls
VF-31		12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Halls
VF-32		12" X 12" Tan VFT / Mastic with Top Layer of Carpet Mastic	Halls
CM-33	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Blue Carpet)	Lounge
CM-34	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Blue Carpet)	Lounge
CM-35	<b>STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY</b>	Carpet Mastic (Dark Blue Carpet)	Lounge
FL-36	<b>DO NOT TEST CARPET</b>	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Admin Office
FL-37	<b>DO NOT TEST CARPET</b>	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Admin Office
FL-38	<b>DO NOT TEST CARPET</b>	Carpet Mastic (Brown Carpet) & Sheet Flooring Layer	Admin Office
CM-39	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 1)	Persl Training Office
CM-40	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 1)	Persl Training Office
CM-41	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Red Carpet Type 1)	Persl Training Office
CM-42	<b>TEST MASTIC ONLY</b>	Carpet Mastic (Light Beige Carpet)	C.O.'s Office

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CM-43	TEST MASTIC ONLY	Carpet Mastic (Light Beige Carpet)	C.O.'s Office
CM-44	TEST MASTIC ONLY	Carpet Mastic (Light Beige Carpet)	C.O.'s Office
SF-45		Sheet Vinyl (Below Carpet)	C.O.'s Office
SF-46		Sheet Vinyl (Below Carpet)	C.O.'s Office
SF-47		Sheet Vinyl (Below Carpet)	C.O.'s Office
JC-48		Joint Compound	
JC-49		Joint Compound	
JC-50		Joint Compound	
JC-51		Joint Compound	
JC-52		Joint Compound	
JC-53		Joint Compound	
JC-54		Joint Compound	
CMU-55		CMU Block	
CMU-56		CMU Block	
CMU-57		CMU Block	
M-58		Mortar	
M-59		Mortar	
M-60		Mortar	

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VT-61		Black 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-62		Black 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-63	<b>Do Not Test Yellow Layer of Carpet Mastic</b>	Black 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-64	<b>TEST TILE ONLY (Same mastic: VT-61, VT-62, VT-63)</b>	Brown 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-65	<b>TEST TILE ONLY (Same mastic: VT-61, VT-62, VT-63)</b>	Brown 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-66	<b>TEST TILE ONLY (Same mastic: VT-61, VT-62, VT-63)</b>	Brown 9" X 9" VFT / Mastic	Base Flooring Layer Multiple Locations (Black and Brown VFT Checkerboard Pattern)
VT-67		Gray 9" X 9" VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-68		Gray 9" X 9" VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-69	<b>Do Not Test Yellow Layer of Carpet Mastic</b>	Gray 9" X 9" VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-70		White 9" X 9" VFT / Mastic	Mop Closet & Storage Closet
VT-71		White 9" X 9" VFT / Mastic	Mop Closet & Storage Closet
VT-72		White 9" X 9" VFT / Mastic	Mop Closet & Storage Closet
VT-73	<b>TEST TILE ONLY (Same mastic: VT-67, VT-68, VT-69)</b>	Black with Cream Streaks VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)

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VT-74	TEST TILE ONLY (Same mastic: VT-67, VT,-68, VT-69)	Black with Cream Streaks VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
VT-75	TEST TILE ONLY (Same mastic: VT-67, VT,-68, VT-69)	Black with Cream Streaks VFT / Mastic	Base Flooring Layer (Black w/ Cream Streaks and Gray Checkerboard Pattern)
CM-76	TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 1)	Radio
CM-77	TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 1)	Radio
CM-78	TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 1)	Radio
CM-79	TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 2)	Office & MIC Room
CM-80	TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 2)	Office & MIC Room
CM-81	TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 2)	Office & MIC Room
CM-82	TEST MASTIC ONLY	Carpet Mastic (Brown Carpet)	Supply
CM-83	TEST MASTIC ONLY	Carpet Mastic (Brown Carpet)	Supply
CM-84	TEST MASTIC ONLY	Carpet Mastic (Brown Carpet)	Supply
ST-85	STOP FIRST POSITIVE LAYER	12" X 12" Grey & Green Diamond Self Stick Tile	Recreation Room
ST-86	STOP FIRST POSITIVE LAYER	12" X 12" Grey & Green Diamond Self Stick Tile	Recreation Room
ST-87	STOP FIRST POSITIVE LAYER	12" X 12" Grey & Green Diamond Self Stick Tile	Recreation Room
CM-88	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 3)	Recruiting
CM-89	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 3)	Recruiting
CM-90	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Beige Carpet Type 3)	Recruiting

