

PRE-DEMOLITION HAZARDOUS / REGULATED MATERIAL REPORT

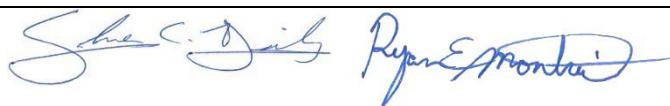


**9937 EVERGREEN
Detroit, MI 48228**

Prepared for
City of Detroit Demolition Department
1301 Third Street, 6th Floor
Detroit, Michigan 48226

Prepared by
The Mannik & Smith Group, Inc.
2365 South Haggerty Road
Canton, MI 48188

**REPORT DATE
April 29, 2022**

Survey and Inspection Details	
Project Number:	2022 BPO 3.3.2022C1
Date(s) of Survey/Inspection:	03/25/2022
Reason for Re-Survey/Re-Inspection	NA
Inspector(s) Name(s):	Eric Haas
Inspector(s) Accreditation #:	A58290
Inspector(s) Email(s):	ehaas@manniksmithgroup.com
Inspector(s) Phone #:	(734)-397-3100
Inspector(s) Signature(s):	
Reviewer(s) Name(s):	Shane Dailey, Ryan Montri
Reviewer(s) Accreditation #:	A42327, A41444
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Reviewer(s) Phone #:	734-397-3100
Reviewer(s) Signature(s):	

ASBESTOS CONTAINING MATERIALS

Sample ID	Material Description	Presumed	Material Classification	Location (FS / EA)	Estimated Quantity
AS 1-1	Transite	No	Miscellaneous	EA-[1,2,3,4]	1900 SF
AS 7-1	Exterior Caulk	No	Miscellaneous	EA-[1,2,3,4]	300 LF
AS 10-1	Driveway Expansion Joint	No	Miscellaneous	EA-[6]	30 LF
AS 22-1	Stack Cement	No	Miscellaneous	FS-[1]	10 SF
AS 24-1	Duct Wrap	No	TSI	FS-[1]	35 SF

OTHER HAZARDOUS / REGULATED MATERIALS

Material Description	Location (FS / EA)	Estimated Quantity	Additional Information
Gas Regulator	FS-[1]	1 Each	NA
CFL	FS-[2,3,7,9,6]	10 Each	NA
Microwave	FS-[3]	2 Each	NA
Television	FS-[7]	1 Each	NA

