

PRE-DEMOLITION ASBESTOS ASSESSMENT

COMMERCIAL BUILDING

216 BROAD STREET

BENNETTSVILLE, SOUTH CAROLINA 29512

Submitted to:

Marlboro County Government
205 East Market Street
Bennettsville, South Carolina 29512

Prepared by:

GEL Engineering, LLC
Post Office Box 30712
Charleston, South Carolina 29417
Asbestos Building Inspector: Sarah Browning, E.I.T., C.I.E.C.
Office Phone: 843-769-7378

Date Asbestos Building Assessment Performed: February 6, 2023

Date of Report: February 16, 2023

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Signature Page

This document titled, “Pre-Demolition Asbestos Assessment,” has been prepared and reviewed by the undersigned at the request of and for the exclusive use of the Marlboro County Government (Marlboro County), which is located at 205 East Market Street in Bennettsville, South Carolina. It has been prepared in accordance with the United States Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA); and the South Carolina Department of Health and Environmental Control (DHEC) asbestos regulations.

A handwritten signature in cursive script, reading "Sarah Browning", written over a horizontal line.

Sarah Browning, E.I.T., C.I.E.C.
Project Manager

A handwritten signature in cursive script, reading "Ronald S. Sharpe", written over a horizontal line.

Ronald S. Sharpe, C.I.H., R.S.
Senior Scientist

EXECUTIVE SUMMARY

The following executive summary is a summation of the overall project and should not be used as a stand-alone document. This executive summary does not contain all of the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made and/or actions taken based on this information.

The pre-demolition asbestos assessment conducted on February 6, 2023, of the commercial building located at 216 Broad Street in Bennettsville, South Carolina, revealed the presence of an Asbestos-Containing Material (ACM) and Presumed Asbestos-Containing Materials (PACMs). The following table provides a summary of the ACM and PACMs that were identified during the pre-demolition asbestos assessment.

ACM and PACMs Description	Location ⁽²⁾	Quantities ⁽³⁾
ACM - 9" x 9" Floor Tiles ⁽⁴⁾	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	13,500 SF
PACM - Fire Hose	Inside Building	1 Fire Hose
PACM – Fire Doors	If Present	Unknown

Notes:

1. SF - Square Feet
2. Please see the diagram in Appendix 4.2 for the Room Number Locations
3. These quantities are estimates. The asbestos contractor is responsible for verifying the quantities of the ACM and PACMs listed above.
4. Although the black and yellow mastics associated with these floor tiles did not test positive for the presence of asbestos, they cannot be separated; therefore, they must both be handled and disposed of as ACMs.

If the ACM and/or PACMs listed above will likely be disturbed during repair, renovation, and/or demolition activities, they should be handled in accordance with the applicable OSHA, DHEC, and EPA asbestos regulations. The OSHA, DHEC, and EPA asbestos regulations state that a licensed asbestos abatement contractor must properly handle and dispose of all disturbed ACMs and/or PACMs prior to repair, renovation, and/or demolition activities. As stated above, the asbestos contractor is responsible for verifying the quantities of the ACM and PACMs listed above.

Although reasonable effort was made to sample all suspect ACMs in the commercial building, there is a potential that some areas of suspect ACMs introduced into the aforementioned building by undocumented renovations, and/or repairs may not have been detected. Additionally, suspect ACMs may be located in inaccessible areas in the building, such as wall cavities and pipe chases. If additional suspect ACMs are identified during repair, renovation, and/or demolition activities, GEL should be notified, and all work should cease until the suspect ACM(s) is/are sampled by a licensed asbestos inspector and laboratory analysis results have been reviewed.

PRE-DEMOLITION ASBESTOS ASSESSMENT

COMMERCIAL BUILDING 216 BROAD STREET BENNETTSVILLE, SOUTH CAROLINA 29512

1.0 Introduction

Marlboro County requested that GEL perform a pre-demolition asbestos assessment of the commercial building, which is located at 216 Broad Street in Bennettsville, South Carolina.

GEL's Ms. Sarah Browning, E.I.T., C.I.E.C., and a licensed asbestos building inspector in the State of South Carolina, performed the pre-demolition asbestos assessment on February 6, 2023. Her asbestos license and training certificate are included in Appendix 4.4.

The commercial building is a one-story, steel- and wood-framed structure with either a flat asphalt shingle Built-Up Roof (BUR) system or a slightly pitched corrugated metal roof system, and exterior brick façade or corrugated metal siding. No caulking is present around the screws mechanically fastening the corrugated metal roof or siding to the structural steel framing. The asphalt shingle BUR system is homogeneous around the roof penetrations and parapet walls of the flat BUR roof system. No roof penetrations are present within the corrugated metal roof system.

A gray canvas material over fibrous glass insulation is located around the rectangular metal ductwork of the Heating, Ventilation and Air-Conditioning (HVAC) system on the exterior of the building. No mastic was presented along the seams of the aluminum foil-faced flexible HVAC ductwork on the interior of the building.

No exterior caulking/sealant material was observed around the windows or doors of the building.

The flooring systems inside the building are either carpet and associated mastic, carpet and associated mastic over floor tiles and associated mastic, or floor tiles and associated mastic. The flooring systems were all installed over a poured concrete floor slab. No flooring materials are present on the poured concrete floor slab in room numbers 9 and 10 (please see appendix 4.2 for the room number locations).

The wall systems inside the building are either a gypsum board system comprised of a drywall layer and a joint compound layer, wood paneling mechanically fastened to wood framing, uninsulated brick, uninsulated Concrete Masonry Units (CMU), or vinyl-faced fibrous glass insulation panels mechanically fastened to the steel framing. Fibrous glass batt insulation is located behind the gypsum board wall systems. Black vinyl toe boards and associated mastic are located along the periphery of the wall system in room numbers 13 and 14. Wood toe boards mechanically fastened to the wall systems with nails are located in the remaining administrative areas of the building.

The ceiling systems inside the building are either a gypsum board system comprised of a drywall layer and a joint compound layer, or vinyl-faced fibrous glass insulation panels mechanically fastened to the steel framing. Blown-in fibrous glass insulation was observed in the attic of the building.

