

AHERA/NESHAP ASBESTOS PROJECT DESIGN

CLIENT:

Sylvia Frierson City of Sumter 13 E Canal Street Sumter, SC 29150

LOCATION:

43 Brent Street Sumter, SC

DATE OF DESIGN:

January 20, 2021

PREPARED BY:

Allyson Bowen, MPH
SC DHEC AHERA Asbestos Project Designer No. PD-00215
Expiration Date: September 8, 2021
SC DHEC AHERA Asbestos Inspector No. BI-01566
SC DHEC AHERA Asbestos Management Planner No. MP-00276
SC DHEC AHERA Asbestos Air Sampler No. AS-00542
SC DHEC AHERA Asbestos Supervisor No. SA-03051

SUMMIT Engineering, Laboratory & Testing, PC **(SUMMIT)**3575 Centre Circle
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SUMMIT Job No. 5563.E0010

AHERA/NESHAP ASBESTOS PROJECT DESIGN

43 Brent Street Sumter, SC

TABLE OF CONTENTS

SECTIO	<u>N</u>		<u>PAGE</u>
TABLE	OF CON	NTENTS	i
1.0	DOCUI	MENT INTENT	2
2.0	SCOPE	OF WORK	3
3.0	SUMM	//ARY OF WORK	4
4.0	DEFIN	ITIONS	5
5.0	PROJE 5.1 5.2 5.2	Action PlanProject Directory	10 10
6.0	SUBM	ITTALS	11
7.0	AIR M	ONITORING AND TEST LABORATORY SERVICES	12
8.0	REGUL	LATED AREAS	15
9.0	RESPIR	RATORY PROTECTION	16
10.0	MATE	RIALS AND EQUIPMENT	17
11.0	WORK 11.1	CAREA CLEAN UP AND VERIFICATIONREMOVAL OF ASBESTOS-CONTAINING MATERIAL	
12.0	DISPO	SAL OF ASBESTOS-CONTAINING WASTE MATERIAL	23

1.0 DOCUMENT INTENT

This document represents the Asbestos Abatement Specifications for the abatement of Asbestos Containing Materials (ACMs) for the City of Sumter at 43 Brent Street, Sumter, South Carolina. The CONTRACTOR shall be responsible for adhering to the Specifications contained in the Asbestos Abatement Specifications.

The Summary of Work is intended to limit the scope and locations of items of the Work included therein. It is not intended to limit the Scope of Work should plans, schedules or notes indicate an increased scope. Inadvertent omission of an item from its proper section of the Specifications and its inclusion in another section shall not relieve the CONTRACTOR of responsibilities for the item specified.

Project:

43 Brent Street, Sumter, SC

Consultant: SUMMIT Engineering Laboratory & Testing, PC

Allyson Bowen, MPH 3575 Centre Circle Fort Mill, SC 29715 (803)391.1863

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The CONTRACTOR shall assume full responsibility and liability for compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal and protection of workers, visitors to the site, and persons occupying areas adjacent to the site.

The CONTRACTOR shall be responsible for inspecting the site prior to commencing wok to confirm the scope of work. Any quantities listed by the designer in the plans, specifications or survey are so as approximations. The calculation and verification of actual quantities of materials to be encountered is the responsibility of the CONTRACTOR.

The CONTRACTOR has and assumes the responsibility of proceeding in such a manner that they offer their employees, the OWNER's representative, the CONSULTANT and any other authorized visitors, a workplace free of recognized hazards causing or likely to cause death or serious injury.

The CONTRACTOR will be responsible for all costs associated with employee monitoring to meet the OSHA requirements.

2.0 SCOPE OF WORK

Project Location

All of the work described within this report will be conducted at the following location:

Location:

43 Brent Street, Sumter, SC

Project Type: Asbestos Abatement Specifications for the removal of the following materials prior to demolition. Estimated quantities of ACM to be abated include:

- Approximately 125 square feet of sheet flooring.
- Approximately 30 square feet of sheet flooring.
- Approximately 100 square feet of significantly damaged sheet flooring.
- Approximately 10 square feet of remnant transite panels (cementitious siding).

The project involves the removal and disposal of the above noted items.

Ambient daily air monitoring and clearance shall be conducted.

The CONTRACTOR will be responsible for complete removal of the asbestos containing materials listed above in accordance with the project design.

Minimum respiratory protection will be half-face air-purifying respirators equipped with HEPA cartridges. The CONTRACTOR is responsible for selecting the appropriate respiratory protection for each work task and expected exposure to each employee.

The CONTRACTOR shall provide the following utility services for proper completion of the project: potable water and 110-volt electricity. The CONTRACTOR shall coordinate the location and availability of utilities through the OWNER. The CONTRACTOR shall ensure that all electrical cords are connected to GFI devices. Hoses and cords not suspended shall be taped to the floor utilizing caution tape in high traffic areas. The CONTRACTOR shall allow the CONSULTANT the use of the power and water as necessary to complete the air monitoring during the entire course of the project.

3.0 SUMMARY OF WORK

- A. Furnish all labor, materials, services, employee training and testing, permits, insurance (pertaining to asbestos abatement activity), tools and equipment necessary for safe completion of all work in accordance with all federal, state, local laws and regulations. The CONTRACTOR shall have complete understanding of all contract documents as supplied by CONSULTANT (SUMMIT). Work shall include abatement activities defined below and as represented by the accompanying drawings. The CONTRACTOR is responsible for securing the job site and is solely responsible for their materials and equipment.
- B. Abatement Work
- 1. Location:

43 Brent Street, Sumter, SC

Project Type: Asbestos Abatement Specifications for the removal of the following materials. Estimated quantities of ACM to be abated include:

Project Type: Class II (Friable, Interior) - RACM

Approximately 100 square feet of significantly damaged sheet flooring.

Project Type: Class II (Non-Friable, Interior)

- Approximately 125 square feet of sheet flooring.
- Approximately 30 square feet of sheet flooring.

Project Type: Class II (Non-Friable, Exterior)

Approximately 10 square feet of remnant transite panels (cementitious siding).

Qualifications

The CONTRACTOR shall be licensed by the South Carolina Department of Health and Environmental Control (SC DHEC) to abate asbestos containing materials in the state of South Carolina. CONTRACTOR's employees shall be licensed by SC DHEC in their respective job/worker category.

4.0 **DEFINITIONS**

- 1. "Abatement" - Procedures to control fiber release from regulated asbestos-containing materials. This includes removal, enclosure, encapsulation, repair, and any associated preparation, clean up and disposal activities having the potential to disturb regulated asbestos-containing material.
- 2. "Adequately wet" - To sufficiently mix or penetrate with liquid to prevent the potential release of particulates. The absence of visible emissions is not sufficient evidence of being adequately wet.
- "Aggressive clearance sampling" A method of sampling which uses electric fan(s), electric 3. leaf blower(s), and other devices to simulate vigorous activity in the abated area while air samples are being collected.
- 4. "AHERA" - Regulations developed pursuant to the Asbestos Hazard Emergency Response Act, 40 CFR Part 763, Asbestos Containing Materials in Schools (December 20, 1987).
- "AIHA" American Industrial Hygiene Association. 5.
- "Airlock" A chamber which permits entrance and exit with minimum air movement 6. between a contaminated area and an uncontaminated area, consisting of two doorways protected by two overlapping polyethylene sheets and separated by a sufficient distance such that one passes through one doorway into the chamber, allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway. The airlock maintains a pressure differential between the contaminated and uncontaminated areas, thereby minimizing flow-through contamination further.
- 7. "Air sampler - A person licensed by SC DHEC to implement air-monitoring plans and analysis schemes during abatement.
- 8. "Air sampling" - A method such as NIOSH 7400 for PCM, the OSHA Reference Method, 40 CFR 763 Appendix A for TEM, or an equivalent method accepted by SC DHEC used to determine the fiber content of a known volume of air during a specified period of time.
- 9. "Amended water" - Water to which a surfactant (for example, a non-sudsing detergent) has been added.
- 10. "Area air sampling" - Any form of air sampling whereby the sampling device is placed at a stationary location either inside or outside the regulated work area.
- 11. "Asbestos" - The asbestiform varieties of Serpentine (chrysotile), Riebeckite (crocidolite), Cummingtonite-Grunerite (amosite), Anthophyllite, and Actinolite-Tremolite.
- 12. "Asbestos Containing Material (ACM)" - Material containing asbestos of any type, either alone or mixed with other materials, in an amount greater than one percent (1%) as determined by using the method specified in 40 CFR Part 763, Appendix A, Subpart F, Section 1, as amended, or an accepted equivalent. (NOTE: "Appendix A to Subpart F" has been redesignated as, and shall hereinafter be referred to as, "Appendix E to Subpart E" -60 FR 31917, June 19, 1995.)
- "Asbestos containing waste materials" As applied to demolition and renovation 13. operations, this term includes regulated asbestos-containing waste materials and materials contaminated with asbestos, including disposable equipment and clothing.
- 14. "Asbestos project" - Any activity associated with abatement including inspection, design, air monitoring, in-place management, encapsulation, enclosure, renovation, repair, removal, any disturbance of regulated asbestos containing materials (RACM), and demolition of a facility.