Property Photos



EA-1: Front of House



EA-2: Left Side of House



EA-3: Back of House



EA-4: Right Side of House



EA-5: House Roof

Property Photos



EA-6: Front of Garage



EA-7: Left Side of Garage



EA-8: Back of Garage



EA-9: Right Side of Garage



EA-10: Garage Roof



Garage Interior

Universal Waste and Hazardous Materials



1 Each
Gas Regulator
FS-[1]



1 Each
Television
FS-[7]



10 Each
CFL
FS-[2,3,7,9,6]



2 Each
Microwaves
FS-[3]

Samples



AS 1-1
Transite



AS 4-1
Window/Door Sill



AS 2-1
Black Siding Underlayment



AS 5-1
Porch Concrete



AS 3-1
Underlayment Strip



AS 6-1
CMU Mortar

Samples



AS 7-1
Exterior Caulk



AS 10-1
Driveway Expansion Joint



AS 8-1
House Window Glaze



AS 11-1
Garage Roof Shingles



AS 9-1
House Roof Shingles



AS 12-1
Plaster On Backerboard

Samples



AS 13-1
Grey 9" Floor Tile



AS 16-1
White Glue Pods



AS 14-1
Faux Wood 9" Floor Tile



AS 17-1
Kitchen Backsplash



AS 15-1
Yellow 9" Floor Tile



AS 18-1
Bath Mortar

Samples



AS 19-1
Floor Mortar



AS 22-1
Stack Cement



AS 20-1
Cream 12" Floor Tile



AS 23-1
Vibration Dampener



AS 21-1
12" Ceiling Tile



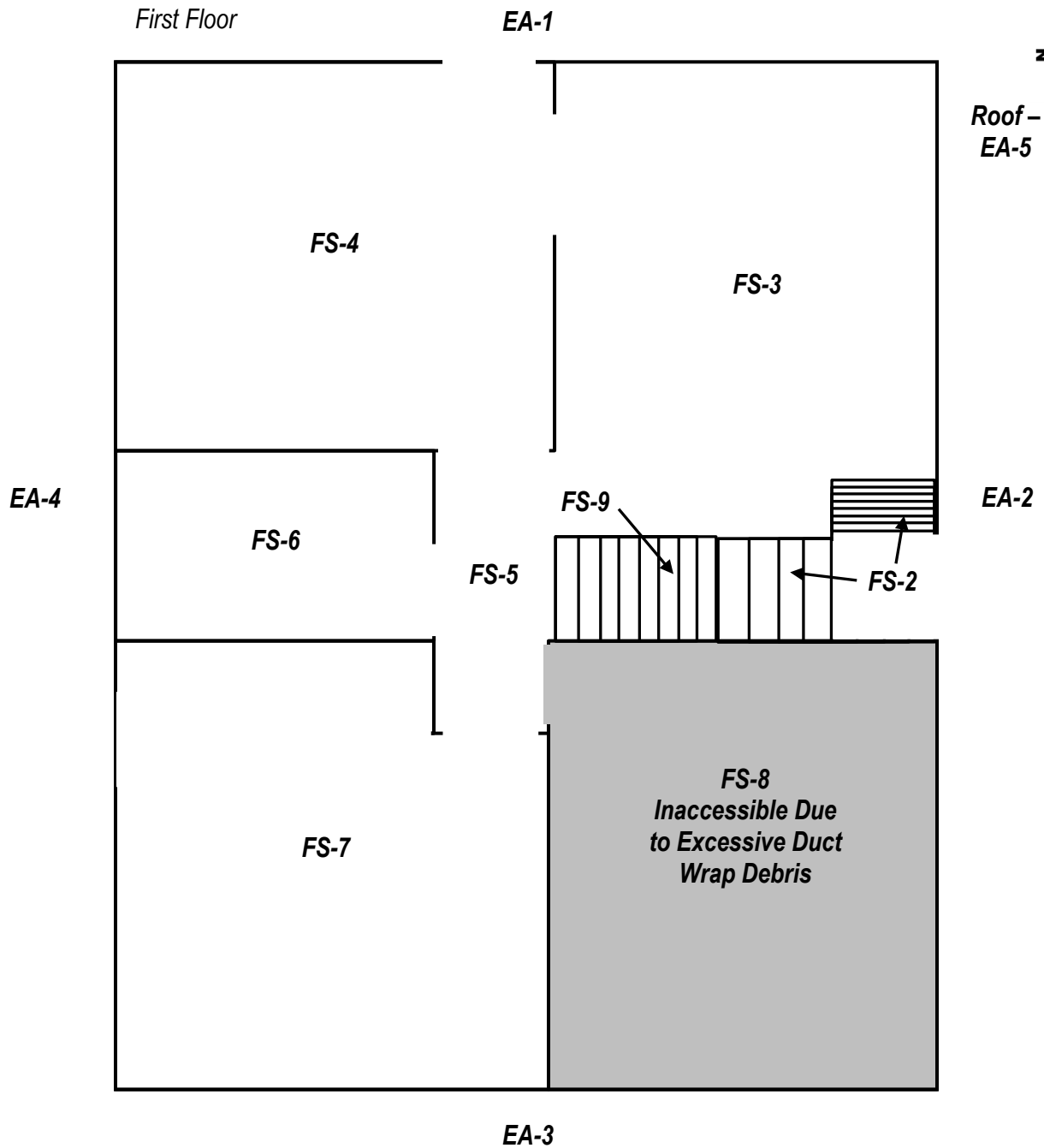
AS 24-1
Duct Wrap

Address: 9937 Evergreen

Date: 03/22/2022

Drawing not to scale

Evergreen



EA: Exterior Area
FS: Functional Space

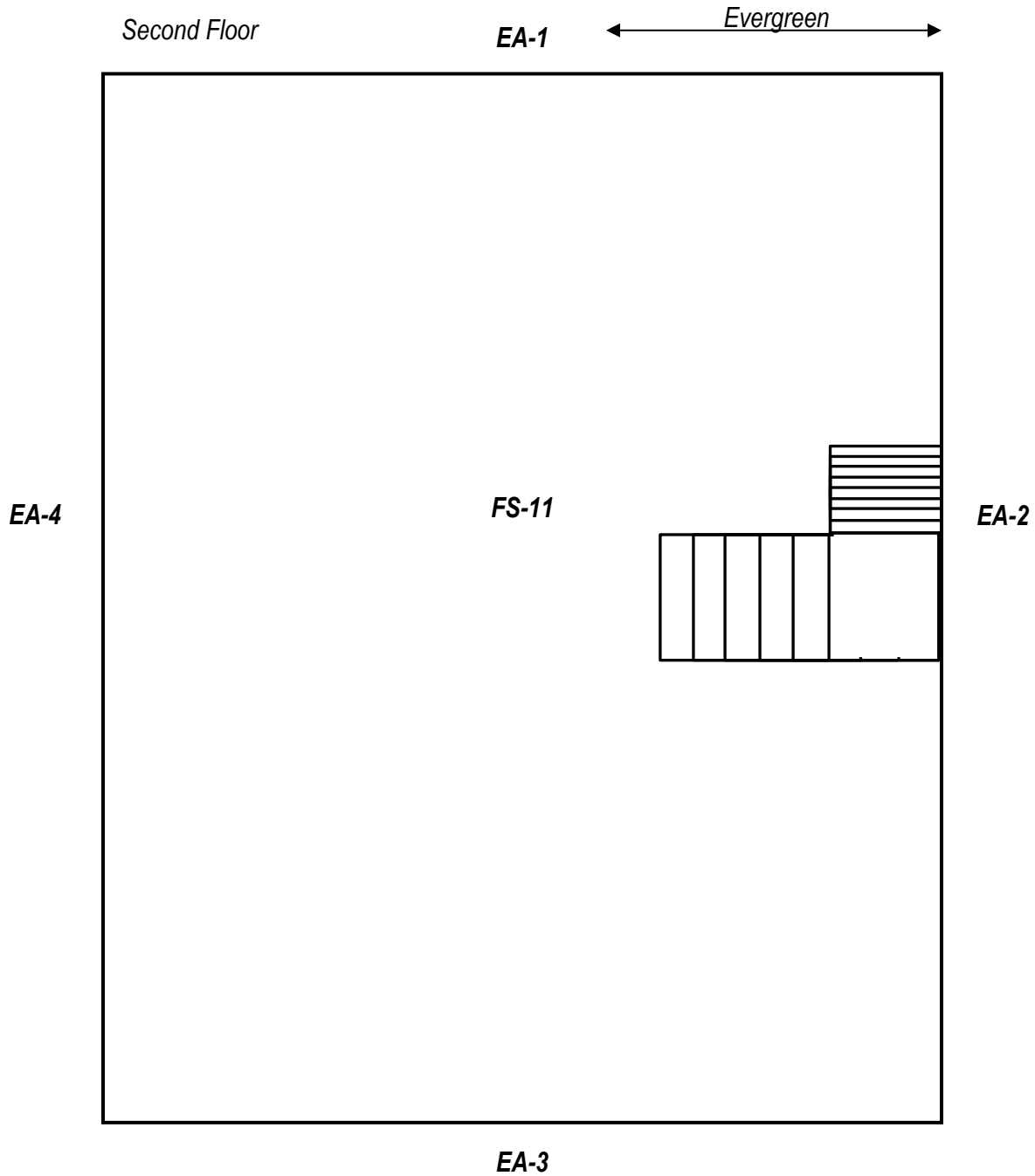


TECHNICAL SKILL.
CREATIVE SPIRIT.