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CM-91	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Dark Gray Carpet)	Library
CM-92	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Dark Gray Carpet)	Library
CM-93	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Dark Gray Carpet)	Library
CM-94	TEST MASTIC ONLY	Carpet Mastic (Burgundy Carpet)	Two Offices Across From Drill Hall
CM-95	TEST MASTIC ONLY	Carpet Mastic (Burgundy Carpet)	Two Offices Across From Drill Hall
CM-96	TEST MASTIC ONLY	Carpet Mastic (Burgundy Carpet)	Two Offices Across From Drill Hall
VF-97	DO NOT TEST CREAM MASTIC (SAME MASTIC AS CM-94, CM-95, CM-96)	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across From Drill Hall
VF-98	DO NOT TEST CREAM MASTIC (SAME MASTIC AS CM-94, CM-95, CM-96)	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across From Drill Hall
VF-99	DO NOT TEST CREAM MASTIC (SAME MASTIC AS CM-94, CM-95, CM-96)	12" X 12" White w/ Beige Streaks VFT / Mastic	Two Offices Across From Drill Hall
CM-100	TEST MASTIC ONLY	Carpet Mastic (Light Red Carpet Type 2)	Office Across from Inst. Prep (VFT Below is same as Hall)
CM-101	TEST MASTIC ONLY	Carpet Mastic (Light Red Carpet Type 2)	Office Across from Inst. Prep (VFT Below is same as Hall)
CM-102	TEST MASTIC ONLY	Carpet Mastic (Light Red Carpet Type 2)	Office Across from Inst. Prep (VFT Below is same as Hall)
CM-103	TEST MASTIC ONLY	Carpet Mastic (Blue Carpet Type 2)	Office & Classroom 5
CM-104	TEST MASTIC ONLY	Carpet Mastic (Blue Carpet Type 2)	Office & Classroom 5
CM-105	TEST MASTIC ONLY	Carpet Mastic (Blue Carpet Type 2)	Office & Classroom 5
CM-106	TEST MASTIC ONLY	Carpet Mastic (Red Carpet)	Classroom 10
CM-107	TEST MASTIC ONLY	Carpet Mastic (Red Carpet)	Classroom 10

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CM-108	TEST MASTIC ONLY	Carpet Mastic (Red Carpet)	Classroom 10
CM-109	TEST MASTIC ONLY	Carpet Mastic (Blue Carpet with Cream Specks)	Inst. Prep
CM-100	TEST MASTIC ONLY	Carpet Mastic (Blue Carpet with Cream Specks)	Inst. Prep
CM-111	TEST MASTIC ONLY	Carpet Mastic (Blue Carpet with Cream Specks)	Inst. Prep
CM-112	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Blue Carpet Type 3)	Office Beside Multimedia
CM-113	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Blue Carpet Type 3)	Office Beside Multimedia
CM-114	STOP FIRST POSITIVE LAYER; TEST MASTIC ONLY	Carpet Mastic (Blue Carpet Type 3)	Office Beside Multimedia
CM-115	TEST MASTIC ONLY	Carpet Mastic (Brown Carpet)	Multimedia Room
CM-116	TEST MASTIC ONLY	Carpet Mastic (Brown Carpet)	Multimedia Room
CM-117	TEST MASTIC ONLY	Carpet Mastic (Brown Carpet)	Multimedia Room
CM-118	TEST MASTIC ONLY	Mastic (Gray Blue Carpet)	CIC #1 & CIC #2
CM-119	TEST MASTIC ONLY	Mastic (Gray Blue Carpet)	CIC #1 & CIC #2
CM-120	TEST MASTIC ONLY	Mastic (Gray Blue Carpet)	CIC #1 & CIC #2
CT-121		1' X 1' Ceiling Tile	Walls in Attic Over Drill Hall Only
CT-122		1' X 1' Ceiling Tile	Walls in Attic Over Drill Hall Only
CT-123		1' X 1' Ceiling Tile	Walls in Attic Over Drill Hall Only
IB-124	Do Not Test Insulation	Insulation Backing (Black Coating)	Ceiling of Attic Over Drill Hall
IB-125	Do Not Test Insulation	Insulation Backing (Black Coating)	Ceiling of Attic Over Drill Hall