- 15. "Asbestos project design" A written or graphic plan prepared by an accredited project designer specifying how an asbestos abatement project will be performed that includes, but is not limited to, scope of work and technical specifications.
- 16. "ASHARA" Regulations developed pursuant to 40 CFR Part 763, Subpart E, Appendix C Model Accreditation Plan, Asbestos School Hazard Abatement Reauthorization Act (November 28, 1992).
- 17. "Background monitoring" Area sampling performed prior to abatement to obtain an index of existing airborne fiber levels under typical activity.
- 18. "Category I nonfriable asbestos containing material (ACM)" Nonfriable asbestos or nonfriable asbestos-containing packing, gaskets, and resilient floor covering; and asphalt roofing products containing greater than one percent (1%) asbestos as determined using the method specified in 40 CFR Part 763, Appendix E, Subpart E, or an accepted equivalent.
- 19. "Category II nonfriable ACM" Any material that cannot, when dry, be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations, excluding Category I nonfriable ACM and containing greater than one percent (1%) asbestos as determined using the methods specified in 40 CFR Part 763, Appendix E, Subpart E, or an accepted equivalent.
- 20. "Clean room" An uncontaminated area or room that is part of the decontamination enclosure system and that has provisions for storage of street clothing and protective equipment.
- 21. "Clearance monitoring" Area air sampling performed using SC DHEC accepted aggressive clearance sampling techniques to determine the airborne concentrations of residual fibers upon conclusion of asbestos abatement.
- 22. "Contractor" Any individual, partnership, corporation or other business concern that performs asbestos abatement but is not a permanent employee of the facility owner.
- 23. "Control measure" Use of amended water, negative pressure differential equipment, encapsulant, high efficiency particulate air filtration device, glove bag or other state-of-the-art equipment designed to prevent fiber release into the air.
- 24. "Critical barrier" At minimum, two independent layers of 6-mil plastic sheeting applied to any opening into a work area in a manner that creates a leak-tight seal within the work area to isolate vents, windows, doors, switches, outlets, and any other cavity or opening to the contaminated work area.
- 25. "Cut" To penetrate with a sharp-edged instrument. This includes sawing, but may not include shearing, slicing, or punching.
- 26. "Decontamination enclosure system" An enclosed area adjacent and connected to the regulated work area consisting of an equipment room, shower area, and clean room, each separated by airlocks, that is used for the decontamination of employees, materials, and equipment that are contaminated with asbestos.
- 27. "Demolition" Wrecking or taking out any load-supporting structural member of a facility together with any related handling operations, the burning of any facility, or moving of a structure.
- 28. "SC DHEC" The South Carolina Department of Health and Environmental Control.
- 29. "Encapsulation" A form of abatement involving the treatment of regulated asbestos-containing material (RACM) with a liquid that covers the surface with a protective coating

- (bridging) or embeds fibers in an adhesive matrix (penetrating) to prevent the release of asbestos fibers.
- 30. "Enclosure" - A form of abatement involving placement of a leak-tight, impermeable, permanent barrier to prevent access to regulated asbestos-containing material and to prevent the release of asbestos fibers.
- 31. "EPA" - United States Environmental Protection Agency.
- 32. "Equipment room" - A contaminated area or room that is part of the decontamination enclosure system and that has provisions for the storage of contaminated clothing and equipment.
- "F/cc" Fibers per cubic centimeter. 33.
- 34. "Friable" - Refers to ACM, which may, when dry, be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of demolition or renovation operations. This also refers to previously non-friable ACM after such material becomes damaged to the extent that when dry, can be or has been crumbled, pulverized, or reduced to powder.
- 35. "Friable asbestos containing material" - Any material that, when dry, can be or has been crumbled, pulverized, or reduced to powder and contains greater than one percent (1%) asbestos as determined using the method specified in 40 CFR Part 763, Appendix E, Subpart E, as amended, or an accepted equivalent.
- 36. "Goose neck" - Process for sealing the outer bag by twisting the opening of the bag, folding twisted portion of bag over, and creating a loop. Adequately secure the opening of the bag to the base of the twist, using duct tape.
- 37. "Glovebag" - A sealed compartment with attached inner gloves used for the handling of asbestos containing materials. Information on glovebag installation, equipment and supplies, and work practices is contained in the Occupational Safety and Health Administration's (OSHA's) final rules on occupational exposure to asbestos, 29 CFR 1926.1101 (August 10, 1994), as amended, and any subsequent amendments or editions.
- 38. "HEPA filter" - A high efficiency particulate air filter that will capture particles with an aerodynamic diameter of 0.3 micrometers with a minimum efficiency of 99.97 percent.
- 39. "Homogeneous area" - Area of surfacing material, thermal system insulation material, or a miscellaneous material that is uniform in color or texture.
- 40. "HVAC" - Heating, ventilation, and air conditioning.
- 41. "In poor condition" - Refers to any ACM where the binding of the material is losing its integrity as indicated by peeling, cracking, or crumbling of the material.
- 42. "Installation" - Any building or structure or any group of buildings or structures at a single demolition or renovation site that are under the control of a single owner or operator (or of owners or operators under common control).
- "Leak-tight" Dust, solids, or liquids cannot escape or spill out. 43.
- 44. "License" - A document issued by SC DHEC that allows an asbestos abatement contractor, building inspector, project designer, management planner, air sampler, supervisor, worker, or other to engage in asbestos projects.
- 45. "Manometer" - Instrument for the measurement of gas pressure whose units are represented in inches of water column.
- 46. "Minor project" - A project where 25 or fewer square or linear feet of regulated asbestoscontaining material (RACM) are removed, or where 10 or fewer cubic feet of RACM off a facility component are cleaned up.

- 47. "Movable object" A structure within the work area that can be moved (e.g., chair, desk, etc.).
- 48. "Negative pressure differential equipment" A portable exhaust system equipped with a HEPA filter.
- 49. "NESHAP" National Emission Standards for Hazardous Air Pollutants, 40 CFR 61, Subpart M, February 3, 1994, as amended, and any subsequent amendments or editions.
- 50. "NESHAP project" An asbestos project which involves at least 160 square feet or 260 linear feet of regulated asbestos containing material (RACM), or 35 or more cubic feet of RACM off a facility component such that the area or length could not be measured prior to abatement. If several contemporaneous projects in the same area within the same building being performed by the same contractor are smaller than 160 square or 260 linear feet individually but add up to that amount, then the combination of the smaller projects shall be considered one NESHAP project.
- 51. "NIOSH" National Institute for Occupational Safety and Health.
- 52. "OSHA" Occupational Safety and Health Administration.
- 53. "Owner/operator" Any person or contractor who owns, leases, operates, controls, or supervises a facility being demolished or renovated, or any person who operates, controls, or supervises the demolition or renovation operation, or both.
- 54. "Owner's representative" A licensed supervisor, management planner, project designer, or air sampler designated by the facility owner to manage the asbestos project, and who serves to ensure that abatement work is completed according to specification and in compliance with all relevant statutes and regulations.
- 55. "Personal air sampling" A method used to obtain an index of an employee's exposure to airborne fibers. Samples are collected outside the respirator in the worker's breathing zone.
- 56. "Project designer" A person licensed by SC DHEC who is directly responsible for planning all phases of an asbestos abatement project design from project site preparation through complete disassembly of all abatement area barriers.
- 57. "Regulated area" An area established by the owner/operator of an asbestos project to demarcate areas where asbestos abatement activities are conducted; any adjoining area where debris and waste from such asbestos work is stored; and any work area within which airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limit.
- 58. "Regulated asbestos-containing material (RACM)" (a) Friable asbestos-containing material; (b) Category I nonfriable ACM that has become friable; (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, drilling, or abrading; or (d) Category II nonfriable ACM that is likely to become or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.
- 59. "Removal" Taking out RACM or facility components that contain or are covered with RACM from any facility.
- 60. "Renovation" Altering a facility or one or more facility components in any way, including the stripping or removal of RACM from a facility component. Operations in which load-supporting structural members are wrecked or taken out are demolitions.
- 61. "Repair" Returning damaged asbestos-containing material to an undamaged condition or to an intact state so as to prevent fiber release.

- 62. "Shower room" - A room located between the clean room and the equipment room in the decontamination enclosure system containing a shower with hot and cold or warm running water controllable at the tap.
- "Start date" The date printed on SC DHEC-issued asbestos abatement project license, 63. which indicates when asbestos renovation or demolition operations, including any abatement activity having the potential to disturb RACM, will begin.
- "Strip" To remove RACM from any part of a facility or facility component. 64.
- "Structures per square millimeter" Reporting measure for Transmission Electron 65. Microscopy (TEM) Analysis. TEM clearance requires fewer than 70 structures per square millimeter (70s/mm²).
- 66. "Supervisor" - A person licensed by SC DHEC and designated as the contractor's representative to provide direct on-site supervision and guidance to workers engaged in abatement of RACM.
- "Surfactant" A chemical wetting agent added to water to improve penetration, such as a 67. non-sudsing detergent.
- "Variance" Written SC DHEC approval for the use of alternative work practices at an 68. asbestos project.
- "Visible emissions" Any emissions that are visually detectable without the aid of 69. instruments that originate from RACM or asbestos-containing waste material or a regulated work area.
- 70. "Waste shipment record" - The shipping document, required to be originated, prepared, and signed by the waste generator, used to track and substantiate the disposition of asbestos-containing waste material.
- 71. "Wet cleaning" - The process of removing asbestos contamination from facility surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with amended water.
- 72. "Work area" - Designated rooms, spaces, or areas in which asbestos abatement activities are to be undertaken, or that may be contaminated as a result of such abatement activities.
- 73. "Worker" - A person licensed by SC DHEC to perform asbestos abatement under the direct guidance of an accredited and licensed supervisor.
- 74. "Working day" - Monday through Friday, including holidays that fall on any of the days Monday through Friday.