2365 Haggerty Rd South, Canton, MI 48188 Tel: 734.397.3100 Fax: 734.397.3131 www.MannikSmithGroup.com

Address: 9937 Evergreen Date: 03/22/2022

Drawing not to scale

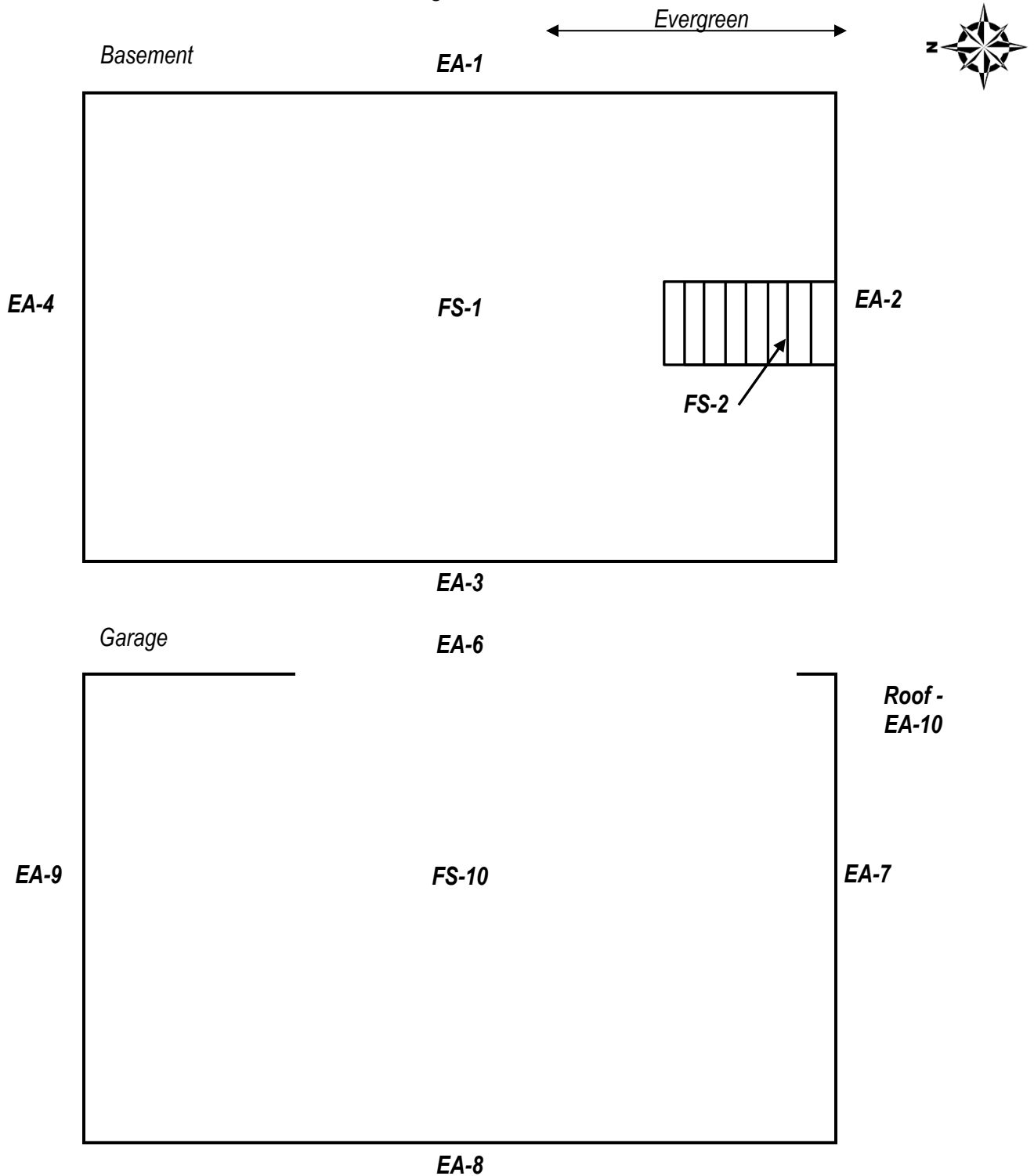


EA: Exterior Area
FS: Functional Space

Address: 9937 Evergreen

Date: 03/22/2022

Drawing not to scale



EA: Exterior Area
FS: Functional Space

TABLE 1
Asbestos Sampling Results

Client	City of Detroit								
Survey Location	9937 EVERGREEN								
Survey Date	March 25, 2022								
Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
EA-[2]	AS 1-1	1	Transite	Non-Friable	Fair	Miscellaneous	Yes	Chrysotile 10.00%	1900 SF
EA-[2]	AS 1-2	1	Transite	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
EA-[2]	AS 1-3	1	Transite	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
EA-[2]	AS 2-1	2	Black Siding Underlayment	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	1900 SF
EA-[2]	AS 2-2	2	Black Siding Underlayment	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[2]	AS 2-3	2	Black Siding Underlayment	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[2]	AS 3-1	3	Underlayment Strip	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	400 SF
EA-[2]	AS 3-2	3	Underlayment Strip	Non-Friable	Fair	Miscellaneous	No	Chrysotile 0.50% (PC)	
EA-[2]	AS 3-3	3	Underlayment Strip	Non-Friable	Fair	Miscellaneous	No	Chrysotile 0.50% (PC)	
EA-[2]	AS 4-1	4	Window/Door Sill	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	25 SF
EA-[2]	AS 4-2	4	Window/Door Sill	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[2]	AS 4-3	4	Window/Door Sill	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[1]	AS 5-1	5	Porch Concrete	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	15 SF
EA-[1]	AS 5-2	5	Porch Concrete	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[1]	AS 5-3	5	Porch Concrete	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[4]	AS 6-1	6	CMU Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	1200 SF
EA-[4]	AS 6-2	6	CMU Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[4]	AS 6-3	6	CMU Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	