2.0 Pre-Demolition Asbestos Assessment

2.1 Asbestos Investigative Procedures

The asbestos assessment was performed by observing and sampling suspect ACMs in the commercial building. Significant destructive testing was not utilized during GEL's pre-demolition asbestos assessment.

Although reasonable effort was made to sample all suspect ACMs in the commercial building, there is a potential that some areas of suspect ACMs introduced into the commercial building have not been detected. Additionally, suspect ACMs may be located in inaccessible areas in the commercial building, such as wall cavities and pipe chases. If additional suspect ACMs are identified during repair, renovation, and/or demolition activities, GEL should be notified, and all work should cease until the suspect ACM(s) is/are sampled by a licensed asbestos inspector and laboratory analysis results have been reviewed.

Representative samples were collected from a variety of suspect ACMs. These samples were recorded on a Chain-of-Custody record and submitted to Scientific Analytical Institute, Inc. (SAI) laboratory in Greensboro, North Carolina for analysis. SAI is accredited with the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology (NIST).

The bulk samples of suspect material were analyzed utilizing Polarized Light Microscopy (PLM) coupled with dispersion staining and/or Transmission Electron Microscopy (TEM). The EPA recognizes a material as ACM if an asbestos content of greater than one percent by weight (> 1%) is detected in a representative sample.

2.2 Homogeneous Area Summary

The suspect ACMs were grouped into homogeneous areas. A homogeneous area is an area that contains suspect ACM that is uniform in color, texture, and appears identical in every respect. Also, each sample was determined to be either friable or non-friable. A friable material is one that, when dry, can be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of renovation or demolition. Non-friable materials are not expected to be crumbled, pulverized, or reduced to powder by the forces expected during renovation or demolition. Additionally, non-friable materials are those materials in which fibers have been “locked in” by a bonding agent, coating, binder, or other material so that the asbestos is bound and will not readily release fibers during normal handling or use. However, non-friable materials may become friable if improperly used, handled, and/or become deteriorated or disturbed.

2.3 Asbestos, Pre-Demolition Assessment Results

The location, description, and condition of each suspect ACM sampled are included in Appendix 4.1, Table 1 for the PLM and TEM analyses. The Chain-of-Custody record and the Certificates of Analyses are included in Appendix 4.3.

2.4 Conclusions and Recommendations

Please see the executive summary.

If additional suspect ACM(s) are identified during future repair, renovation, and/or demolition activities, GEL should be notified, and all work should cease until the materials are sampled by a licensed asbestos inspector and laboratory results reviewed. Any ACM(s) identified should be handled in accordance with the applicable OSHA, SCDHEC, and EPA asbestos regulations.

3.0 Deviations or Limiting Conditions

GEL took representative samples of suspect ACMs from randomly selected homogeneous areas of the ceiling, wall, roof, flooring, and other building and system components throughout the commercial building. Significant, complete destructive testing of the aforementioned systems/components throughout the commercial building was not performed to visually confirm similar, homogeneously identified layer(s) and/or to discover additional suspect ACMs and/or other hidden systems and/or system components in the referenced commercial building. Some areas of suspect ACMs may have been introduced into the commercial building by undocumented renovations, and/or repairs may not have been detected. As stated above, if additional, suspect ACM(s) are encountered during future repair, renovation and/or demolition activities, GEL should be notified and

construction work must cease until a licensed asbestos inspector inspects, samples, and tests these additional, suspect ACMs.

This report has been prepared for the exclusive use of Marlboro County solely for their use and reliance and is subject to the terms and conditions agreed upon between GEL and Marlboro County for this specific project. These services have been provided in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Reliance on this report cannot be transferred without the written permission of Marlboro County and GEL, and only if the other party agrees to the Standard Terms and Conditions agreed upon for this project.

APPENDIX 4.1

TABLE 1: ASBESTOS RESULTS - PLM AND TEM ASBESTOS ANALYSES

TABLE 1
ASBESTOS RESULTS - PLM AND TEM ANALYSES
COMMERCIAL BUILDING
216 BROAD STREET
BENNETTSVILLE, SOUTH CAROLINA 29512
SAMPLED ON FEBRUARY 6, 2023