5.0 PROJECT COORDINATION

5.1 **Action Plan**

- A. Coordinate with OWNER/CONSULTANT to determine availability of facilities.
- В. Schedule abatement operations in the sequence required to obtain the best results where execution of one part of the Work depends on execution of other components, before or after its own execution.
- Where necessary, prepare memoranda for distribution to each party involved, outlining C. special procedures required for coordination. Include such items as SC DHEC notifications, surveys, notices, reports, CONTRACTOR lists, work schedules, and attendance at meetings.
- Prepare a plan of the procedures proposed for use in complying with the requirements of D. this specification. Include in the plan the location and layout of decontamination areas, the sequencing of asbestos work, and methods used to assure the safety of workers and visitors to the site. A disposal plan should include the location of the approved disposal site, a detailed description of the methods to be employed to control pollution, methods of removal to prohibit visible emissions, and packaging of removed asbestos debris.

5.2 **Project Directory**

- A. Develop and post a directory of all entities involved in the project. Include the CONTRACTOR'S principal staff assignments, including the Superintendent and other personnel in attendance at the site. Identify individuals, their duties and responsibilities. List business name, contact person, normal business and emergency telephone, pager and fax numbers, and addresses of:
 - CONTRACTOR'S 1. general superintendent, supervisory personnel, and CONTRACTOR'S home office
 - 2. Emergency services including but not limited to fire, ambulance, doctor, hospital, police, power company, telephone company, water company
 - 3. Local, state, and federal agencies with jurisdiction over the project.

5.2 Miscellaneous

- A. Workers are to dress appropriately when out of the construction area and in view of the public (e.g. street clothing unless involved in asbestos abatement activities). Workers are to decon and change into street clothes prior to exiting the sight barriers. Respirators shall remain in bags when not in use.
- В. No flames or flammable materials are to be used or brought into buildings. Solvents for the removal of resilient floor covering cutback adhesives must have a flashpoint greater than 140 degrees Fahrenheit.
- C. All electrical equipment shall utilize ground fault circuit interrupters (GFCI).
- D. The CONTRACTOR shall ensure an adequate number of fire extinguishers are on-site. A minimum of one fire extinguisher with a National Fire Protection Association rating of 10BC (dry chemical) shall be placed in each per 3000 square feet of containment space or fraction thereof, of containment area. Each fire extinguisher shall be maintained in a fully charged and operable condition.
- E. SC DHEC licenses and accreditations, current fit test certification, current training/refresher certificates and medical surveillance documentation for each worker involved in the abatement work must be on-site and made available for review to the CONSULTANT and SC DHEC upon request.

6.0 **SUBMITTALS**

- A. Have a complete bound set of pre-job submittals prior to the start of work. Work is prohibited until submittal package has been reviewed and approved by the PROJECT DESIGNER or their Designee. A copy of the approved submittals shall be kept in a 3-ring binder (project log) by the CONTRACTOR at the project site in the Clean Room or in the on-site office of the CONTRACTOR.
 - Notifications: Where applicable, provide copies of the Asbestos Permit application 1. and the notification for Demolition/Renovation, which provide written notice to all required agencies, including SC DHEC.
 - 2. Employee List: Provide copies of lists of Supervisors and Workers, along with their accreditation/license numbers.
 - 3. Medicals: Provide copies of current medical information indicating the employee has been medically cleared to wear respirator and perform the work outlined herein.
 - 4. Respirator Training: Copies of the most recent fit testing records, individually signed for each worker to be utilized on the project.
 - Project schedule: Time schedule for the project, outlining the proposed start date, 5. working hours and expected completion date.
 - 6. Initial Exposure Assessment: As required by the OSHA construction asbestos standard 29 CFR 1926.1101.
- В. Submit the following to the CONSULTANT upon the completion of the project:
 - All asbestos waste manifests within five (5) days of receipt from the landfill if not 1. previously submitted.
 - 2. Copy of all notes, logs and reports maintained or prepared by the CONTRACTOR'S security personnel within five (5) days of project completion if not previously submitted.
- C. Emergency telephone numbers for the local fire department, police department, and emergency medical services shall be posted at the entrance to the Clean Room.

7.0 AIR MONITORING AND TEST LABORATORY SERVICES

Α. **QUALITY ASSURANCE**

- All environmental baseline and daily air monitoring will be performed in accordance with the procedures outlined in the latest edition of the National Institute for Occupational Safety and Health (NIOSH) 7400 Method and guidelines issued by Environmental Protection Agency regarding detection limits.
- The OWNER has contracted **SUMMIT** to perform all required perimeter and area air В. monitoring during the abatement process.
- Samples shall be collected during abatement according to the following schedule: C. Background samples in the abatement area shall be collected prior to the CONTRACTOR starting. Daily air samples shall be collected during each 8-hour work shift. The daily air samples shall be collected a minimum 2.5-hours of every 4-hours worked, and not to exceed 4-hour intervals. Clearance samples shall only be collected after the area has passed final visual inspection by the Air sampler.
- D. The CONTRACTOR shall be responsible for personnel monitoring of his employees as regulated by OSHA 1926.1101 and must be conducted by SC DHEC licensed personnel.
- E. PHASE CONTRAST MICROSCOPY (PCM)

Interior

In each homogeneous Work Area or as required by the CONSULTANT, a minimum of five (5) PCM samples will be taken and analyzed as a baseline prior to the CONTRACTOR's mobilization to the site. PCM air samples both inside and outside of the work area will be obtained daily throughout the duration of the abatement to ensure public air space meets SC DHEC criteria. If baseline samples cannot be collected for any reason, they will be assumed to be Zero (0).

The air monitoring shall be as follows:

- For Class I and Class II friable containments, daily air monitoring requirements will be one (1) sample collected at the exit of the clean room, one (1) sample collected inside the dirty room, one (1) sample collected within 10 feet of the exhaust of the negative air machines and one (1) sample collected in the regulated area.
- For Class II non-friable containments, daily air monitoring requirements will be up to four (4) samples collected in the area of the abatement. The sample collection locations will be selected by the air monitor.

The number and volume of air samples taken, and analytical methods used by SUMMIT for sampling will generally be as follows:

1 0 0 1			
Location Sampled	Scheduled Number of	Minimum Volume	Filter Media
	Samples	(Liters)	
Inside Work Area	5	1,200	Mixed Cellulose Ester
(Initial Baseline)			
Outside Work Area	4	1,200	Mixed Cellulose Ester

(Daily)			
Inside Work Area	5	1,200	Mixed Cellulose Ester
(Clearance)			

Clearance sampling, as detailed in AHERA [763.90(i)(3)] consists of: five (5) clearance samples inside the work area plus one (1) field blank inside the work area; five (5) clearance samples outside the work area plus one (1) field blank outside the work area; plus, one (1) trip blank.

For this project, the above noted AHERA Clearance sampling shall be modified as such: Clearance samples outside the work area and the field blank sample outside the work area will not be collected and will be assumed to be Zero (0). The trip blank sample will also be assumed to be Zero (0).

Clearance sampling will be conducted for all interior friable and non-friable Class I and Class II work.

Clearance samples shall be by PCM analysis and verbal results will be available within 2 hours of completion of clearance sampling and approval to re-occupy the area. Upon completion of the project, CONSULTANT will provide OWNER and CONTRACTOR a written report detailing the air sampling results. The written report will be available within five (5) business days.

Analysis: Asbestos fibers on each 0.8-micron filter will be measured using analysis per NIOSH 7400 counting rules A.

Release Criteria: Decontamination of the project is complete as determined by the analytical protocol if each of the Work Area samples is below 0.01 fibers/cubic centimeter or (f/cc) 70 (structures) f/mm2. If the analysis of the Work Area samples fails to meet the release criteria, then the CONTRACTOR must cease demolition activities and reassess their abatement to bring the fiber count to below 0.01 f/cc or 70 structures/mm².

The CONTRACTOR is cautioned, however, that should interpretations be made, opinions be formed, and conclusions be drawn as a result of examining the test results, these interpretations, opinions and conclusions will be those made, formed and drawn solely by the CONTRACTOR. The CONTRACTOR is responsible for performing air tests required for its evaluation of the safety of its employees.

2. Exterior

PCM air samples both outside of the work area will be obtained daily throughout the duration of the abatement to ensure public air space meets SC DHEC criteria.

The number and volume of air samples taken, and analytical methods used by SUMMIT for sampling will generally be as follows:

Location Sampled	Scheduled Number of	Minimum Volume	Filter Media
	Samples	(Liters)	
Outside Work Area	4	1,200	Mixed Cellulose Ester
(Daily)			

The air monitoring shall be performed of the outside ambient air on each corner of the construction site (north, east, south and west).