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Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
EA-[4]	AS 7-1	7	Exterior Caulk	Non-Friable	Fair	Miscellaneous	Yes	Chrysotile 2.00% (PC)	300 LF
EA-[4]	AS 7-2	7	Exterior Caulk	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
EA-[4]	AS 7-3	7	Exterior Caulk	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
EA-[4]	AS 8-1	8	House Window Glaze	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	15 Each
EA-[4]	AS 8-2	8	House Window Glaze	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[4]	AS 8-3	8	House Window Glaze	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[5]	AS 9-1	9	House Roof Shingles	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	1900 SF
EA-[5]	AS 9-2	9	House Roof Shingles	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[5]	AS 9-3	9	House Roof Shingles	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[6]	AS 10-1	10	Driveway Expansion Joint	Non-Friable	Fair	Miscellaneous	Yes	Chrysotile 4.00%	30 LF
EA-[6]	AS 10-2	10	Driveway Expansion Joint	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
EA-[6]	AS 10-3	10	Driveway Expansion Joint	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
EA-[10]	AS 11-1	11	Garage Roof Shingles	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	900 SF
EA-[10]	AS 11-2	11	Garage Roof Shingles	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
EA-[10]	AS 11-3	11	Garage Roof Shingles	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	

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Survey Date	March 25, 2022								
Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
FS-[2]	AS 12-1	12	Plaster On Backerboard	Non-Friable	Fair	Surfacing	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected Layer 3: No Asbestos Detected	3500 SF
FS-[3]	AS 12-2	12	Plaster On Backerboard	Non-Friable	Fair	Surfacing	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected Layer 3: No Asbestos Detected	
FS-[4]	AS 12-3	12	Plaster On Backerboard	Non-Friable	Fair	Surfacing	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected Layer 3: No Asbestos Detected	
FS-[5]	AS 12-4	12	Plaster On Backerboard	Non-Friable	Fair	Surfacing	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected Layer 3: No Asbestos Detected	
FS-[6]	AS 12-5	12	Plaster On Backerboard	Non-Friable	Fair	Surfacing	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected Layer 3: No Asbestos Detected	
FS-[2]	AS 13-1	13	Grey 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	60 SF
FS-[2]	AS 13-2	13	Grey 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[2]	AS 13-3	13	Grey 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[3]	AS 14-1	14	Faux Wood 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	210 SF
FS-[3]	AS 14-2	14	Faux Wood 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[3]	AS 14-3	14	Faux Wood 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	

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Survey Date	March 25, 2022								
Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
FS-[3]	AS 15-1	15	Yellow 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	210 SF
FS-[3]	AS 15-2	15	Yellow 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[3]	AS 15-3	15	Yellow 9" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[3]	AS 16-1	16	White Glue Pods	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	100 SF
FS-[3]	AS 16-2	16	White Glue Pods	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[3]	AS 16-3	16	White Glue Pods	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[3]	AS 17-1	17	Kitchen Backsplash	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	100 SF
FS-[3]	AS 17-2	17	Kitchen Backsplash	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[3]	AS 17-3	17	Kitchen Backsplash	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[6]	AS 18-1	18	Bath Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	125 SF
FS-[6]	AS 18-2	18	Bath Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[6]	AS 18-3	18	Bath Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[6]	AS 19-1	19	Floor Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	50 SF
FS-[6]	AS 19-2	19	Floor Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[6]	AS 19-3	19	Floor Mortar	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	

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Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
FS-[9]	AS 20-1	20	Cream 12" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	400 SF
FS-[9]	AS 20-2	20	Cream 12" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[9]	AS 20-3	20	Cream 12" Floor Tile	Non-Friable	Fair	Miscellaneous	No	Layer 1: No Asbestos Detected Layer 2: No Asbestos Detected	
FS-[9]	AS 21-1	21	12" Ceiling Tile	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	50 SF
FS-[9]	AS 21-2	21	12" Ceiling Tile	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[9]	AS 21-3	21	12" Ceiling Tile	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[1]	AS 22-1	22	Stack Cement	Non-Friable	Fair	Miscellaneous	Yes	Chrysotile 2.00% (PC)	10 SF
FS-[1]	AS 22-2	22	Stack Cement	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
FS-[1]	AS 22-3	22	Stack Cement	Non-Friable	Fair	Miscellaneous	Yes	Not Analyzed	
FS-[1]	AS 23-1	23	Vibration Dampener	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	2 SF
FS-[1]	AS 23-2	23	Vibration Dampener	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[1]	AS 23-3	23	Vibration Dampener	Non-Friable	Fair	Miscellaneous	No	No Asbestos Detected	
FS-[1]	AS 24-1	24	Duct Wrap	Friable	Fair	TSI	Yes	Chrysotile 30.00%	35 SF
FS-[1]	AS 24-2	24	Duct Wrap	Friable	Fair	TSI	Yes	Not Analyzed	
FS-[1]	AS 24-3	24	Duct Wrap	Friable	Fair	TSI	Yes	Not Analyzed	

Table 2
Universal Waste, Hazardous Materials, and Other Regulated Materials Inventory
9937 Evergreen
Detroit, Wayne County, Michigan

Inspection Item	Constituent of Concern	Size/Quantity	Notes/Location
Gas Regulator	Mercury	1 Each	FS-1
CFL	Mercury	10 Each	FS-[2,3,6,7,9]
Microwave	CFC/HCFC	2 Each	FS-3
Television	Lead/Mercury	1 Each	FS-7

Report Compendium

PURPOSE AND SCOPE OF WORK

The purpose of the Hazardous and Regulated Materials Survey (HRMS) was to identify, quantify and document the location of regulated materials that may be encountered during demolition of the on-site structure. To accomplish this purpose, MSG performed the following scope of work:

1. Pre-demolition asbestos-containing material (ACM) survey.
2. Universal wastes, hazardous materials, and other regulated wastes survey.