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
GC 1-1	1	Gray Canvas Material	On Exterior Heating, Ventilation, and Air-Conditioning (HVAC) System Ductwork	M	100 SF	ND	NA
GC 1-2		Gray Canvas Material	On Exterior HVAC System Ductwork	M		ND	NA
GC 1-3*		Gray Canvas Material	On Exterior HVAC System Ductwork	M		ND	NA
DW 2-4-A	2	Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM	Greater Than (>) 5,000 SF	ND	NA
DW 2-4-B		Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-5-A		Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-5-B		Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-6-A		Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
DW 2-6-B	2	Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM	> 5,000 SF	ND	NA
DW 2-7-A		Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-7-B		Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-8-A		Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-8-B		Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-9-A		Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-9-B		Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA
DW 2-10-A		Gypsum Board System: Drywall Layer	Various Wall and Ceiling Systems Throughout Building	SM		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
DW 2-10-B	2	Gypsum Board System: Joint Compound	Various Wall and Ceiling Systems Throughout Building	SM	> 5,000 SF	ND	NA
PC 3-11	3	"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM	> 5,000 SF	ND	NA
PC 3-12		"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM		ND	NA
PC 3-13		"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM		ND	NA
PC 3-14		"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM		ND	NA
PC 3-15		"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM		ND	NA
PC 3-16		"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM		ND	NA
PC 3-17		"Popcorn" Ceiling Texture	Ceilings in West Side Administrative Areas	SM		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
TC 4-18	4	Textured Ceiling Material	Ceilings in Room #7	SM	1,200 SF	ND	NA
TC 4-19		Textured Ceiling Material	Ceilings in Room #7	SM		ND	NA
TC 4-20		Textured Ceiling Material	Ceilings in Room #7	SM		ND	NA
TC 4-21		Textured Ceiling Material	Ceilings in Room #7	SM		ND	NA
TC 4-22		Textured Ceiling Material	Ceilings in Room #7	SM		ND	NA
YM 5-23	5	Yellow Mastic Material	Associated with Multi-Colored Flowery Carpet in Room Numbers 1, 2, 3, 4, and 11	M	2,000 SF	ND	NA
YM 5-24		Yellow Mastic Material	Associated with Multi-Colored Flowery Carpet in Room Numbers 1, 2, 3, 4, and 11	M		ND	NA
YM 5-25*		Yellow Mastic Material	Associated with Multi-Colored Flowery Carpet in Room Numbers 1, 2, 3, 4, and 11	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 6-26	6	12" x 12" Brown "Peel and Stick" Floor Tiles and Non-Suspect Asbestos-Containing Clear Adhesive	Restrooms (Top Layer) - Room Number 5	M	120 SF	ND	NA
FT 6-27		12" x 12" Brown "Peel and Stick" Floor Tiles and Non-Suspect Asbestos-Containing Clear Adhesive	Restrooms (Top Layer) - Room Number 5	M		ND	NA
FT 6-28*		12" x 12" Brown "Peel and Stick" Floor Tiles and Non-Suspect Asbestos-Containing Clear Adhesive	Restrooms (Top Layer) - Room Number 5	M		ND	NA
FT 7-29-A	7	12" x 12" Gray Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Restrooms (Bottom Layer) - Room Number 5	M	120 SF	ND	NA
FT 7-29-B		12" x 12" Gray Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Restrooms (Bottom Layer) - Room Number 5	M		ND	NA
FT 7-30-A		12" x 12" Gray Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Restrooms (Bottom Layer) - Room Number 5	M		ND	NA
FT 7-30-B		12" x 12" Gray Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Restrooms (Bottom Layer) - Room Number 5	M		ND	NA
FT 7-31-A*		12" x 12" Gray Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Restrooms (Bottom Layer) - Room Number 5	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 7-31-B*	7	12" x 12" Gray Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Restrooms (Bottom Layer) - Room Number 5	M	120 SF	ND	NA
YM 8-32	8	Yellow Mastic Material	Associated with Red Carpet - Bingo Hall - Room Number 6	M	8,000 SF	ND	NA
YM 8-33		Yellow Mastic Material	Associated with Red Carpet - Bingo Hall - Room Number 6	M		ND	NA
YM 8-34*		Yellow Mastic Material	Associated with Red Carpet - Bingo Hall - Room Number 6	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 9-35-A	9	12" x 12" Light Blue Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Room Number 7 and Approximately Half of Room Number 11	M	100 SF	ND	NA
FT 9-35-B		12" x 12" Light Blue Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Room Number 7 and Approximately Half of Room Number 11	M		ND	NA
FT 9-36-A		12" x 12" Light Blue Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Room Number 7 and Approximately Half of Room Number 11	M		ND	NA
FT 9-36-B		12" x 12" Light Blue Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Room Number 7 and Approximately Half of Room Number 11	M		ND	NA
FT 9-37-A*		12" x 12" Light Blue Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Room Number 7 and Approximately Half of Room Number 11	M		ND	NA
FT 9-37-B*		12" x 12" Light Blue Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Room Number 7 and Approximately Half of Room Number 11	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 10-38	10	12" x 12" Dark Blue Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽²⁾	Room Number 15 (Kitchen) and Patterned in Room Number 7	M	100 SF	ND	NA
FT 10-39		12" x 12" Dark Blue Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽²⁾	Room Number 15 (Kitchen) and Patterned in Room Number 7	M		ND	NA
FT 10-40*		12" x 12" Dark Blue Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽²⁾	Room Number 15 (Kitchen) and Patterned in Room Number 7	M		ND	NA
FT 11-41	11	12" x 12" White Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽²⁾	Patterned in Room Number 7	M	25 SF	ND	NA
FT 11-42		12" x 12" White Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽²⁾	Patterned in Room Number 7	M		ND	NA
FT 11-43*		12" x 12" White Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽²⁾	Patterned in Room Number 7	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 12-44-A	12	12" x 12" Cream Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Patterned with Sample Numbers FT 11-41, FT 11-42 and FT 11-43) in Room Number 8	M	60 SF	ND	NA
FT 12-44-B		12" x 12" Cream Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Patterned with Sample Numbers FT 11-41, FT 11-42 and FT 11-43) in Room Number 8	M		ND	NA
FT 12-45-A		12" x 12" Cream Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Patterned with Sample Numbers FT 11-41, FT 11-42 and FT 11-43) in Room Number 8	M		ND	NA
FT 12-45-B		12" x 12" Cream Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Patterned with Sample Numbers FT 11-41, FT 11-42 and FT 11-43) in Room Number 8	M		ND	NA
FT 12-46-A*		12" x 12" Cream Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Patterned with Sample Numbers FT 11-41, FT 11-42 and FT 11-43) in Room Number 8	M		ND	NA
FT 12-46-B*		12" x 12" Cream Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Patterned with Sample Numbers FT 11-41, FT 11-42 and FT 11-43) in Room Number 8	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 13-47	13	12" x 12" Black Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽³⁾	Patterned in Room Number 11	M	50 SF	ND	NA
FT 13-48		12" x 12" Black Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽³⁾	Patterned in Room Number 11	M		ND	NA
FT 13-49*		12" x 12" Black Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i> ⁽³⁾	Patterned in Room Number 11	M		ND	NA
FT 14-50-A	14	12" x 12" Bright White Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Patterned in Room Number 11	M	50 SF	ND	NA
FT 14-50-B		12" x 12" Bright White Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Patterned in Room Number 11	M		ND	NA
FT 14-51-A		12" x 12" Bright White Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Patterned in Room Number 11	M		ND	NA
FT 14-51-B		12" x 12" Bright White Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Patterned in Room Number 11	M		ND	NA
FT 14-52-A*		12" x 12" Bright White Floor Tiles and Associated Yellow Mastic - <i>Floor Tiles Only</i>	Patterned in Room Number 11	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 14-52-B*	14	12" x 12" Bright White Floor Tiles and Associated Yellow Mastic - <i>Mastic Only</i>	Patterned in Room Number 11	M	50 SF	ND	NA
YM 15-53	15	Yellow Mastic Material	Associated with Brown Carpet in Room Numbers 13 and 14	M	14,000 SF	ND	NA
YM 15-54		Yellow Mastic Material	Associated with Brown Carpet in Room Numbers 13 and 14	M		ND	NA
YM 15-55*		Yellow Mastic Material	Associated with Brown Carpet in Room Numbers 13 and 14	M		ND	NA