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IB-126	<b>Do Not Test Insulation</b>	Insulation Backing (Black Coating)	Ceiling of Attic Over Drill Hall
TC-127		Textured Ceiling	Recreation Room Only
TC-128		Textured Ceiling	Recreation Room Only
TC-129		Textured Ceiling	Recreation Room Only
CT-130		1' X 1' Ceiling Tile w/ Pinholes	Men's Room Only
CT-131		1' X 1' Ceiling Tile w/ Pinholes	Men's Room Only
CT-132		1' X 1' Ceiling Tile w/ Pinholes	Men's Room Only
CT-133		2' X 4' Ceiling Tile w/ Small & Large Holes	Halls / Drill Hall / Various Offices
CT-134		2' X 4' Ceiling Tile w/ Small & Large Holes	Halls / Drill Hall / Various Offices
CT-135		2' X 4' Ceiling Tile w/ Small & Large Holes	Halls / Drill Hall / Various Offices
CT-136		2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	Halls / Drill Hall / Various Offices
CT-137		2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	Halls / Drill Hall / Various Offices
CT-138		2' X 4' Off-White Ceiling Tile w/ Pinholes & Gouges	Halls / Drill Hall / Various Offices
CT-139		2' X 4' Ceiling Tile w/ White Outer Sheeting	Lounge & Recruiting
CT-140		2' X 4' Ceiling Tile w/ White Outer Sheeting	Lounge & Recruiting
CT-141		2' X 4' Ceiling Tile w/ White Outer Sheeting	Lounge & Recruiting
CT-142		2' X 4' Ceiling Tile w/ Textured Outer Sheeting	Library Only
CT-143		2' X 4' Ceiling Tile w/ Textured Outer Sheeting	Library Only

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CT-143-A		2' X 4' Ceiling Tile w/ Textured Outer Sheeting	Library Only
CT-144		2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	Limited Areas, Replacement Tile
CT-145		2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	Limited Areas, Replacement Tile
CT-146		2' X 4' Ceiling Tile w/ Pinholes & Gouges (Bright White, Newer)	Limited Areas, Replacement Tile
FB-147		Fiberboard with Square Pattern	Walls in Kitchen & Women's Room
FB-148		Fiberboard with Square Pattern	Walls in Kitchen & Women's Room
FB-149		Fiberboard with Square Pattern	Walls in Kitchen & Women's Room
M-150	TEST MASTIC ONLY - Do Not Test Paper	Gray Mastic (Plastic w/ Paper Backing)	Restroom By Admin Office
M-151	TEST MASTIC ONLY - Do Not Test Paper	Gray Mastic (Plastic w/ Paper Backing)	Restroom By Admin Office
M-152	TEST MASTIC ONLY - Do Not Test Paper	Gray Mastic (Plastic w/ Paper Backing)	Restroom By Admin Office
T-153		Duct Tape	HVAC Unit in 2nd Deck
T-154		Duct Tape	HVAC Unit in 2nd Deck
T-155		Duct Tape	HVAC Unit in 2nd Deck
VF-156			Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-157		12" X 12" Black VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-158		12" X 12" Black VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)

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VF-159	<b>DO NOT TEST MASTIC (SAME AS VF-157, VF-158, VF-159)</b>	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-160	<b>DO NOT TEST MASTIC (SAME AS VF-157, VF-158, VF-159)</b>	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
VF-161	<b>DO NOT TEST MASTIC (SAME AS VF-157, VF-158, VF-159)</b>	12" X 12" Brown VFT / Mastic	Movie Locker / Entrance to 2nd Deck Only (Black and Brown Checkerboard Pattern)
CS-162		Concrete Slab	Building Slab-On-Grade
CS-163		Concrete Slab	Building Slab-On-Grade
CS-164		Concrete Slab	Building Slab-On-Grade
WG-165		Window Glazing	Windows in Machine Shop / Main Propulsion
WG-166		Window Glazing	Windows in Machine Shop / Main Propulsion
WG-167		Window Glazing	Windows in Machine Shop / Main Propulsion
B-168	<b>STOP FIRST POSITIVE LAYER</b>	White Boiler Jacket	Boiler & Adjoining Pipes
B-169	<b>STOP FIRST POSITIVE LAYER</b>	White Boiler Jacket	Boiler & Adjoining Pipes
B-170	<b>STOP FIRST POSITIVE LAYER</b>	White Boiler Jacket	Boiler & Adjoining Pipes
B-171	<b>STOP FIRST POSITIVE LAYER</b>	Red & White Insulation	Around Boiler Door
B-172	<b>STOP FIRST POSITIVE LAYER</b>	Red & White insulation	Around Boiler Door
B-173	<b>STOP FIRST POSITIVE LAYER</b>	Red & White Insulation	Around Boiler Door
BG-174		Brick Grout	Chimney, Boiler Room Walls, Front Entrance