METHODOLOGIES

The HRMS was conducted on March 25, 2022. Methodologies employed during the completion of each task of the HRMS are detailed below.

ACM Survey Procedures

The ACM survey is performed in general accordance with guidelines set forth in the Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. The National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations govern demolition and renovation activities in which asbestos is present. The NESHAP rule distinguishes between Regulated Asbestos-Containing Materials (RACM) that would readily release asbestos fibers when damaged or disturbed and those materials that are unlikely to result in significant fiber release during demolition activities. The purpose of this survey is to determine if ACM within the Site building are RACM and thus, subject to the NESHAP, and to comply with the Michigan Occupational Safety and Health Administration (MIOSHA) and guidelines set forth in the Occupational Safety and Health Administration (OSHA) Regulations Standards 29 CFR 1910.1101.

RACM, as defined by NESHAP, is classified into four parts, (1) friable asbestos material, (2) Category I non-friable ACM (packing, gaskets, floor tile and roofing products) that has become friable, (3) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (4) Category II non-friable ACM (all other ACM products) that has a high probability of becoming 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.

The suspect ACM identified during this survey was grouped into homogeneous materials (i.e. similar materials which are uniform in color and texture) and:

- Described and quantified it in linear feet (LF) or square feet (SF);
- Identified and classified as friable or non-friable;
- Assessed as being in good, fair or poor condition;
- Assigned an EPA classification type (surfacing material, thermal system insulation or miscellaneous);
- Classified as RACM or non-RACM; and
- Sampled, or identified as presumed ACM (PACM).

MSG performed services associated with this ACM survey in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. ACM surveys are conducted by a systematic visual inspection of all safely accessible areas of the Site building. Destructive sampling methods are used to inspect and collect samples from hidden areas (behind plaster walls, sub-layers of flooring/mastic, ceiling tiles, etc.) Suspect ACM samples are identified and collected by State of Michigan Accredited Asbestos Inspectors (Eric Haas, Accreditation Number A58290, assisted by Brock Johnson). Based on the quantity of each classification of suspect ACM, the MSG Inspector collects samples in accordance with EPA guidelines.

Universal Wastes and Hazardous Material Survey Procedures

MSG Environmental Professional pursuant to 40 CFR 312.10 identifies and takes inventory of universal wastes and hazardous materials by a visual reconnaissance of the Site. Materials are identified, described, and quantified to the extent possible; however, no equipment or containers are opened and/or sampled as part of this survey.

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A hazardous material, as defined in OSHA 29 CFR 1910.1200, is any item or chemical which is a "health hazard" or "physical hazard", including the following:

- Chemicals that are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, hepatotoxins, nephrotoxins, neurotoxins, agents that act on the hematopoietic system, and agents that damage the lungs, skin, eyes, or mucous membranes;
- Chemicals that are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water-reactive;
- Chemicals that, in the course of normal handling, use or storage, may produce or release dusts, gases, fumes, vapors, mists or smoke which have any of the above characteristics; and
- Any item or chemical which, when being transported or moved, is a risk to public safety or an environmental hazard, and is regulated as such by one or more of the following:
 - DOT - Department of Transportation; Hazardous Materials Regulations (49 CFR 100-180);
 - IMO - International Maritime Organization; International Maritime Dangerous Goods (IMDG) Code;
 - IATA - International Air Transport Association; Dangerous Goods Regulations;
 - ICAO - International Civil Aviation Organization; Technical Instructions; and
 - AF - Air Force "INTERSERVICE" Manual, Preparing Hazmat for Military Air Shipments (AFMAN 24-204).

Hazardous materials may also include:

- Any item or chemical listed in the United States Environmental Protection Agency (USEPA) List of Hazardous Substances and Reportable Quantities, dated September 1992.
- Noticeable as inventory under the reporting requirements of the Hazardous Chemical Reporting (40 CFR Part 302).
- An environmental release under the reporting requirements of the Toxic Chemical Release Reporting: Community Right To Know (40 CFR Part 372) or under Part 201, Environmental Remediation of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Part 201) and Part 213, Leaking Underground Storage Tanks (Part 213).

Universal wastes are waste that comes primarily from consumer products containing mercury, lead, cadmium or other substances that are hazardous to human health and the environment. These items cannot be discarded in household trash nor disposed of in landfills but have less stringent handling and disposal requirements than hazardous waste streams. In Michigan, universal wastes are regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) - Office of Waste Management and Radiological Protection under Part 111 of Act 451 and the federal Resource Conservation and Recovery Act (RCRA) of 1976 under 40 CFR Part 273. Universal waste is also regulated by the US Department of Transportation (US DOT) under 49 CFR Parts 171 through 180. Most of the universal waste requirements overseen by EGLE are addressed by R 299.9228 of Part 111 of 1994 P.A. 451, as amended and 40 CFR Part 273. These regulations are designed to encourage proper collection, recycling, treatment, or disposal of these wastes.

Examples of universal waste are mercury-containing equipment (e.g. thermostats, barometers, manometers, temperature and pressure gauges, and mercury switches), nickel-cadmium and spent lead-acid batteries, lamps (e.g. incandescent, fluorescent, high intensity discharge, neon, mercury vapor, and high pressure sodium and metal halide), pesticides, polychlorinated biphenyl (PCB) containing transformers and light ballasts, stored chemical and/or petroleum products, etc. In Michigan, Part 111 also includes pharmaceutical and consumer electronics as additional types of universal wastes.