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Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 16-56-A	16	9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Yellow Mastic Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M	13,500 SF	ND	NA
FT 16-56-B		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Floor Tiles Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		C, 6%	G/NF
FT 16-56-C		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Black Mastic Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		ND	NA
FT 16-57-A		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Yellow Mastic Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		ND	NA
FT 16-57-B		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Floor Tiles Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		C, 6%	G/NF
FT 16-57-C		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Black Mastic Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		ND	NA
FT 16-58-A*		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Floor Tiles Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		ND	NA
FT 16-58-B*		9" x 9" Floor Tiles and Associated Mixed Mastic - <i>Mastic Only</i>	Underneath Brown Carpet in Room Numbers 13 and 14 and in Stairwell Leading to Mezzanine (Attic)	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM AND TEM ANALYSES
COMMERCIAL BUILDING
216 BROAD STREET
BENNETTSVILLE, SOUTH CAROLINA 29512
SAMPLED ON FEBRUARY 6, 2023

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
TB 17-59-A	13	Black Vinyl Toe Boards and Associated Cream Mastic - <i>Toe Boards Only</i>	Along Wall System in Rooms 13 and 14	M	1,000 LF	ND	NA
TB 17-59-B		Black Vinyl Toe Boards and Associated Cream Mastic - <i>Mastic Only</i>	Along Wall System in Rooms 13 and 14	M		ND	NA
TB 17-60-A		Black Vinyl Toe Boards and Associated Cream Mastic - <i>Toe Boards Only</i>	Along Wall System in Rooms 13 and 14	M		ND	NA
TB 17-60-B		Black Vinyl Toe Boards and Associated Cream Mastic - <i>Mastic Only</i>	Along Wall System in Rooms 13 and 14	M		ND	NA
TB 17-61-A*		Black Vinyl Toe Boards and Associated Cream Mastic - <i>Toe Boards Only</i>	Along Wall System in Rooms 13 and 14	M		ND	NA
TB 17-61-B*		Black Vinyl Toe Boards and Associated Cream Mastic - <i>Mastic Only</i>	Along Wall System in Rooms 13 and 14	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM AND TEM ANALYSES
COMMERCIAL BUILDING
216 BROAD STREET
BENNETTSVILLE, SOUTH CAROLINA 29512
SAMPLED ON FEBRUARY 6, 2023

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
BUR 18-62	18	Built-Up Roofing Material	Roof	M	14,000 SF	ND	NA
BUR 18-63		Built-Up Roofing Material	Roof	M		ND	NA
BUR 18-64*		Built-Up Roofing Material	Roof	M		ND	NA
Not Sampled	19	Fire Doors	If Present	M	Unknown	PACM	
Not Sampled	20	Fire Hoses	Inside Building	M	1 Fire Hose	PACM	

TABLE 1
ASBESTOS RESULTS - PLM AND TEM ANALYSES
COMMERCIAL BUILDING
216 BROAD STREET
BENNETTSVILLE, SOUTH CAROLINA 29512
SAMPLED ON FEBRUARY 6, 2023

Sample Number	Homogeneous Area Number	Material Description	Homogeneous Area Description ⁽¹⁾	Type of Material	Total Amount	Type and % Asbestos	Condition
---------------	-------------------------	----------------------	---	------------------	--------------	---------------------	-----------

NOMENCLATURE AND NOTES:

NA - Not Applicable; Entered into table when there is no asbestos detected in sample

PACM- Presumed Asbestos Containing Material

***TEM Analysis**

(1) Please see diagram in Appendix 4.2 for Room Number Locations

(2) The yellow mastic associated with these floor tiles is homogeneous to Sample Numbers (FT 9-35-B, FT 9-36-B, and FT 9-37-B*)

(3) The yellow mastic associated with these floor tiles is homogeneous to Sample Numbers (FT 14-50-B, FT 14-51-B and FT 14-52-B*)