Analysis: Asbestos fibers on each 0.8-micron filter will be measured using analysis per NIOSH 7400 counting rules A.

Fiber concentrations must be maintained below 0.1 f/cc at the edge of the regulated area.

8.0 **REGULATED AREAS**

Securing Work Area

Α. Secure work area from access by non-authorized personnel. Accomplish this, where possible, by constructing temporary barriers with signs and warning tape.

Demarcation of Regulated Area (Refer to Section 4.0)

Demarcate the Regulated Area with signs and barrier tape. Configure the Regulated Area to minimize the number of persons within the area and to protect persons outside the area from exposure to airborne concentrations of asbestos. Establish sight barriers utilizing black plastic sheeting inside the Regulated Area and post the Asbestos Signs so that they are out of public view.

Α. SIGNS

1. Signs must be posted (in both English and Spanish) at all entrances to the Regulated Area, at least 20" x 14", with the legend:

DANGER **ASBESTOS MAY CAUSE CANCER CAUSES DAMAGE TO LUNGS AUTHORIZED PERSONNEL ONLY** RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

- В. Post warning signs at each side of the building.
- C. Barrier tape must be used to establish the Regulated Area. Delineate the area with 3-inch wide polyethylene ribbon printed with the warning "CAUTION ASBESTOS REMOVAL". Install at a height of between three and four feet above the floor or ground level. The controlled access points shall be clearly marked with the signs required as noted above.
- D. General procedures
 - 1. Management of the Regulated Area is to be under the supervision of an OHSA Competent Person as described in Project Coordination.
 - Do not allow eating, drinking, smoking, chewing tobacco or gum, or 2. applying cosmetics in the Regulated Area.
 - 3. Before start of work, comply with requirements for worker protection in Respiratory Protection Section.

9.0 RESPIRATORY PROTECTION

General Requirements

Instruct and train each worker involved in asbestos abatement/demolition in proper respirator use and require that each worker always wear a respirator, properly fitted on the face in the Regulated Area from the start of any operation which may cause airborne asbestos fibers until the Regulated Area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the workplace or as required for other toxic or oxygen-deficient situations encountered. Respiratory protection will not be required during preparation of the Negative Pressure Enclosures and Regulated Areas. Minimum respiratory protection will be halfface air-purifying respirators equipped with HEPA cartridges.

Standards

Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in the regulations and standards, the more stringent requirement must be met.

- 1. SC DHEC- REGULATION 61-86.1, STANDARDS OF PERFORMANCE FOR ASBESTOS PROJECTS
- 2. OSHA U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910, Section 1001 and Section 134 and 29 CFR 1926.1101.
- 3. ANSI American National Standard Practices for Respiratory Protection, ANSI Z88.2-1990.
- 4. NIOSH National Institute for Occupational Safety and Health

Non-permitted respirators - Do not use single use, disposable or quarter face respirators.

10.0 **MATERIALS AND EQUIPMENT**

Utilities

- A. The CONTRACTOR shall supply electricity (110V) and potable water.
- B. The CONTRACTOR shall supply GFCI for all electrical circuits.

Tools and Equipment

- A. Respirators
 - 1. Respiratory protection will not be required during preparation of NPE's or Regulated Areas.
 - 2. Minimum respiratory protection will be half-face air-purifying respirators equipped with HEPA cartridges.
 - 3. All respirators must be NIOSH approved.
- В. Protective clothing shall meet or exceed minimum protective clothing requirements of Title 29 CFR 1926.1101 and include full body disposable coveralls, disposable hood (separate or integral to coverall) and foot coverings (reusable footwear, 18-inch high boot type disposable foot coverings or foot coverings integral to coverall).
- C. Decontamination system for non-friable removals shall be 6-mil poly on the floor outside the enclosure (regulated area). Decontamination system for friable removals shall consist of a "clean room", a "shower room", and an "equipment room". Each room shall be separated from each other and the work area by a "Z" flap airlock (or non-friable materials that are rendered friable).
- Filtration systems for drain lines from showers or other water sources carrying D. asbestos contaminated water shall have disposable type primary and secondary filters and, if necessary, sump pump. Primary filter shall pass particles 20 microns and smaller; secondary filters, 5 microns and smaller.
- E. Miscellaneous Equipment
 - 1. Low pressure sprayer for amended water applications.
 - 2. First Aid Kit must be on-site and available at the clean room.

Materials

- For wetting prior to disturbance of Asbestos-Containing Materials, use either Α. amended water or a removal encapsulant.
 - Amended water must result in the retardation of fiber release equal to or 1. greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.
 - 2. Encapsulant shall be penetrating or bridging type designed to provide the same retardation of fiber release as the amended water in the above.
- Polyethylene sheeting shall be 'true' 6-mil OR with a dart impact of 270 grams, В. tear resistance of 512 grams, and transverse direction of 2067 grams (check manufacturer's specifications). Wall polyethylene sheeting must be 'true' 4 mil OR the equivalent dart impact. Width of sheeting must be the largest size possible to minimize seams, clear, frosted or black, as indicated. Disposal bags must meet the

'true' 6-mil requirement for disposal of ACM. Manufacturer's specifications must be on-site for any other thickness that 'true' 6-mil poly.

Duct tape in 2" or 3" widths and spray cement formulated to stick aggressively to C. polyethylene sheeting.

11.0 **WORK AREA CLEAN UP AND VERIFICATION**

Provide general clean-up of work area concurrent with the removal of all asbestos-Α. containing materials. Do not permit accumulation of debris.

REMOVAL OF ASBESTOS-CONTAINING MATERIAL 11.1

Removal

Remove and properly dispose of all asbestos containing materials as specified in the Contact Documents in accordance with the methods and procedures outlined in the OSHA 29 CFR 1926.1101, 40 CFR Part 763, and 40 CFR 61, Subpart M, February 3, 1994, as amended, and any subsequent amendments or editions.

Maintain exposure levels below 0.1 fibers per cubic centimeter (f/cc) regardless of respiratory protection provided. The CONSULTANT'S PROJECT MANAGER reserves the right to order a cease in abatement activity should fiber counts exceed the PEL or visible emissions are observed until control measures are implemented to reduce fiber levels below the PEL and/or eliminate visible emissions.

Α. Removal of ACM utilizing Enclosures (Friable Class I/II Work, Interior, Full Containment).

Seal each opening between the work area and uncontaminated areas including windows, doorways, elevator openings, corridor entrances, drains, ducts, electrical outlets, grills, grates, diffusers, and skylights with a critical barrier consisting of at least two independent sheets of 6-mil or thicker polyethylene sheeting secured in place. These critical barriers must be maintained leak-tight for the duration of asbestos abatement.

Thoroughly clean and remove all movable objects from the work area.

Thoroughly clean, then cover and secure each non-movable object in the work area with at least one sheet of 4-mil or thicker polyethylene sheeting.

Use polyethylene sheeting to isolate contaminated from uncontaminated areas, and ensure the sheeting is attached securely in place and properly maintained at all times.

Prevent contamination of carpet with ACM or dispose of the carpet as asbestoscontaminated waste.

Cover floors not being abated with at least two layers of 6-mil or thicker polyethylene sheeting. Floor sheeting shall be installed first and shall extend at least 12 inches up the walls and be taped into place. No seams shall be located at wall/floor joints. Spray-applied polyethylene coating shall not be used.

Cover walls and ceilings not being abated with at least one sheet of 4-mil or thicker polyethylene sheeting. Wall sheeting shall be installed to minimize joints and shall extend at least six inches beyond wall/floor joint and be taped into place. Ceiling sheeting shall extend at least 12 inches down the wall and be sized and taped into place. No seams shall be located at wall/ceiling or wall/wall joints.

Construct a decontamination enclosure system adjoining the contained work area. The decontamination enclosure shall be built in a manner that will prevent track-out of RACM, and shall consist of: a clean room equipped with appropriate storage containers and adequate space for changing clothing; an air lock; a shower room containing hot and cold or warm running water controllable at the tap; and an equipment room suitable for storage of tools and equipment.

Construct a clear viewing port measuring at least 24 inches by 24 inches in an external wall of the contained work area to allow unobstructed observation of abatement activities in the work area.

Operate negative pressure differential equipment with HEPA filtration continuously from the time that barrier construction is completed through the time that acceptable final clearance air monitoring results are obtained.

The CONTRACTOR shall have the appropriate number of negative air machines to exchange the air inside the containment 4 times per hour and to maintain a minimum of -0.02 column inches of water pressure differential, relative to outside pressure as verified and recorded by a manometer.

Prior to removal, all RACM is thoroughly wet through to the substrate using amended water and shall remain wet until disposed of in accordance with 40 CFR 61.150, as amended, and any subsequent amendments and editions.

Carefully lower RACM to the ground or floor, not dropped or thrown; and at no time shall RACM be allowed to accumulate or become dry.

Polyethylene bags of at least 6-mil thickness shall be used for waste, bags shall be leaktight. Excess air (gooseneck) shall be removed from bags prior to sealing using a vacuum equipped with a HEPA filtration system in accordance with OSHA regulation 29 CFR 1926.1101, as amended, and any subsequent amendments and editions.

ACM from within the work area is not permitted outside of the work area except in sealed leak-tight containers.