Other Regulated Materials

This HRMS also included identifying and inventorying other regulated materials which may pose physical or chemical concerns during demolition of the Site building(s) including, whole motor vehicle scrap tires (which are illegal to

Report Compendium

dispose of in a landfill), chlorofluorocarbon (CFC) containing devices, tanks, vessels, equipment, and building materials that may contain or become contaminated with hazardous materials.

These would include chemicals with special characteristics which, in the opinion of the manufacturer, can cause harm to people, plants, or animals when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

Specifically, CFC containing devices are regulated Under Title VI of the Clean Air Act (CAA). The Stratospheric Protection Division of the EPA manages programs protecting the stratospheric ozone layer. Title 40, Part 82 of the Code of Federal Regulations contains the EPA regulations protecting the ozone layer. The survey of the premises identified and quantified any CFC containers and CFC containing equipment, which could include the following:

- Drinking fountains, air conditioners, refrigerators
- Air conditioners in control panels and other process equipment
- Water and air chillers
- Roof top and stand-alone air conditioners
- Cafeteria equipment: freezers, walk-in coolers/freezers
- CFC canisters and cylinders

In Michigan, underground storage tanks are regulated under the authority of Part 211, Underground Storage Tank Regulations, of Act 451 of 1994, as amended, and the Michigan Underground Storage Tank Rules (MUSTR). Therefore, this survey included whether any evidence of underground storage tanks and related piping and dispensers were present at the Site.

MSG also surveyed for the presence of equipment, other storage tanks, and materials that may contain or be contaminated by regulated chemicals. These include, but may not be comprehensive of:

- Above ground storage tanks
- Oil-containing equipment (hydraulic equipment, blowers, fans, motors, elevators, compressors, etc.)
- Fire brick
- Contaminated building materials (concrete, block walls, wood, plaster, etc.) with staining, odor or other signs of a hazardous chemical release

The scrap tire management program regulates transportation, storage and disposal of scrap tires under Part 169 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. A scrap tire means a tire that is no longer being used for its original intended purpose including, but not limited to, a used tire, a reusable tire casing, or portions of tires. Scrap tire does not include a vehicle support stand.

Based on the construction age of the building(s), lead-based paint (LBP) should be assumed to be present. LBP is considered as a hazardous substance and therefore, its condition, handling, and disposal are regulated by federal, state, and local agencies. Contractors and their employers that will be disturbing the building during demolition shall follow all applicable requirements, including but not limited to, the OSHA Lead in Construction Standard.

SURVEY RESULTS

The following subsections include a discussion of the HRMS results. Photographs of the building are located in the Photo Log. The results of this report are valid as of the report date, subject to the limitations, which are attached.

ACM Survey Results

MSG identified twenty-four (24) suspect homogenous materials during the survey. Seventy-four (74) bulk samples were collected from these suspect homogeneous materials and were submitted to Mannik & Smith Group Analytical Laboratories (MSGAL) for laboratory analysis of Bulk Materials by Polarized Light Microscopy using USEPA Method 600/R-93/116. MSGAL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to analyze bulk samples for asbestos content. Of the aforementioned suspect homogenous materials identified during this

Report Compendium

survey, laboratory analysis found five (5) samples containing greater than 1% asbestos (AS 1-1, AS 7-1, AS 10-1, AS 22-1, AS 24-1). The EPA defines ACM as materials containing greater than 1% asbestos.

A point-count quantification procedure (PCQM) allows for lower detection limits than calibrated visual estimation (CVES), which is the quantification method widely used in asbestos analysis via Polarized Light Microscopy (PLM). If the asbestos content is found to contain less than 1% asbestos as determined by a method other than point counting by PLM, it can only be treated as non-ACM if verified to contain less than 1% by the PCQM. If not point-counted, the sample must be assumed to be greater than 1% and thus considered and treated as ACM. As part of this survey, one (1) sample (AS 7-1) was analyzed using point count quantification. The point count sample confirms the PLM results as ACM (greater than 1% asbestos).

Suspect ACM sample locations are depicted on the attached figure. The locations for ACM are listed in the executive summary. See *Table 1, Asbestos Sampling Results* for a listing of homogeneous materials identified by MSG during this survey. Functional areas on Table 1 list the locations where the sample(s) were taken. Table 1 quantities reflect the total amount of suspect ACM in all locations that it is observed. A copy of the analytical reports including chains of custody is attached at the end of this report.

Universal Wastes, Hazardous Materials, and Other Regulated Materials Survey Results

Universal wastes, hazardous materials, and/or other regulated materials wastes were identified within the Site building. Waste type, locations and quantities identified are provided in *Table 2, Universal Waste, Hazardous Materials, and Other Regulated Materials Inventory*.

CONCLUSIONS

Asbestos Containing Materials

Of the twenty-four (24) suspect homogenous materials collected as part of this survey, five (5) contained greater than 1% asbestos (AS 1-1, AS 7-1, AS 10-1, AS 22-1, AS 24-1) with these materials classified as RACM.

Prior to demolition, a notification of intent to demolish shall be made to the EGLE-Air Quality Division (EGLE-AQD) and Licensing and Regulatory Affairs (LARA), Asbestos Program. Notification, according to the procedure described by the NESHAP, Title 40 of the Code of Federal Regulations, Part 61, Subpart M, Notification, for renovation and demolition projects should be followed.

Category I and Category II Non-Friable ACM may often be left in place during demolition activities if the ACM is not subjected to sanding, grinding, cutting, or abrading or has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during the course of demolition. However, this assertion should only be made by the demolition contractor when the demolition methods have been accepted by the regulatory authority to not release asbestos fibers. Debris should be presumed as ACM and disposed of accordingly. All materials containing ACM must be disposed of in a licensed landfill.

If additional suspect ACMs are discovered during demolition activities in areas that were determined during this survey to be structurally unsound and unsafe, inaccessible, concealed and/or in buried areas, shall be surveyed, tested, and abated if warranted.