Type and Percent Asbestos

C= Chrysotile

A = Amosite

ND = None Detected

Sample Number Abbreviations

DW - Drywall and Joint Compound

FT- Floor Tile and Associated Mastic

YM - Yellow Mastic

PC - "Popcorn" Ceiling Texture

TC - Textured Ceiling Material

BUR - Built-Up Roofing Material

TB - Toe Board and Mastic

GC - Gray Canvas

Type of Material

M = Miscellaneous

SM = Surfacing Material

TSI = Thermal System Insulation

Measurements

SF=Square Feet

LF= Linear Feet

Condition of Material

NF = Non-friable, F = Friable

G = Good; D = Damaged; SD = Significantly Damaged

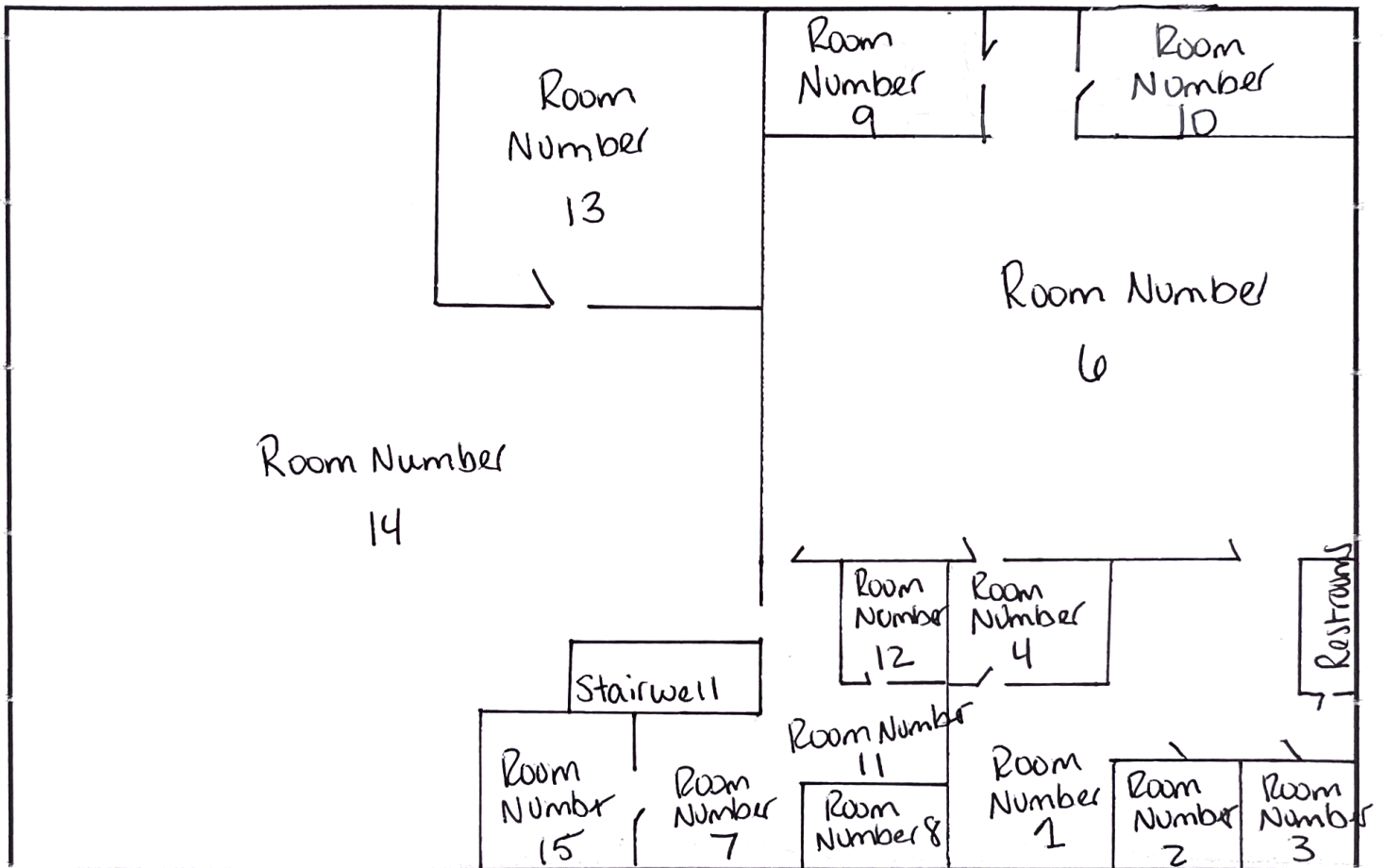
These categories above apply only when

a material is identified as an ACM

APPENDIX 4.2

DIAGRAM OF ROOM NUMBER LOCATIONS

DIAGRAM OF ROOM NUMBER LOCATIONS
GEL ENGINEERING, LLC
FEBRUARY 6, 2023



Broad Street

APPENDIX 4.3

CHAIN-OF-CUSTODY RECORD AND CERTIFICATES OF ANALYSES



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: TBS

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Organic (Wt %)	Acid Soluble (Wt. %)	Asbestos (Wt %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
GC-1-3	Gray canvas	38%	0%	None Detected	
10015595_0003					
YM5-25	Yellow mastic	48%	0%	None Detected	
10015595_0025					
FT6-28	12"x12" brown floor tile	33%	62%	None Detected	
10015595_0028					
FT7-31 - A	12"x12" gray floor tile and yellow mastic	18%	81%	None Detected	
10015595_0031	tile				
FT7-31 - B	12"x12" gray floor tile and yellow mastic	57%	0%	None Detected	
10015595_0065	mastic				
YM8-34	Yellow mastic	37%	0%	None Detected	
10015595_0034					
FT9-37	12"x12" light blue floor tile and yellow mastic	19%	80.0%	None Detected	
10015595_0037	tile				
FT9-37 - B	12"x12" light blue floor tile and yellow mastic	54%	0%	None Detected	
10015595_0066	mastic				

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Daniel Schwartz (21)

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: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: TBS

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Organic (Wt %)	Acid Soluble (Wt. %)	Asbestos (Wt %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
FT10-40	12"x12" dark blue floor tile	16%	82%	None Detected	
10015595_0040					
FT11-43	12"x12" white floor tile	26%	69%	None Detected	
10015595_0043					
FT12-46	12"x12" cream floor tile and yellow mastic	17%	82%	None Detected	
10015595_0046	tile				
FT12-46 - B	12"x12" cream floor tile and yellow mastic	20.0%	80.0%	None Detected	
10015595_0067	mastic				
FT13-49	12"x12" black floor tile	57%	0%	None Detected	
10015595_0049					
FT14-52	12"x12" white floor tiles and yellow mastic	17%	82%	None Detected	
10015595_0052	tile				
FT14-52 - B	12"x12" white floor tiles and yellow mastic	83%	0%	None Detected	
10015595_0068	mastic				
YM15-55	Yellow mastic	49%	0%	None Detected	
10015595_0055					

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Daniel Schwartz (21)

Analyst

Approved Signatory



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: TBS

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Organic (Wt %)	Acid Soluble (Wt. %)	Asbestos (Wt %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
FT16-58	9"x9" floor tile and black mastic	27%	31%	None Detected	
10015595_0058	tile				
FT16-58 - B	9"x9" floor tile and black mastic	50.0%	0%	None Detected	
10015595_0069	mastic				
TB17-61	Black toe boards: cream mastic	49%	0%	None Detected	
10015595_0061	covebase				
TB17-61 - B	Black toe boards: cream mastic	43%	0%	None Detected	
10015595_0070	mastic				
BUR18-64	Built-up roof material	92%	0%	None Detected	
10015595_0064					

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Daniel Schwartz (21)

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: 10015595

Client Code: _____

Company Contact Information

Company: GEL Engineering
Address: 2040 Savage Rd
Charleston, SC 29407
Contact: Sarah Browning
Phone ☐:
Fax ☐:
Email ☒: Sarah.browning@gel.com