Any person exiting or any equipment or machinery being removed from the contaminated work area shall be thoroughly decontaminated. If equipment or machinery is not or cannot be thoroughly decontaminated, it shall be sealed in leak-tight containers. No visible residue shall appear on the outside surface of the container.

Following abatement, a visual inspection of the abated substrate is performed. Upon passing the visual inspection, a coating of a compatible encapsulating agent is applied to porous surfaces that have been stripped and cleaned of ACM. The encapsulant must be allowed to thoroughly dry prior to additional cleaning or final air clearance.

If there is any evidence of contamination, the CONTRACTOR shall perform additional wet cleaning and HEPA vacuuming.

All polyethylene sheeting, except for critical barriers and the decontamination enclosure system, is removed and disposed of as asbestos-contaminated waste.

With only the critical barriers and decontamination enclosure system left in place, the entire work area, including any duct work, is wet-cleaned and HEPA vacuumed until no visible residue remains.

Ambient daily air monitoring during abatement shall be conducted.

Clearance air monitoring shall be conducted.

Areas exceeding clearance standards are re-cleaned by the contractor using wet methods and HEPA vacuuming. Re-cleaning, drying, and retesting shall be repeated until the satisfactory clearance standard is achieved.

Following satisfactory clearance of the work area, remaining polyethylene critical barriers and decontamination enclosure systems are removed and disposed of as asbestoscontaminated waste. The CONTRACTOR shall bear the costs of additional clearance testing.

В. Removal of ACM Flooring (Class II Work, Interior):

The CONTRACTOR shall remove the ACM in a non-friable manner. All ACM once removed in shall be: thoroughly wet during stripping or removal and shall remain wet until disposed of, carefully lowered to the ground or floor, not dropped or thrown, and at no time shall the ACM to accumulate or become dry.

Containment shall consist of splash guards along the walls, with only the critical barriers including any duct work and doorway.

Areas exceeding clearance standards are re-cleaned by the contractor using wet methods and HEPA vacuuming. Re-cleaning, drying, and retesting shall be repeated until the satisfactory clearance standard is achieved.

Ambient daily and clearance air monitoring during abatement shall be conducted.

Following satisfactory clearance of the work area, remaining polyethylene critical barriers are removed and disposed of as asbestos-contaminated waste.

If the non-friable materials cannot be removed in a non-friable manner, all Class II abatement work shall cease, the Project Designer shall be notified.

C. Removal of transite siding (Class II Work, Exterior):

The CONTRACTOR shall remove the ACM in a non-friable manner. All ACM once removed in shall be: thoroughly wet during stripping or removal and shall remain wet until disposed of, carefully lowered to the ground or floor, not dropped or thrown, and at no time shall the ACM to accumulate or become dry.

Ambient daily air monitoring during abatement shall be conducted.

Clearance shall consist of visual observation only.

12.0 DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIAL

- Dispose of ACM and used plastic sheeting, tape, cleaning materials and disposable Α. protective clothing as asbestos waste materials.
- Waste must be loaded, stored and transported in a 6 mil, poly-lined, rigid top truck В. or dumpster which can be locked or guarded from unauthorized access. Dumpster will remain closed and locked when not in use.
- Prepare for each load a SC DHEC Asbestos Waste Manifest and obtain signature on D. the waste manifest from the CONSULTANT'S PROJECT MANAGER prior to transporting waste.
- E. Dispose of asbestos waste in landfills approved by the EPA and/or the state as authorized disposal facilities for asbestos and operating in compliance with Title 40 CFR 61.156 at the time of disposal.
- Transport waste, accompanied by manifest, to an approved waste site for disposal F. as asbestos waste and provide the CONSULTANT'S PROJECT MANAGER a copy of manifest signed by the waste disposal facility representative.

Asbestos Inspections



AHERA/NESHAP ASBESTOS INSPECTION REPORT

CLIENT:

Sylvia Frierson City of Sumter 13 E Canal Street Sumter, SC 29150

LOCATION:

43 Brent Street Sumter, SC

DATE OF INSPECTION:

November 30, 2020

DATE OF REPORT:

January 4, 2021

PREPARED BY:

Allyson Bowen, MPH
SC DHEC AHERA Asbestos Building Inspector No. BI-01566
SC DHEC Asbestos Supervisor No. SA-03051
SC DHEC Asbestos Air Sampler No. AS-00542
SC DHEC Asbestos Project Designer No. PD-00215
Expiration Date: September 8, 2021

SUMMIT Engineering, Laboratory & Testing, P.C. **(SUMMIT)**3575 Centre Circle
Fort Mill, SC 29715
704-504-1717

SUMMIT Job No. 5563.E0010

AHERA/NESHAP ASBESTOS INSPECTION REPORT 43 Brent Street Sumter, SC

TABLE OF CONTENTS

SECT	<u>ION</u>		<u>PAGE</u>
TABL	E OF CO	NTENTS	ii
LIST (OF APPE	NDICES	ii
1.0	REPO	RT CERTIFICATION	1
2.0	EXEC	UTIVE SUMMARY	2
3.0	SUSPI	ECT MATERIALS	4
	3.1	Drywall and Joint Compound	
	3.2	Sheet Flooring (White)	
	3.3	Sheet Flooring (Tan Flooring/White Flooring/Floor Tile)	
	3.4	Sheet Flooring (White/Green/Blue Floorings)	4
	3.5	Sheet Flooring (Tan)	
	3.6	Sheet Flooring (Tan/Brown/Red/Blue Floorings)	
	3.7	Window Glaze	
	3.8	Felt Paper	5
	3.9	Transite Panels	6
	3.10	Roofing Systems	
4.0	CONC	CLUSIONS AND RECOMMENDATIONS	7

FIGURES

1.0 Site Location Map

LIST OF APPENDICES

- A Analytical Results
- B Asbestos Inspector's License
- C SUMMIT Documentation

1.0 REPORT CERTIFICATION

SUMMIT is pleased to provide environmental consulting services for Sylvia Frierson with the City of Sumter. Please contact this office at 704-504-1717 with any questions or comments regarding the findings submitted in this report.

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

Alley Bour

January 4, 2021

Allyson Bowen, MPH

Date

SC DHEC Asbestos Inspector No. BI-01566 Expiration Date: September 10, 2021 SC DHEC AHERA Supervisor No. SA-03051

Expiration Date: September 9, 2021

SC DHEC Asbestos Air Sampler No. AS-00542

Expiration Date: September 9, 2021

SC DHEC Asbestos Project Designer No. PD-00215

Expiration Date: September 8, 2021

2.0 EXECUTIVE SUMMARY

On November 30, 2020, SUMMIT Engineering, Laboratory & Testing, P.C. (**SUMMIT**) performed an AHERA/NESHAP Asbestos Inspection for Sylvia Frierson with the City of Sumter at a residential structure located at 43 Brent Street in Sumter, SC. The structure is currently vacant and will be demolished. The structure is approximately 900 square feet in size. The sample areas featured drywall and joint compound, various sheet floorings, window glaze, transite panels, felt paper, and roofing systems.

The purpose of this inspection was to investigate available records for the specification of asbestos containing material (ACM), inspect for suspect materials, sample and analyze suspect materials to test for asbestos, and assess the condition and location of the ACM and other characteristics of the structure. Materials were sampled by a licensed asbestos inspectors, Allyson Bowen and Belinda Campbell, of **SUMMIT** Engineering.

A homogeneous material is a material that appears to be uniform when properties such as age, color, and texture are compared. Ten (10) homogeneous areas were sampled. The homogeneous areas are described in detail in section 3.0 of this report.

Four (4) asbestos containing materials were identified within the structure.

SF-02-01- through 03

The multiple layers of sheet flooring and adhered floor tile were sampled from the kitchen. The results indicated that the floor tile is classified as an Asbestos Containing Material (ACM), with 2% Chrysotile asbestos. The material is classified as non-friable, miscellaneous material and is in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

SF-04-01- through 03

The sheet flooring was sampled from the bathroom. The results indicated that the sheet flooring is classified as an Asbestos Containing Material (ACM), with 15% Chrysotile asbestos. The material is classified as non-friable, miscellaneous material and is in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

SF-05-01- through 03

The sheet floorings were sampled from bedroom 2. The results indicated that the blue layer of sheet flooring is classified as an Asbestos Containing Material (ACM), with 10% Chrysotile asbestos. The material is classified as non-friable, miscellaneous material and is in significantly damaged condition with a low potential for damage. The sample analysis of the material is

enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

TP-01-01- through 03

The transite panels were sampled from the exterior siding. The results indicated that the transite panels are classified as Asbestos Containing Materials (ACM), with 20% Chrysotile asbestos. The materials are classified as non-friable, miscellaneous materials and are in significantly damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.0 SUSPECT MATERIALS

3.1 Drywall and Joint Compound

DW-01-01- through 05

The drywall and joint compound were sampled from various areas throughout the residence. The results indicated that these materials are not classified as Asbestos Containing Materials (ACM). The materials are classified as friable, surfacing materials and are in damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.2 <u>Sheet Flooring (White)</u>

SF-01-01- through 03

The sheet flooring was sampled from the back entry. The results indicated that the sheet flooring is not classified as an Asbestos Containing Material (ACM). The material is classified as non-friable, miscellaneous material and is in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.3 <u>Sheet Flooring (Tan Flooring/White Flooring/Floor Tile)</u>