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BG-175		Brick Grout	Chimney, Boiler Room Walls, Front Entrance
BG-176		Brick Grout	Chimney, Boiler Room Walls, Front Entrance
C-177		Window Caulk	Building Windows
C-178		Window Caulk	Building Windows
C-179		Window Caulk	Building Windows
CM-180		CMU Block	Storage Building
CM-181		CMU Block	Storage Building
CM-182		CMU Block	Storage Building
M-183		Mortar	Storage Building
M-184		Mortar	Storage Building
M-185		Mortar	Storage Building
RV-186	STOP FIRST POSITIVE LAYER	Caulk	Roof Vent
RV-187	STOP FIRST POSITIVE LAYER	Caulk	Roof Vent
RV-188	STOP FIRST POSITIVE LAYER	Caulk	Roof Vent
C-189		Caulk	Flashing on Parapet Wall
C-190		Caulk	Flashing on Parapet Wall
C-191		Caulk	Flashing on Parapet Wall

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C-192		Caulk	Roof Flashing
C-193		Caulk	Roof Flashing
C-194		Caulk	Roof Flashing
BR-195	DO NOT TEST FOAM	Built Up Roofing Layers	
BR-196	DO NOT TEST FOAM	Built Up Roofing Layers	
BR-197	DO NOT TEST FOAM	Built Up Roofing Layers	
C-198		Caulk	Seams of Building Walls, Isolated Areas
C-199		Caulk	Seams of Building Walls, Isolated Areas
C-200		Caulk	Seams of Building Walls, Isolated Areas
SC-201		Surface Coating	Metal Roof
SC-202		Surface Coating	Metal Roof
SC-203		Surface Coating	Metal Roof
SC-204		Surface Coating	Metal Roof
SC-205		Surface Coating	Metal Roof
SC-206		Surface Coating	Metal Roof
SC-207		Surface Coating	Metal Roof
BS-208	TEST BROWN COATING ONLY	Brown Sealant	Seams of Built-Up Roof - East Side Only
BS-209	TEST BROWN COATING ONLY	Brown Sealant	Seams of Built-Up Roof - East Side Only
BS-210	TEST BROWN COATING ONLY	Brown Sealant	Seams of Built-Up Roof - East Side Only

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SC-211		Surface Coating	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building
SC-212		Surface Coating	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building
SC-213		Surface Coating	Isolated to Wall at the Interface of the Built Up Roof and Metal Roofs on the North Side of the Building

RS-214	Roofing Shingle	Storage Bldg.
RS-215	Roofing Shingle	Storage Bldg.
RS-216	Roofing Shingle	Storage Bldg.

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**Appendix E**

Photographic Documentation  
*Asbestos-Containing Materials*



Photograph #001 View of Building Exterior – North Side



Photograph #002 View of Building Exterior - South Side



Photograph #003

Drill Hall – 12”X12” Beige with Brown Streaks Vinyl Floor Tile (VFT)/Mastic (3% Chrysotile / 6% Chrysotile). See Appendix B, Figure 9 for Locations.



Photograph #04

Drill Hall - Close Up View of 12”X12” Beige with Brown Streaks VFT/Mastic (3% Chrysotile / 6% Chrysotile).