Billing/Invoice Information

Company: SAA
Contact: SAA
Address: SAA
Turn Around Times
90 Min. ☐ 48 Hours ☐
3 Hours ☐ 72 Hours ☐
6 Hours ☐ 96 Hours ☐
12 Hours ☐ 120 Hours ☐
24 Hours ☒ 144+ Hours ☐

PO Number: _____

Project Name/Number: MACO 00123

TEM = V

Please analyze PL1: TEM at same time

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM) ☒
Positive stop ☐
PLM Point Count 400 (PT4) ☐
PLM Point Count 1000 (PTM) ☐
PCM NIOSH 7400-A Rules (PCM) ☐
B Rules (PCB) ☐ TWA (PTA) ☐
TEM AHERA (AHE) ☐
TEM Level II (LII) ☐
TEM NIOSH 7402 (TNI) ☐
TEM Bulk Qualitative (TBL) ☐
TEM Bulk Chatfield (TBS) ☒
TEM Bulk Quantitative (TBQ) ☐
TEM Wipe ASTM D6480-05 ☐
TEM Microvac ASTM D5755-07 ☐
TEM Water EPA 100.2 (TW1) ☐
Other: _____ ☐

Sample ID #	Description/Location	Volume/Area	Comments
GC1-1	Gray Canvas		
✓ GC1-2	↓		
GC1-3	↓		
DW2-4	Duplex: Joint compound		
DW2-5	↓		
DW2-6	↓		
DW2-7	↓		
DW2-8	↓		
DW2-9	↓		
DW2-10	↓		

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
J. L. C.	2-6-23	CS	1:30pm 2/7

Accepted ☒

Refused ☐

Page 1 of 3

A-F-012 EXP: 3/4/2021



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

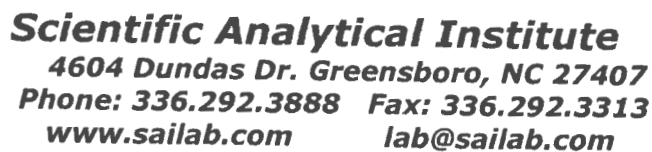
Lab Use Only

Lab Order ID:

Client Code:

10015595

Sample ID #	Description/Location	Volume/Area	Comments
PC 3-11	"Popcorn" Ceiling Texture		
PC 3-12			
PC 3-13			
PC 3-14			
PC 3-15			
PC 3-16			
PC 3-17			
TC 4-18	Textured Ceiling Material		
TC 4-19			
TC 4-20			
TC 4-21			
TC 4-22			
YM 5-23	Yellow Mastic		
✓ YM 5-24			
✓ YM 5-25			
FT 6-26	12"x12" Brown Floor Tile	} Analyze Floor Tile Only	
✓ FT 6-27			
✓ FT 6-28			
FT 7-29	12"x12" Gray Floor Tile and Yellow Mastic		
✓ FT 7-30			
✓ FT 7-31			
YM 8-32	Yellow Mastic		
✓ YM 8-33			
✓ YM 8-34			
FT 9-35	12"x12" Light Blue Floor Tile and Yellow Mastic		
✓ FT 9-36			
✓ FT 9-37			
FT 10-38	12"x12" Dark Blue Floor Tile	} Please analyze Floor Tile only	
FT 10-39			
✓ FT 10-40			
FT 11-41	12"x12" White Floor Tile	} Please analyze Floor tile only	
✓ FT 11-42			
✓ FT 11-43			
FT 12-44	12"x12" Cream Floor Tile and yellow Mastic		
✓ FT 12-45			
✓ FT 12-46			
FT 13-47	12"x12" Black floor tile	} Please analyze Floor Tile only	
FT 13-48			
✓ FT 13-49			



Client Code:

A-F-017 EXP:2-4/2021



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
GC-1-1	Gray canvas	None Detected	30% Fiber Glass	70% Other	Gray Fibrous Homogeneous
10015595_0001					Dissolved
GC-1-2	Gray canvas	None Detected	30% Fiber Glass	70% Other	Gray Fibrous Homogeneous
10015595_0002					Dissolved
GC-1-3	Gray canvas	Not Analyzed			
10015595_0003	TEM				
DW2-4 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0004	drywall				Crushed
DW2-4 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0071	joint compound				Crushed
DW2-5 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0005	drywall				Crushed
DW2-5 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0072	joint compound				Crushed
DW2-6 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0006	drywall				Crushed

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Megan Javonovich (85)

Analyst

Approved Signatory

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



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
DW2-6 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0073	joint compound				Crushed
DW2-7 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0007	drywall				Crushed
DW2-7 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0074	joint compound				Crushed
DW2-8 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0008	drywall				Crushed
DW2-8 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0075	joint compound				Crushed
DW2-9 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0009	drywall				Crushed
DW2-9 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0076	joint compound				Crushed
DW2-10 - A	Drywall : joint compound	None Detected	10% Cellulose	90% Other	Gray Non-Fibrous Homogeneous
10015595_0010	drywall				Crushed

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Megan Javonovich (85)

Analyst

Nathaniel J. Durham

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
DW2-10 - B	Drywall : joint compound	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0077	joint compound				Crushed
PC3-11	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0011					Teased
PC3-12	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0012					Teased
PC3-13	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0013					Teased
PC3-14	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0014					Teased
PC3-15	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0015					Teased
PC3-16	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0016					Teased
PC3-17	Popcorn ceiling texture	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0017					Teased

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Analyst

Nathaniel J. Durham

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TC4-18	Textured ceiling material	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0018					Teased
TC4-19	Textured ceiling material	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0019					Teased
TC4-20	Textured ceiling material	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0020					Teased
TC4-21	Textured ceiling material	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0021					Teased
TC4-22	Textured ceiling material	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0022					Teased
YM5-23	Yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0023					Dissolved
YM5-24	Yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0024					Dissolved
YM5-25	Yellow mastic	Not Analyzed			
10015595_0025	TEM				

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Megan Javonovich (85)