Universal Wastes, Hazardous Materials, and Other Regulated Materials

The universal waste, hazardous materials, and other regulated materials (see Table 2) must be properly characterized (as necessary) and properly removed from the Site building for recycling and/or disposed of in accordance with Parts 111, 115, or 147 of Michigan Public Act 451 of 1994, as amended. If additional universal wastes, hazardous materials, and other regulated materials are discovered during demolition activities in areas that were determined during this survey to be structurally unsound and unsafe, inaccessible, concealed and/or in buried areas, these materials shall be characterized (as necessary) and properly removed in accordance with the above-mentioned regulations.



REGULATED MATERIALS SURVEY LIMITATIONS

The Mannik & Smith Group, Inc. (MSG) performed its services associated with this Asbestos Containing Building Material Survey (ACBMS) in general accordance with guidelines set forth in the Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763, Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1101, and in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. This RMS and related documentation are site-specific, which means they pertain to the conditions of the site surveyed.

Unless otherwise noted, MSG's ACBMS is limited to accessible areas. Areas determined to be not structurally sound, safely reached, limited by excessive accumulated obstructions, require specialized equipment to access, in operable windows, etc., are not included in this survey. There may be areas where regulated materials, such as suspected asbestos-containing materials (SACM) and lead containing paint cannot be viewed and/or tested. MSG shall not be responsible for identifying all SACM, lead containing paint, or other hazardous materials located in inaccessible locations, including but not limited to, above a plaster ceiling, behind a wall, embedded in concrete, buried, confined spaces, unsafe areas, or otherwise not readily identifiable.

Destructive sampling will only be conducted when permission has been granted by the owner. Destructive survey locations are limited to areas where hidden SACM, lead containing paint, or other hazardous materials is reasonably thought to be present and sampling can be conducted in a safe manner. If regulated materials are found during the course of demolition and/or renovation activities that are not listed in this report, the material should be assumed as asbestos-containing, lead containing, or hazardous until it can be sampled and analyzed at an accredited laboratory and safe work practices should always be used if those areas are to be disturbed.

MSG has prepared a logical assessment program to reduce the client's risk of discovering unknown regulated materials and/or hazardous substances. The presence of subsurface regulated materials and/or hazardous substances is based solely on surface observations and/or information provided by others. Descriptions of subsurface conditions provided in this report are not warranted to be complete or accurate. This risk may be reduced by more extensive exploration on the site, but even with additional exploration, it is not possible to completely eliminate the risk of discovering regulated materials and/or hazardous conditions. It cannot and should not be assumed that samples collected and conditions observed at the time of the ACBMS are representative of an area that has not been sampled and/or tested.

In preparing this report, MSG may have relied on information obtained from or provided by others. MSG makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant after MSG has completed the scope of work for this project. Furthermore, because the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other environmental professionals.

The report is intended to offer support to a building owner, construction manager, general contractor, abatement contractor, architect, and/or other parties authorized by the owner in generally locating asbestos-containing materials (ACM), universal and hazardous wastes, and/or other regulated materials. This report does not have the required components to serve as an Asbestos Project Design document, Asbestos Abatement Work Plan, and/or a Health and Safety Plan. Therefore, this report should not be utilized as a project specification document. The results, findings, conclusions, and recommendations expressed in

this report are based only on conditions that were noted during this survey. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Quantities have been conservatively estimated and sampling locations have been described representatively; however, current site conditions should be field-verified by contractors bidding on and/or prior to abatement work.

The Mannik & Smith Group Analytical Laboratories

L2359

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Received 03/28/22
Analyzed 04/21/22
Reported 04/21/22

Project 9937 EVERGREEN
Order # L2359
Project # DETR0059

BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 1-1 Layer 1 Transite Type Chrysotile 10.00% White, fibrous, homogeneous 90% non-asbestos	Lab ID L2359-1	Location EA-[2]
Client ID AS 1-2 Layer 1 Transite Type Not Analyzed - White, fibrous, homogeneous	Lab ID L2359-2	Location EA-[2]
Client ID AS 1-3 Layer 1 Transite Type Not Analyzed - White, fibrous, homogeneous	Lab ID L2359-3	Location EA-[2]
Client ID AS 2-1 Layer 1 Black Siding Underlayment Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-4	Location EA-[2]
Client ID AS 2-2 Layer 1 Black Siding Underlayment Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-5	Location EA-[2]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