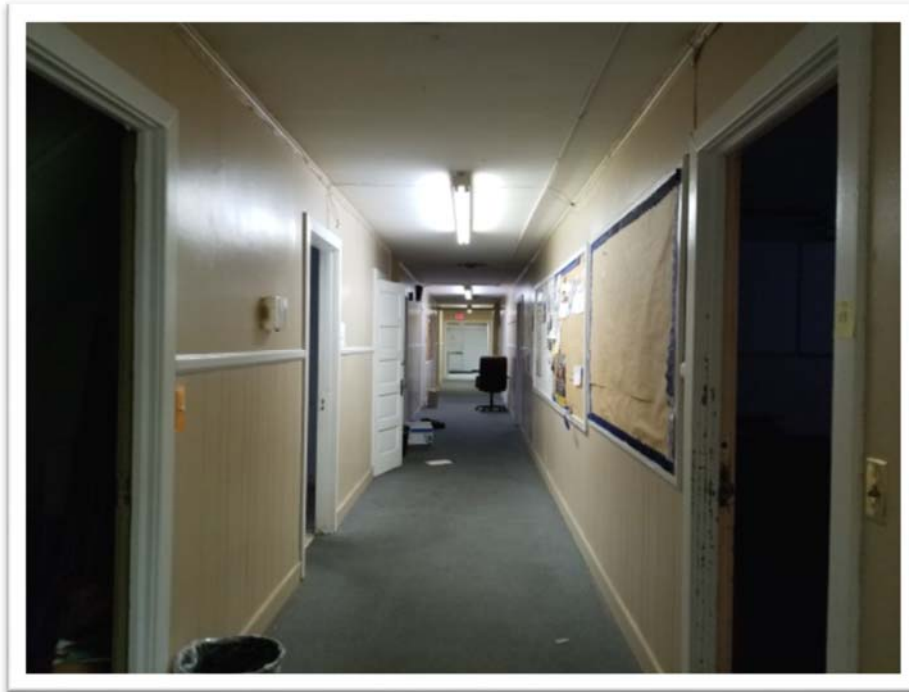


Photograph #05 Sampling Point SF-29 in Galley – Cream w/ Green Trim Hexagon Vinyl Sheet Flooring (15% Chrysotile).

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Photograph #06 Sampling Point VF-30, Below Carpet in Hall – 12”X12” VFT/Mastic (4% Chrysotile / 6% Chrysotile).



Photograph #07

Hall – Asbestos Containing 12”X12” VFT/Mastic is Located Beneath Carpet Throughout Halls and in Various Offices. See Appendix B, Figure 9 for Locations.



Photograph #08

C.O.’s Office – 12”X12” VFT / Mastic (3% Chrysotile/2% Chrysotile).  
Note: Asbestos Containing 9”X9” VFT/Mastic is Below the 12”X12” VFT.





Photograph #09

View of Wallboard System – Three Samples of Joint Compound were Identified as 4% Chrysotile. The Entire Wallboard System is Asbestos Containing.

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Photograph #10

Classroom #4 – Brown and Black 9”X9” VFT/Mastic (6% Chrysotile / 5% Chrysotile), See Appendix B, Figure 8 for Locations.



Photograph #11 Medical Office – 9”X9” Black with Cream Streaks and Gray VFT/Mastic (3%, 2% Chrysotile / 6% Chrysotile). See Appendix B, Figure 8 for Locations.

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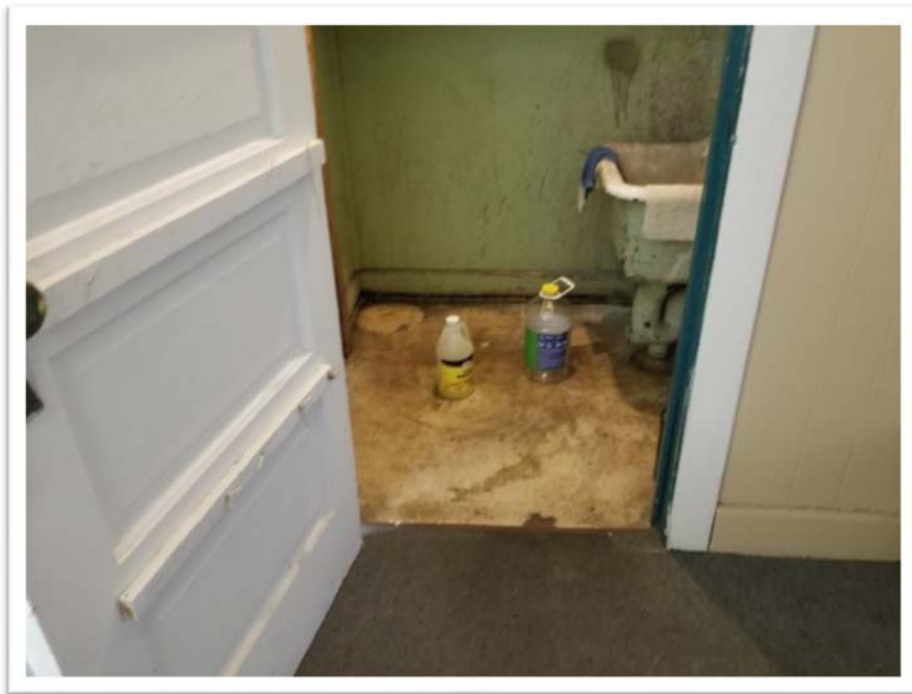
Photograph #12 Storage Closet by Medical Office, Sampling Point VT-75 – Additional View of Asbestos Containing 9”X9” Black with Cream Streaks VFT/Mastic.