Analyst

Nathaniel J. Durham

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT6-26	12"X12" brown floor tile	None Detected		100% Other	Brown, Black Non-Fibrous Homogeneous
10015595_0026	self stick tile				Dissolved
FT6-27	12"x12" brown floor tile	None Detected		100% Other	Brown, Black Non-Fibrous Homogeneous
10015595_0027	self stick tile				Dissolved
FT6-28	12"x12" brown floor tile	Not Analyzed			
10015595_0028	TEM				
FT7-29 - A	12"x12" gray floor tile and yellow mastic	None Detected		100% Other	Gray Non-Fibrous Homogeneous
10015595_0029	tile				Dissolved
FT7-29 - B	12"x12" gray floor tile and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0078	mastic				Dissolved
FT7-30 - A	12"x12" gray floor tile and yellow mastic	None Detected		100% Other	Gray Non-Fibrous Homogeneous
10015595_0030	tile				Dissolved
FT7-30 - B	12"x12" gray floor tile and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0079	mastic				Dissolved
FT7-31 - A	12"x12" gray floor tile and yellow mastic	Not Analyzed			
10015595_0031	TEM				

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Nathaniel J. Durham

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



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2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

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Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
YM8-32	Yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0032					Dissolved
YM8-33	Yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0033					Dissolved
YM8-34	Yellow mastic	Not Analyzed			
10015595_0034	TEM				
FT9-35 - A	12"x12" light blue floor tile and yellow mastic	None Detected		100% Other	Blue Non-Fibrous Homogeneous
10015595_0035	tile				Dissolved
FT9-35 - B	12"x12" light blue floor tile and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0080	mastic				Dissolved
FT9-36 - A	12"x12" light blue floor tile and yellow mastic	None Detected		100% Other	Blue Non-Fibrous Homogeneous
10015595_0036	tile				Dissolved
FT9-36 - B	12"x12" light blue floor tile and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0081	mastic				Dissolved
FT9-37	12"x12" light blue floor tile and yellow mastic	Not Analyzed			
10015595_0037	TEM				

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Megan Javonovich (85)

Analyst

Nathaniel J. Durham

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT10-38	12"x12" dark blue floor tile	None Detected		100% Other	Blue Non-Fibrous Homogeneous
10015595_0038	tile only				Dissolved
FT10-39	12"x12" dark blue floor tile	None Detected		100% Other	Blue Non-Fibrous Homogeneous
10015595_0039	tile only				Dissolved
FT10-40	12"x12" dark blue floor tile	Not Analyzed			
10015595_0040	TEM				
FT11-41	12"x12" white floor tile	None Detected		100% Other	White, Blue Non-Fibrous Homogeneous
10015595_0041	tile only				Dissolved
FT11-42	12"x12" white floor tile	None Detected		100% Other	White, Blue Non-Fibrous Homogeneous
10015595_0042	tile only				Dissolved
FT11-43	12"x12" white floor tile	Not Analyzed			
10015595_0043	TEM				
FT12-44 - A	12"x12" cream floor tile and yellow mastic	None Detected		100% Other	Cream Non-Fibrous Homogeneous
10015595_0044	tile				Dissolved
FT12-44 - B	12"x12" cream floor tile and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0086	mastic				Dissolved

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Analysis: PLM

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Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT12-45 - A	12"x12" cream floor tile and yellow mastic	None Detected		100% Other	Cream Non-Fibrous Homogeneous
10015595_0045	tile				Dissolved
FT12-45 - B	12"x12" cream floor tile and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0087	mastic				Dissolved
FT12-46	12"x12" cream floor tile and yellow mastic	Not Analyzed			
10015595_0046	TEM				
FT13-47	12"x12" black floor tile	None Detected		100% Other	Black Non-Fibrous Homogeneous
10015595_0047	tile only				Dissolved
FT13-48	12"x12" black floor tile	None Detected		100% Other	Black Non-Fibrous Homogeneous
10015595_0048	tile only				Dissolved
FT13-49	12"x12" black floor tile	Not Analyzed			
10015595_0049	TEM				
FT14-50 - A	12"x12" white floor tiles and yellow mastic	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0050	tile				Dissolved
FT14-50 - B	12"x12" white floor tiles and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0090	mastic				Dissolved

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and
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Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT14-51 - A	12"x12" white floor tiles and yellow mastic	None Detected		100% Other	White Non-Fibrous Homogeneous
10015595_0051	tile				Dissolved
FT14-51 - B	12"x12" white floor tiles and yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0091	mastic				Dissolved
FT14-52	12"x12" white floor tiles and yellow mastic	Not Analyzed			
10015595_0052	TEM				
YM15-53	Yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0053					Dissolved
YM15-54	Yellow mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0054					Dissolved
YM15-55	Yellow mastic	Not Analyzed			
10015595_0055	TEM				
FT16-56 - A	9"x9" floor tile and black mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0056	mastic 1				Dissolved
FT16-56 - B	9"x9" floor tile and black mastic	6% Chrysotile		94% Other	White Non-Fibrous Homogeneous
10015595_0092	tile				Dissolved

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



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Charleston, SC 29407

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Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
FT16-56 - C	9"x9" floor tile and black mastic	None Detected		100% Other	Black Non-Fibrous Homogeneous
10015595_0093	mastic 2				Dissolved
FT16-57 - A	9"x9" floor tile and black mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0057	mastic 1				Dissolved
FT16-57 - B	9"x9" floor tile and black mastic	6% Chrysotile		94% Other	White Non-Fibrous Homogeneous
10015595_0094	tile				Dissolved
FT16-57 - C	9"x9" floor tile and black mastic	None Detected		100% Other	Black Non-Fibrous Homogeneous
10015595_0095	mastic 2				Dissolved
FT16-58	9"x9" floor tile and black mastic	Not Analyzed			
10015595_0058	TEM				
TB17-59 - A	Black toe boards: cream mastic	None Detected		100% Other	Black Non-Fibrous Homogeneous
10015595_0059	toe board				Ashed
TB17-59 - B	Black toe boards: cream mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0098	mastic				Ashed
TB17-60 - A	Black toe boards: cream mastic	None Detected		100% Other	Black Non-Fibrous Homogeneous
10015595_0060	toe board				Ashed