SF-02-01- through 03

The multiple layers of sheet flooring and adhered floor tile were sampled from the kitchen. The results indicated that the floor tile is classified as an Asbestos Containing Material (ACM), with 2% Chrysotile asbestos. The material is classified as non-friable, miscellaneous material and is in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.4 <u>Sheet Flooring (White/Green/Blue Floorings)</u>

SF-03-01- through 03

The sheet flooring was sampled from bedroom 3. The results indicated that the sheet flooring is not classified as an Asbestos Containing Material (ACM). The material is classified as non-friable, miscellaneous material and is in damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.5 Sheet Flooring (Tan)

SF-04-01- through 03

The sheet flooring was sampled from the bathroom. The results indicated that the sheet flooring is classified as an Asbestos Containing Material (ACM), with 15% Chrysotile asbestos. The material is classified as non-friable, miscellaneous material and is in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.6 Sheet Flooring (Tan/Brown/Red/Blue Floorings)

SF-05-01- through 03

The sheet floorings were sampled from bedroom 2. The results indicated that the blue layer of sheet flooring is classified as an Asbestos Containing Material (ACM), with 10% Chrysotile asbestos. The material is classified as non-friable, miscellaneous material and is in significantly damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.7 Window Glaze

WG-01-01- through 03

The window glaze was sampled from the windows. The results indicated that this material is not classified as an Asbestos Containing Material (ACM). The material is classified as a friable, miscellaneous material and is in damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.8 Felt Paper

FP-01-01- through 03

The felt paper was sampled from the exterior siding. The results indicated that this material is not classified as an Asbestos Containing Material (ACM). The material is classified as a friable, miscellaneous material and is in significantly damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.9 Transite Panels

TP-01-01- through 03

The transite panels were sampled from the exterior siding. The results indicated that the transite panels are classified as Asbestos Containing Materials (ACM), with 20% Chrysotile asbestos. The materials are classified as non-friable, miscellaneous materials and are in significantly damaged condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

3.10 Roofing Systems

RS-01-01- through 03

The roofing systems were sampled from the roof. The results indicated that these materials are not classified as Asbestos Containing Materials (ACM). The materials are classified as non-friable, miscellaneous materials and are in good condition with a low potential for damage. The sample analysis of the material is enclosed in Appendix A. A detailed map showing the locations of the sampling locations can be found in the SUMMIT Documentation.

4.0 CONCLUSIONS AND RECOMMENDATIONS

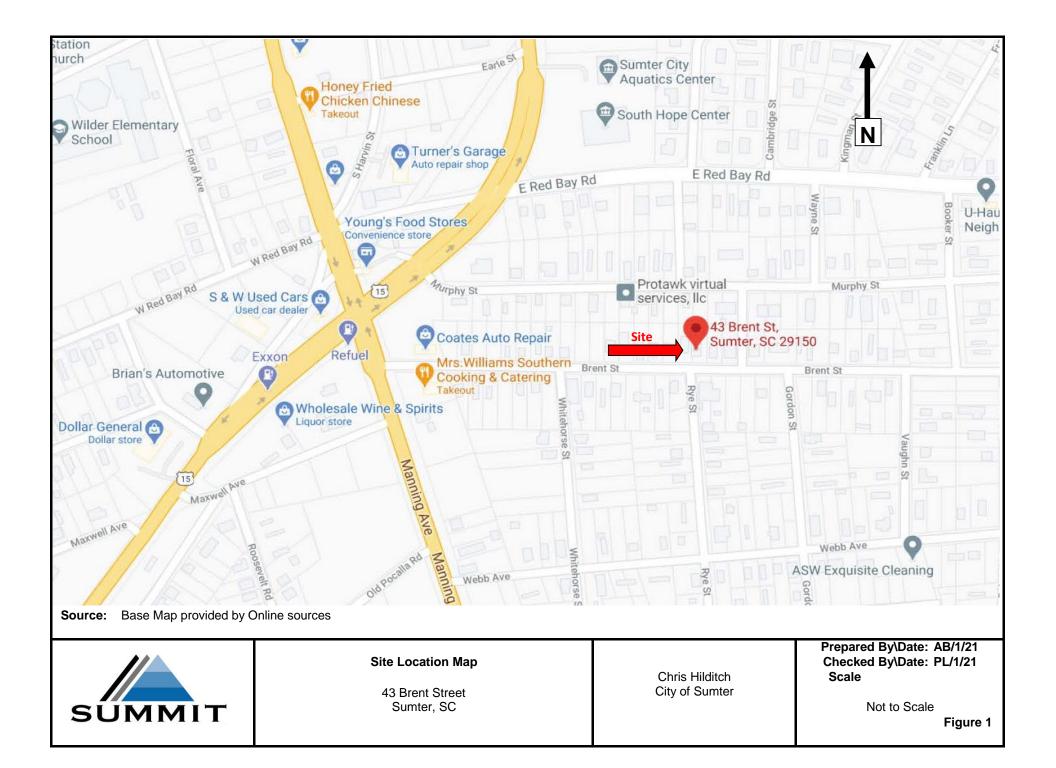
On November 30, 2020, SUMMIT Engineering, Laboratory & Testing, P.C. (**SUMMIT**) performed an AHERA/NESHAP asbestos inspection at 43 Brent Street, Sumter SC.

SUSPECT MATERIAL	ACM (Y/N)	FRIABLE (Y/N)	AMOUNT (Square feet)
Drywall and Joint Compound (DW-01)	N	Υ	3500
Sheet Flooring (SF-01)	Ν	N	50
Sheet Flooring (SF-02)	Υ	N	125
Sheet Flooring (SF-03)	N	N	150
Sheet Flooring (SF-04)	Υ	N	30
Sheet Flooring (SF-05)	Υ	Υ	100
Window Glaze (WG-01)	N	Υ	120
Felt Paper (FP-01)	N	Υ	10
Transite Panels (TP-01)	Υ	N	10
Roof Systems (RS-01)	N	N	900

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

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

FIGURES



APPENDIX A

ANALYTICAL RESULTS



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

CHAIN OF CUSTODY

LAB USE ONLY:	THE PERSON NAMED IN COLUMN
Summit Order Number: 1	M.1.14.5563.170010

COMPANY CONTACT IN	FORMATION					2 × 1/6		6 10 10	
Company: Summit ELT				Job Contact: A. Bowen					
Address: 3575 Centre Circle				Email: a	abowen@	summit-co	mpanies.	com	
Fort Mill, SC 29715				Tel: 803	3.391.186	3			
				Fax:					
Project Name: 43 Brent Street				State Co	ollected Ir	n: SC			
Project ID #: 5563.E0010									
			September 18	TURN AROUND TIME					
ASBESTOS	METHOD		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY	2 Week
PLM BULK	EPA 600								
PCM AIR	NIOSH 7400								
POSITIVE STOP ANALYSIS:									
COMMENTS: TEM's by	Monday 1/18	8							ot Samples t Samples
Relinquished By: Date/Ti		Time		Pocoi	ived By:		Dat	e/Time	
	Bowen 1/13/2021			/Nece	iveu by.		Date	er i iiiie	

Samples will be disposed of 60 days after analysis



SAMPLING FORM

LAB USE ONLY:	100 March 100	NE W	1	300
Summit Order Number:				

COMPANY CONTACT INFORMATION					
Company: SUMMIT ELT	Job Contact: A. Bowen				
Project Name: 43 Brent Street					
Project ID #: 5563.E0010	Tel: 803.391.1863				

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/AREA	DATE/TIME SAMPLED
DW-01-01	Drywall & Joint Compound / Throughout	PLM	
DW-01-02	Drywall & Joint Compound / Throughout	PLM	
DW-01-03	Drywall & Joint Compound / Throughout	PLM	_
DW-01-04	Drywall & Joint Compound / Throughout	PLM	
DW-01-05	Drywall & Joint Compound / Throughout	PLM	
SF-01-01	Sheet Flooring / Back Entry	PLM	
SF-01-02	Sheet Flooring / Back Entry	PLM	
SF-01-03	Sheet Flooring / Back Entry	TEM	
SF-02-01	Sheet Flooring / Kitchen	PLM	
SF-02-02	Sheet Flooring / Kitchen	PLM	
SF-02-03	Sheet Flooring / Kitchen	TEM	
SF-03-01	Sheet Flooring / Bedroom 3	PLM	
SF-03-02	Sheet Flooring / Bedroom 3	PLM	
SF-03-03	Sheet Flooring / Bathroom	TEM	
SF-04-01	Sheet Flooring / Bathroom	PLM	
SF-04-02	Sheet Flooring / Bathroom	PLM	
SF-04-03	Sheet Flooring / Bathroom	TEM	
SF-05-01	Sheet Flooring (Multiple) / Bedroom 2	PLM	
SF-05-02	Sheet Flooring (Multiple) / Bedroom 2	PLM	
SF-05-03	Sheet Flooring (Multiple) / Bedroom 2	TEM	
WG-01-01	Window Glaze / Windows	PLM	
WG-01-02	Window Glaze / Windows	PLM	
WG-01-03	Window Glaze / Windows	TEM	
FP-01-01	Felt Paper / Under Exterior Siding	PLM	
FP-01-02	Felt Paper / Under Exterior Siding	PLM	
FP-01-03	Felt Paper / Under Exterior Siding	TEM	
TP-01-01	Transite Panels / Exterior Siding	PLM	
TP-01-02	Transite Panels / Exterior Siding	PLM	
TP-01-03	Transite Panels / Exterior Siding	TEM	



SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/AREA	DATE/TIME SAMPLED
RS-01-01	Roofing Systems / Roof		
RS-01-02	Roofing Systems / Roof		
RS-01-03	Roofing Systems / Roof		
		_	

Asbestos Laboratory Report

Prepared for

Summit ELT, P.C.