Photograph #13

Office East of Forms, Sampling Point VF-97 – View of Asbestos Containing 12”X12” White w/ Beige Streaks VFT (2% Chrysotile).

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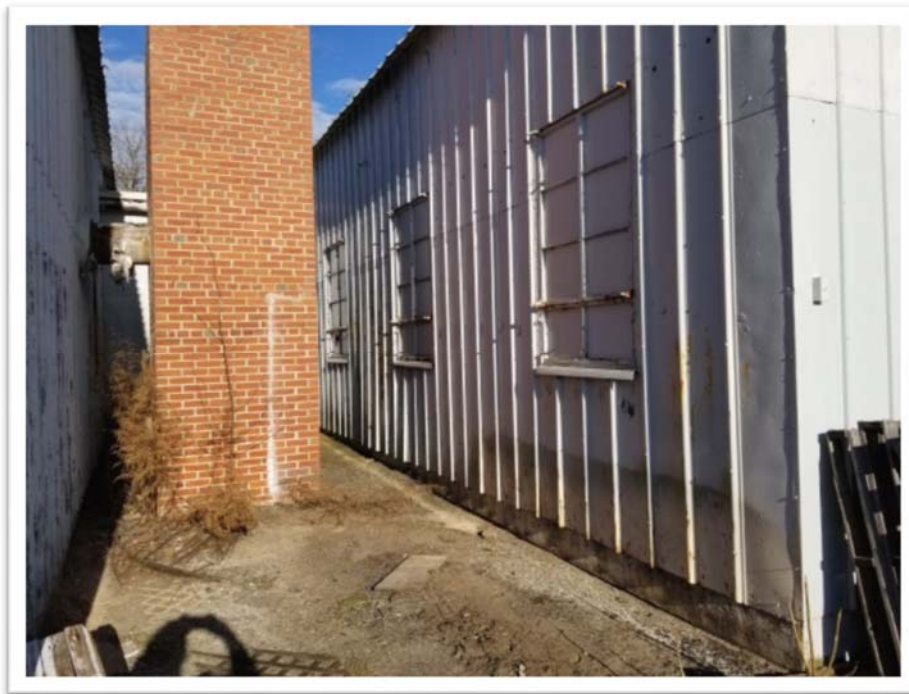
Photograph #14

Mop Closet – View of 9”X9” White VFT/Mastic (4% Chrysotile/ None Detected).



Photograph #15 Entry to 2<sup>nd</sup> Deck Stairs – 12”X 12” Black and Brown VFT/Mastic (5% Chrysotile/5% Chrysotile).

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Photograph #16 Exterior View Between Main Propulsion & Boiler Room – Window Glazing is 3% Chrysotile.