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Bulk Asbestos Analysis

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EPA Method: 600/R-93/116 and
40 CFR, Part 763, Subpart E, App.E



Customer: GEL Engineering, LLC
2040 Savage Road
Charleston, SC 29407

Attn: Sarah Browning

Lab Order ID: 10015595

Analysis: PLM

Date Received: 02/07/2023

Date Reported: 02/08/2023

Date Amended: 02/15/2023

Project: MACO00123

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
TB17-60 - B	Black toe boards: cream mastic	None Detected		100% Other	Yellow Non-Fibrous Homogeneous
10015595_0096	mastic				Ashed
TB17-61	Black toe boards: cream mastic	Not Analyzed			
10015595_0061	TEM				
BUR18-62	Built-up roof material	None Detected	30% Fiber Glass	70% Other	Black Fibrous Heterogeneous
10015595_0062	built up roofing				Dissolved
BUR18-63	Built-up roof material	None Detected	30% Fiber Glass	70% Other	Black Fibrous Heterogeneous
10015595_0063	built up roofing				Dissolved
BUR18-64	Built-up roof material	Not Analyzed			
10015595_0064	TEM				

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Nathaniel J. Durham

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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: 10015595

Client Code: _____

Company Contact Information

Company: GEL Engineering

Contact: Sarah Browning

Address: 2040 Savage Rd

Phone ☐

Fax ☐

Email ☒

Sarah.browning@gel.com

Billing/Invoice Information

Company:

90 Min. ☐

48 Hours ☐

Contact: SAA

3 Hours ☐

72 Hours ☐

Address:

6 Hours ☐

96 Hours ☐

12 Hours ☐

120 Hours ☐

24 Hours ☒

144+ Hours ☐

PO Number:

Project Name/Number: MACO 00123

TEM = V

Please analyze PL1: TEM at same time

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM) ☒

Positive stop ☐

PLM Point Count 400 (PT4) ☐

PLM Point Count 1000 (PTM) ☐

PCM NIOSH 7400-A Rules (PCM) ☐

B Rules (PCB) ☐ TWA (PTA) ☐

TEM AHERA (AHE) ☐

TEM Level II (LII) ☐

TEM NIOSH 7402 (TNI) ☐

TEM Bulk Qualitative (TBL) ☐

TEM Bulk Chatfield (TBS) ☒

TEM Bulk Quantitative (TBQ) ☐

TEM Wipe ASTM D6480-05 ☐

TEM Microvac ASTM D5755-07 ☐

TEM Water EPA 100.2 (TW1) ☐

Other: ☐

Sample ID #	Description/Location	Volume/Area	Comments
GC1-1	Gray Canvas		
✓ GC1-2	↓		
GC1-3	↓		
DW2-4	Duplex Joint compound		
DW2-5	↓		
DW2-6	↓		
DW2-7	↓		
DW2-8	↓		
DW2-9	↓		
DW2-10	↓		

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
J. L. C.	2-6-23	CS	1:30pm 2/7

Accepted ☒

Relinquished ☐

Page 1 of 3

A-F-012 EXP: 3/4/2021



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

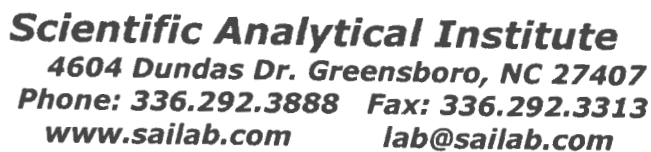
Lab Use Only

Lab Order ID:

Client Code:

10015595

Sample ID #	Description/Location	Volume/Area	Comments
PC 3-11	"Popcorn" Ceiling Texture		
PC 3-12			
PC 3-13			
PC 3-14			
PC 3-15			
PC 3-16			
PC 3-17			
TC 4-18	Textured Ceiling Material		
TC 4-19			
TC 4-20			
TC 4-21			
TC 4-22			
YM 5-23	Yellow Mastic		
✓ YM 5-24			
✓ YM 5-25			
FT 6-26	12"x12" Brown Floor Tile	} Analyze Floor Tile Only	
✓ FT 6-27			
✓ FT 6-28			
FT 7-29	12"x12" Gray Floor Tile and Yellow Mastic		
✓ FT 7-30			
✓ FT 7-31			
YM 8-32	Yellow Mastic		
✓ YM 8-33			
✓ YM 8-34			
FT 9-35	12"x12" Light Blue Floor Tile and Yellow Mastic		
✓ FT 9-36			
✓ FT 9-37			
FT 10-38	12"x12" Dark Blue Floor Tile	} Please analyze Floor Tile only	
FT 10-39			
✓ FT 10-40			
FT 11-41	12"x12" White Floor Tile	} Please analyze Floor tile only	
✓ FT 11-42			
✓ FT 11-43			
FT 12-44	12"x12" Cream Floor Tile and yellow Mastic		
✓ FT 12-45			
✓ FT 12-46			
FT 13-47	12"x12" Black floor tile	} Please analyze Floor Tile only	
FT 13-48			
✓ FT 13-49			



Client Code:

A-F-017 EXP:2-4/2021

APPENDIX 4.4

ASBESTOS INSPECTOR'S LICENSE AND TRAINING CERTIFICATE

SCDHEC ISSUED

Asbestos ID Card

Sarah Brown



CONSULTBI

BI-01095

Expiration Date:

09/26/23

AAA Environmental

2036 Chesnee Hwy. Spartanburg, South Carolina 29303 (864)582-1222

SARAH BROWNING

2040 Savage Road, Charleston, SC 29407

9435

has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved

AHERA Inspector Refresher Training Course

Spartanburg, SC

10-6312

Certificate Number

September 27, 2022

Course Date(s)

September 27, 2022

Examination Date



Karen J. Rhyne

Principal Instructor



Pamela A. Smith, Training Manager

September 27, 2023

Expiration Date

Technical Contact Hours: 3.75