Project: 43 Brent Street

Summit #: 2021-1-14-5563.E0010

Date Analyzed: 1/18/2021

Date Reported: 1/18/2021

Total Samples Analyzed: 35

Samples >1% Asbestos: 4

Method of Analysis: EPA 600 / R93 / 116



3575 Centre Circle, Fort Mill, SC 29715 Summit Order: 2021-1-15-5563.E0010

Phone: (704) 504-1717

Date Received: 1/15/2021

Date Analyzed: 1/18/2021

Date Reported: 1/18/2021

Summit ELT, P.C. 3575 Centre Circle Fort Mill, SC 29715

Project: 43 Bent Street

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

				<u>Asbestos</u>	
Sample ID	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
DW 1-1-Drywall	Drywall & Joint	Gray,Brown	10% Cellulose	90% Non-fibrous	None Detected
	Compound	Fibrous		(other)	
2021-1-14-5563.E0010-1		Homogeneous			
DW 1-1-Joint Compound	Drywall & Joint	White		100% Non-fibrous	None Detected
	Compound	Non-fibrous		(other)	
2021-1-14-5563.E0010-1A		Homogeneous			
DW 1-2-Drywall	Drywall & Joint	Gray,Brown	10% Cellulose	90% Non-fibrous	None Detected
	Compound	Fibrous		(other)	
2021-1-14-5563.E0010-2		Homogeneous			
DW 1-2-Joint Compound	Drywall & Joint	White		100% Non-fibrous	None Detected
	Compound	Non-fibrous		(other)	
2021-1-14-5563.E0010-2A		Homogeneous			
DW 1-3-Drywall	Drywall & Joint	Gray,Brown	10% Cellulose	90% Non-fibrous	None Detected
•	Compound	Fibrous		(other)	
2021-1-14-5563.E0010-3	·	Homogeneous		, ,	
DW 1-3-Joint Compound	Drywall & Joint	White		100% Non-fibrous	None Detected
·	Compound	Non-fibrous		(other)	
2021-1-14-5563.E0010-3A	•	Homogeneous		,	
DW 1-4-Drywall	Drywall & Joint	Gray,Brown	10% Cellulose	90% Non-fibrous	None Detected
•	Compound	Fibrous		(other)	
2021-1-14-5563.E0010-4	•	Homogeneous		,	
DW 1-4-Joint Compound	Drywall & Joint	White		100% Non-fibrous	None Detected
·	Compound	Non-fibrous		(other)	
2021-1-14-5563.E0010-4A	·	Homogeneous		, ,	
DW 1-5-Drywall	Drywall & Joint	Gray,Brown	10% Cellulose	90% Non-fibrous	None Detected
•	Compound	Fibrous		(other)	
2021-1-14-5563.E0010-5	•	Homogeneous		,	
DW 1-5-Joint Compound	Drywall & Joint	White		100% Non-fibrous	None Detected
·	Compound	Non-fibrous		(other)	
2021-1-14-5563.E0010-5A		Homogeneous		(3.3.7)	
SF 1-1	Sheet Flooring	White	10% Cellulose	90% Non-fibrous	None Detected
	3	Fibrous		(other)	
2021-1-14-5563.E0010-6		Homogeneous		(11)	
SF 1-2	Sheet Flooring	White	10% Cellulose	90% Non-fibrous	None Detected
	og	Fibrous		(other)	
2021-1-14-5563.E0010-7		Homogeneous		(5.1.51)	
SF 2-1-Tan Flooring	Sheet Flooring	Tan,Green	20% Cellulose	80% Non-fibrous	None Detected
	g	Fibrous		(other)	
2021-1-14-5563.E0010-8		Homogeneous		(0)	
SF 2-1-White Flooring	Sheet Flooring	White	12% Cellulose	88% Non-fibrous	None Detected
5	5oct 1 1001111g	Fibrous	/0 001101000	(other)	
2021-1-14-5563.E0010-8A		Homogeneous		(other)	

Analyst(s): Maria Cao Page 2 of 6



3575 Centre Circle, Fort Mill, SC 29715 Summit Order: 2021-1-15-5563.E0010

Phone: (704) 504-1717

Date Received: 1/15/2021

Date Analyzed: 1/18/2021

Date Reported: 1/18/2021

Summit ELT, P.C. 3575 Centre Circle Fort Mill, SC 29715

Project: 43 Bent Street

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

				n-Asbestos	<u>Asbestos</u>	
Sample ID	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos	
SF 2-1-Floor Tile 2021-1-14-5563.E0010-8B	Sheet Flooring	Gray Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile	
SF 2-2	Sheet Flooring				Positive stop (not analyzed)	
2021-1-14-5563.E0010-9						
SF 2-3	Sheet Flooring				Positive stop (not analyzed)	
2021-1-14-5563.E0010-10	Object Floories	VA/II-14 -	400/ O-H-I	000/ No. 61-	Mana Datastad	
SF 3-1-White Flooring	Sheet Flooring	White Fibrous	12% Cellulose	88% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-11	Chart Flagring	Homogeneous	OFO/ Callulana	750/ Non-Ehraus	News Datastad	
SF 3-1-Green Flooring	Sheet Flooring	Green Fibrous	25% Cellulose	75% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-11A	O	Homogeneous	000/ 0 !! !	2007 11 (1)		
SF 3-1-Blue Flooring	Sheet Flooring	Blue Fibrous	20% Cellulose	80% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-11B		Homogeneous				
SF 3-2-White Flooring	Sheet Flooring	White Fibrous	12% Cellulose	88% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-12		Homogeneous				
SF 3-2-Green Flooring	Sheet Flooring	Green Fibrous	25% Cellulose	75% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-12A		Homogeneous				
SF 3-2-Blue Flooring	Sheet Flooring	Blue Fibrous	20% Cellulose	80% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-12B		Homogeneous				
SF 4-1	Sheet Flooring	Tan Fibrous		85% Non-fibrous (other)	15% Chrysotile	
2021-1-14-5563.E0010-13		Homogeneous				
SF 4-2	Sheet Flooring				Positive stop (not analyzed)	
2021-1-14-5563.E0010-14						
SF 4-3	Sheet Flooring				Positive stop (not analyzed)	
2021-1-14-5563.E0010-15						
SF 5-1-Tan Flooring	Sheet Flooring	Tan Fibrous	25% Cellulose	75% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-16		Homogeneous				
SF 5-1-Brown Flooring	Sheet Flooring	Red,Brown Fibrous	20% Cellulose	80% Non-fibrous (other)	None Detected	
2021-1-14-5563.E0010-16A		Homogeneous				

Analyst(s): Maria Cao Page 3 of 6



3575 Centre Circle, Fort Mill, SC 29715 Summit Order: 2021-1-15-5563.E0010

Phone: (704) 504-1717

Date Received: 1/15/2021

Date Analyzed: 1/18/2021

Date Reported: 1/18/2021

Summit ELT, P.C. 3575 Centre Circle Fort Mill, SC 29715

Project: 43 Bent Street

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

			<u>No</u>	<u>Asbestos</u>	
Sample ID	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
SF 5-1-Red Flooring	Sheet Flooring	Red,Beige Fibrous	20% Cellulose	80% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-16B		Homogeneous			
SF 5-1-Blue Flooring	Sheet Flooring	Blue,Beige Fibrous		90% Non-fibrous (other)	10% Chrysotile
2021-1-14-5563.E0010-16C		Homogeneous			
SF 5-2	Sheet Flooring				Positive stop (not analyzed)
2021-1-14-5563.E0010-17					
SF 5-3	Sheet Flooring				Positive stop (not analyzed)
2021-1-14-5563.E0010-18					
WG 1-1	Window Glaze	White Non-fibrous		100% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-19		Homogeneous			
WG 1-2	Window Glaze	White Non-fibrous		100% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-20		Homogeneous			
FP 1-1	Felt Paper	Black Fibrous	50% Cellulose	50% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-21		Homogeneous			
FP 1-2	Felt Paper	Black Fibrous	50% Cellulose	50% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-22		Homogeneous		(3.5.2.)	
TP 1-1	Transite Panels	White,Gray Fibrous		80% Non-fibrous (other)	20% Chrysotile
2021-1-14-5563.E0010-23		Homogeneous		()	
TP 1-2	Transite Panels				Positive stop (not analyzed)
2021-1-14-5563.E0010-24					
TP 1-3	Transite Panels				Positive stop (not analyzed)
2021-1-14-5563.E0010-25					
RS 1-1-Gray Shingle	Roofing Systems	Gray Fibrous	5% Glass	95% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-26		Homogeneous		, ,	
RS 1-1-Brown Shingle	Roofing Systems	Brown Fibrous	5% Glass	95% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-26A		Homogeneous			
RS 1-2-Gray Shingle	Roofing Systems	Gray Fibrous	5% Glass	95% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-27		Homogeneous		` '	