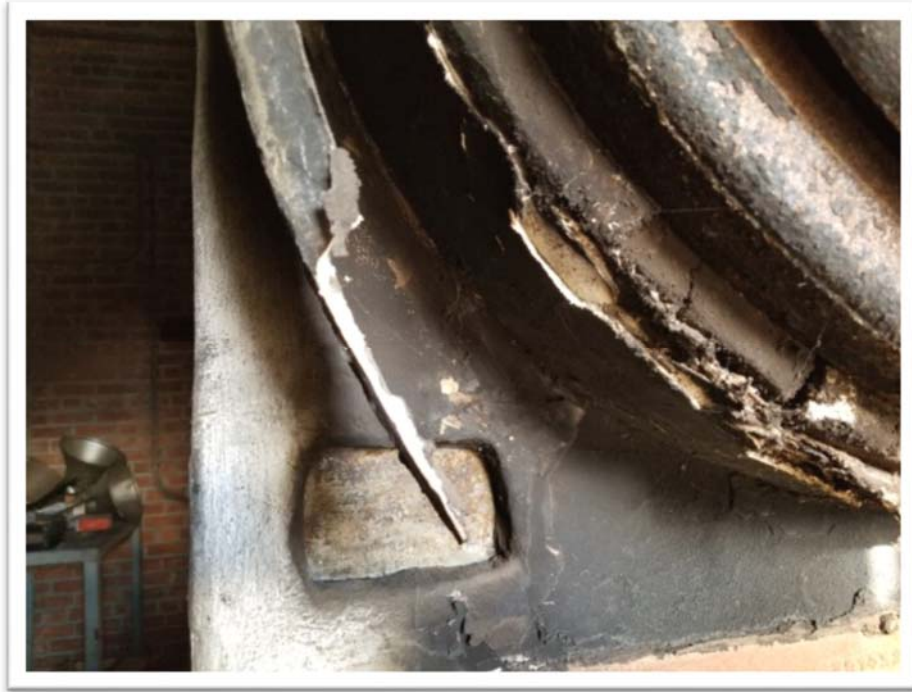


Photograph #17 Exterior Window Between Machine Shop and Main Propulsion – Close Up View of 3% Chrysotile Window Glazing

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Photograph #18 Boiler Room, Boiler Jacket – 20% Chrysotile



Photograph #19 Boiler Room, Boiler Door – Red and White Insulation, 20% Chrysotile

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Photograph #20 Building Exterior at Interface of CMU Block Wall and Sheet Metal – Caulk at Building Interface is 5% Chrysotile.



Photograph #21 Metal Roof – Surface Coating is 3% and 4% Chrysotile.

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Photograph #22 2<sup>nd</sup> Deck - TSI Pipe Wrap is 25% to 25% Chrysotile and 15% to 18% Amosite. TSI and Pipe Wrap Throughout the Building is Asbestos Containing.



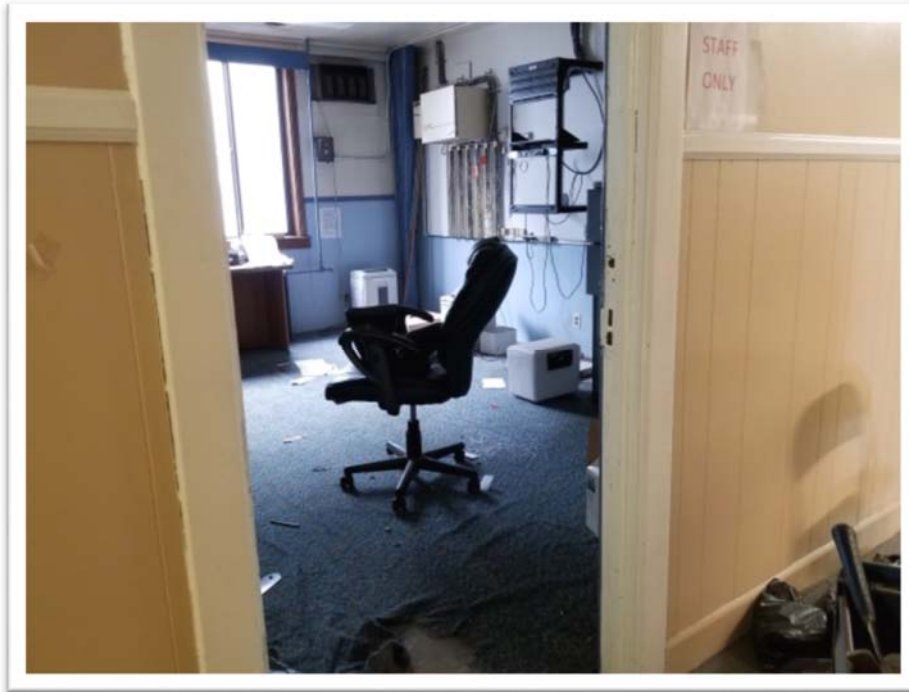
Photograph #23 Attic – View of TSI Pipe Wrap and Elbows. Elbows are 25% Chrysotile. Pipe Wrap is 25% to 30% Chrysotile and 15% to 18% Amosite.

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Photograph #24 Composite Roof – No Asbestos Containing Materials were Identified.





Photograph #25

View of Typical Office – Asbestos Containing Floor Tiles are Located Below Carpet Through Most of the Building. See Appendix B, Figures 8 & 9 for Locations.

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