Analyst(s): Maria Cao Page 4 of 6



3575 Centre Circle, Fort Mill, SC 29715 Summit Order: 2021-1-15-5563.E0010

Phone: (704) 504-1717

Date Received: 1/15/2021

Date Analyzed: 1/18/2021

Date Reported: 1/18/2021

Summit ELT, P.C. 3575 Centre Circle Fort Mill, SC 29715

Project: 43 Bent Street

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

		3	No.	on-Asbestos	<u>Asbestos</u>
Sample ID	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
RS 1-2-Brown Shingle	Roofing Systems	Brown Fibrous	5% Glass	95% Non-fibrous (other)	None Detected
2021-1-14-5563.E0010-27A		Homogeneous		,	

Analyst(s): Maria Cao Page 5 of 6



METHOD: EPA 600 / R93 / 116

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

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Analyst(s):	Mario Clas	Approved By:
	Maria Cao	Michael Zavislak,
		Approved Signatory

NVLAP Lab Code 600041-0

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

OrderID: 412100343



Asbestos Chain of Custody EMSL Order Number (lab use only):

412100343

PHONE:

Company Name: Summit ELT, P.C.			EMSL Customer ID:					
Street: 3575 Centre Circle			City: Fort Mill			State or Pro	vince: SC	
Zip/Postal Code: 29715 Country: US			Telephone #: Fax #:					
Report To (Name): Ally Bowen			Please Provide Results via: Fax Email					
email Address: abowen@summit-companies.com			Purchase Order Number:					
Guerra rejection	ent Street / S	5563.E0010	EMSL Project ID (internal use only):					
State or Province Collect	ed: SC		CT	only 🗌 C	Commercia	I/Taxable	Residenti	al/Tax Exempt
EMSL-Bill to: Same Different - If bill to is different note instructions in comment. Third party billing requires written authorization from third party								
Turnaround Time (TAT) Options Please Check 3 Hr ¹ 4-4.5Hr ¹ AHERA GOND G Hr ¹ 24 Hr 32 Hr ² 48 Hr 72 Hr 96 Hr 1 Week 2 Week								
3 Hr ¹ 4-4.5Hr ¹ AHERA only 6 Hr ¹ 24 Hr 32 Hr ² 48 Hr 72 Hr 96 Hr 1 Week 2 Week 1 Premium Service Charge applies for 3 Hour TEM AHERA or EPA Level II TAT – you will be asked to sign an authorization form. TEM Air 3-6 Hour, please call ahead to schedule 2 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.								
PCM - Air		TEM - Air1			TEM- Set	tled Dust		
☐ NIOSH 7400		☐ AHERA 40 CFR, Part 763			☐ Microvac - ASTM D 5755			
☐ w/ OSHA 8hr. TWA		☐ NIOSH 7402			☐ Wipe - ASTM D6480			
PLM - Bulk (reporting lim	it)	☐ EPA Level II			☐ Carpet Sonication (EPA 600/J-93/167)			
☐ PLM EPA 600/R-93/116	6 (<1%)	☐ ISO 10312			Soil - Rock - Vermiculite (reporting limit)			
☐ PLM EPA NOB (<1%)		TEM - Bulk						illing prep (<0.25%)
Point Count	(-0.40()	TEM EPA NOB		10.0	☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)*			
☐ 400 (<0.25%) ☐ 1000 ((<0.1%)	NYS NOB 198.4 (non-friable-NY) TEM EPA 600/R-93/116 with milling			☐ TEM Qualitative via Filtration Prep☐ TEM Qualitative via Drop Mount Prep			
☐ 400 (<0.25%) ☐ 1000 ((<0.1%)	prep (<0.1%)*		☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM				
NYS 198.1 (friable - NY		TEM - Water: EPA 100.2		Lower reporting limits available on request				
☐ NYS 198.6 NOB (non-friable-NY)		Fibers >10µm		Other tes	est (please specify):			
☐ NYS 198.8 SOF-V ☐ NIOSH 9002 (<1%)		All Fiber Sizes Waste Drinking						
☐ Stop At First Positive	(clearly iden	tify homogenous areas belo	w)	Filter	Pore Size (Air Samp	les): 🗌 0.8µ	ım 🗌 0.45μm
Sampler's Name:			s	ampler's	Signature	:		
Sample #		Sample Description/Lo	catio	on		1 2000	e, Area or enous Area	Date/Time Sampled
SF-01-03	Sheet F	looring						
SF-03-03	White F	White Floor, Green Floor, Blue Floor						
WG-01-03	Window	Window Glaze						
FP-01-03	Felt Paper							
RS-01-03	Gray Shingle, Brown Shingle							
Client Sample # (s): - Total # of Samples:								
Relinquished by (Client): Christopher Estes Date: 1/14/2021 Time:								
Received by (Lab): Date: \\15/2\ Time: 7:15 \alpha_1								
Comments/Special Instructions:								
hesults by Monday, January 18								

Controlled Document - COC-05 Asbestos - R12.1 - 11/01/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

Page 1 of _____ pages



EMSL Order: 412100343 Customer ID: SECS21A

Customer PO: Project ID:

Collected Date:

Fax:

Attention: Ally Bowen Phone: (803) 547-8107

Summit Engineering & Construct. Services

3575 Centre Circle Received Date: 01/15/2021 8:49 AM

Fort Mill, SC 29715 Analysis Date: 01/16/2021

Project: 43 Brent Street / 5563.E0010

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

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
SF-01-03 412100343-0001	Sheet Flooring	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
SF-03-03-White Flooring 412100343-0002	White Floor, Green Floor, Blue Floor	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
SF-03-03-Green Flooring 412100343-0002A	White Floor, Green Floor, Blue Floor	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
SF-03-03-Blue Flooring 412100343-0002B	White Floor, Green Floor, Blue Floor	Blue/Yellow/Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
WG-01-03 412100343-0003	Window Glaze	Gray Non-Fibrous Homogeneous	99.12 Other	None	0.88% Chrysotile
FP-01-03 412100343-0004	Felt Paper	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
RS-01-03-Gray Shingle 412100343-0005	Gray Shingle, Brown Shingle	Gray/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
RS-01-03-Brown Shingle 412100343-0005A	Gray Shingle, Brown Shingle	Brown/Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)		
Aaron Hartley (8)		

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/18/2021 07:38:24

APPENDIX B

INSPECTOR'S LICENSES

SCDHEC ISSUED

Asbestos ID Card

Allyson Bowen



AIRSAMPLER AS-00542 09/09/21 CONSULTBI BI-01566 09/10/21 CONSULTMP MP-00276 09/08/21 SUPERAHERA SA-03051 09/09/21

Expiration Date:

APPENDIX C

SUMMIT DOCUMENTATION

SITE PHOTOGRAPHS



This photo depicts the front of the residence.



This photo depicts the roof systems on the front of the residence.



This photo depicts the window glaze sampled from the windows.



This photo depicts the front of the residence where remnant transite was sampled.



This photo depicts the living room.



This photo depicts the dining room.



This photo depicts the bedroom.



This photo depicts another bedroom.



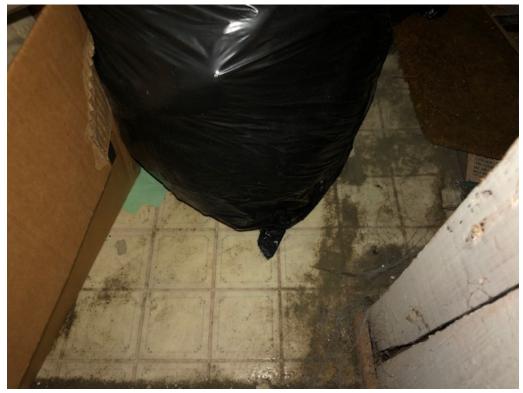
This photo depicts various layers of sheet flooring sampled from bedroom 2.



This photo depicts the kitchen.



This photo depicts the sheet flooring sampled from the kitchen.



This photo depicts the sheet flooring sampled from the bathroom.



This photo depicts the sheet flooring sampled from the kitchen and back entry.



This photo depicts the sheet flooring sampled from bedroom 3.



This photo depicts remnant transite panels on the siding.

45×20 43 Brent street 15 windows.

LIVINI BROWN capet DMWRII - NO JC

Root Shingles

Bed 1

Felt paper Remnaht Transite

Dywall

window glaze.

Ed 2 Wood Panel DN celling coupet.

MARGI

sheet traving-small square st-025

(2-17/101-more) 40 75 Kitchen

encet Froming- 3 lanen.

Back EVM

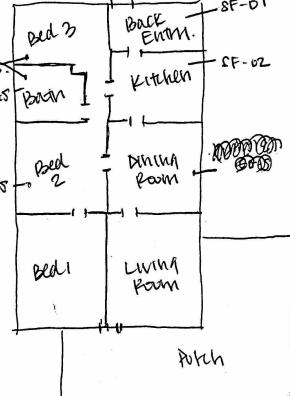
(ordroigh) 40-15 TOP sheet Frooming in

Fitchen same in here. shelt nowing @ enty.

ped 3

Suct Fromng-man Equate like Both

ALL THE More layer.



Pront.