Accreditations
NIST-NVLAP
No. 600212-0

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 2-3 Layer 1 Black Siding Underlayment Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-6	Location EA-[2]
Client ID AS 3-1 Layer 1 Underlayment Strip Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-7	Location EA-[2]
Client ID AS 3-2 Layer 1 Underlayment Strip Type Chrysotile 0.50% Black, fibrous, homogeneous 99.5% non-asbestos Point count performed.	Lab ID L2359-8	Location EA-[2]
Client ID AS 3-3 Layer 1 Underlayment Strip Type Chrysotile 0.50% Black, fibrous, homogeneous 99.5% non-asbestos Point count performed.	Lab ID L2359-9	Location EA-[2]
Client ID AS 4-1 Layer 1 Window/Door Sill Type Non Detect 0.00% Tan, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-10	Location EA-[2]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 4-2 Layer 1 Window/Door Sill Type Non Detect 0.00% Tan, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-11	Location EA-[2]
Client ID AS 4-3 Layer 1 Window/Door Sill Type Non Detect 0.00% Tan, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-12	Location EA-[2]
Client ID AS 5-1 Layer 1 Porch Concrete Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-13	Location EA-[1]
Client ID AS 5-2 Layer 1 Porch Concrete Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-14	Location EA-[1]
Client ID AS 5-3 Layer 1 Porch Concrete Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-15	Location EA-[1]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 6-1 Layer 1 CMU Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-16	Location EA-[4]
Client ID AS 6-2 Layer 1 CMU Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-17	Location EA-[4]
Client ID AS 6-3 Layer 1 CMU Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-18	Location EA-[4]
Client ID AS 7-1 Layer 1 Exterior Caulk Type Chrysotile 2.00% White, fibrous, homogeneous 98% non-asbestos Point count performed.	Lab ID L2359-19	Location EA-[4]
Client ID AS 7-2 Layer 1 Exterior Caulk Type Not Analyzed - White, fibrous, homogeneous	Lab ID L2359-20	Location EA-[4]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 7-3 Layer 1 Exterior Caulk Type Not Analyzed - White, fibrous, homogeneous	Lab ID L2359-21	Location EA-[4]
Client ID AS 8-1 Layer 1 House Window Glaze Type Non Detect 0.00% Cream, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-22	Location EA-[4]
Client ID AS 8-2 Layer 1 House Window Glaze Type Non Detect 0.00% Cream, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-23	Location EA-[4]
Client ID AS 8-3 Layer 1 House Window Glaze Type Non Detect 0.00% Cream, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-24	Location EA-[4]
Client ID AS 9-1 Layer 1 House Roof Shingles Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-25	Location EA-[5]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 9-2 Layer 1 House Roof Shingles Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-26	Location EA-[5]
Client ID AS 9-3 Layer 1 House Roof Shingles Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-27	Location EA-[5]
Client ID AS 10-1 Layer 1 Driveway Expansion Joint Type Chrysotile 4.00% Black, fibrous, homogeneous 96% non-asbestos	Lab ID L2359-28	Location EA-[6]
Client ID AS 10-2 Layer 1 Driveway Expansion Joint Type Not Analyzed - Black, fibrous, homogeneous	Lab ID L2359-29	Location EA-[6]
Client ID AS 10-3 Layer 1 Driveway Expansion Joint Type Not Analyzed - Black, fibrous, homogeneous	Lab ID L2359-30	Location EA-[6]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 11-1 Layer 1 Garage Roof Shingles Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-31	Location EA-[10]
Client ID AS 11-2 Layer 1 Garage Roof Shingles Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-32	Location EA-[10]
Client ID AS 11-3 Layer 1 Garage Roof Shingles Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-33	Location EA-[10]
Client ID AS 12-1 Layer 1 Plaster Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-34 Layer 2 Skim Coat Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Location FS-[2] Layer 3 Backerboard Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos
Client ID AS 12-2 Layer 1 Plaster Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-35 Layer 2 Skim Coat Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Location FS-[3] Layer 3 Backerboard Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 12-3 Layer 1 Plaster Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-36 Layer 2 Skim Coat Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Layer 3 Backerboard Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Location FS-[4]
Client ID AS 12-4 Layer 1 Plaster Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-37 Layer 2 Skim Coat Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Layer 3 Backerboard Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Location FS-[5]
Client ID AS 12-5 Layer 1 Plaster Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-38 Layer 2 Skim Coat Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Layer 3 Backerboard Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Location FS-[6]
Client ID AS 13-1 Layer 1 Grey 9" Floor Tile Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-39 Layer 2 Mastic Type Non Detect 0.00% Brown, fibrous, homogeneous 100% non-asbestos		Location FS-[2]
Client ID AS 13-2 Layer 1 Grey 9" Floor Tile Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-40 Layer 2 Mastic Type Non Detect 0.00% Brown, fibrous, homogeneous 100% non-asbestos		Location FS-[2]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 13-3 Layer 1 Grey 9" Floor Tile Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-41 Layer 2 Mastic Type Non Detect 0.00% Brown, fibrous, homogeneous 100% non-asbestos	Location FS-[2]
Client ID AS 14-1 Layer 1 Faux Wood 9" Floor Tile Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-42 Layer 2 Mastic Type Non Detect 0.00% Clear, fibrous, homogeneous 100% non-asbestos	Location FS-[3]
Client ID AS 14-2 Layer 1 Faux Wood 9" Floor Tile Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-43 Layer 2 Mastic Type Non Detect 0.00% Clear, fibrous, homogeneous 100% non-asbestos	Location FS-[3]
Client ID AS 14-3 Layer 1 Faux Wood 9" Floor Tile Type Non Detect 0.00% Gray, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-44 Layer 2 Mastic Type Non Detect 0.00% Clear, fibrous, homogeneous 100% non-asbestos	Location FS-[3]
Client ID AS 15-1 Layer 1 Yellow 9" Floor Tile Type Non Detect 0.00% Yellow, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-45 Layer 2 Mastic Type Non Detect 0.00% Yellow, fibrous, homogeneous 100% non-asbestos	Location FS-[3]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 15-2 Layer 1 Yellow 9" Floor Tile Type Non Detect 0.00% Yellow, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-46 Layer 2 Mastic Type Non Detect 0.00% Yellow, fibrous, homogeneous 100% non-asbestos	Location FS-[3]
Client ID AS 15-3 Layer 1 Yellow 9" Floor Tile Type Non Detect 0.00% Yellow, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-47 Layer 2 Mastic Type Non Detect 0.00% Yellow, fibrous, homogeneous 100% non-asbestos	Location FS-[3]
Client ID AS 16-1 Layer 1 White Glue Pods Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-48	Location FS-[3]
Client ID AS 16-2 Layer 1 White Glue Pods Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-49	Location FS-[3]
Client ID AS 16-3 Layer 1 White Glue Pods Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-50	Location FS-[3]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 17-1 Layer 1 Kitchen Backsplash Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-51	Location FS-[3]
Client ID AS 17-2 Layer 1 Kitchen Backsplash Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-52	Location FS-[3]
Client ID AS 17-3 Layer 1 Kitchen Backsplash Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-53	Location FS-[3]
Client ID AS 18-1 Layer 1 Bath Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-54	Location FS-[6]
Client ID AS 18-2 Layer 1 Bath Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-55	Location FS-[6]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

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BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 18-3 Layer 1 Bath Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-56	Location FS-[6]
Client ID AS 19-1 Layer 1 Floor Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-57	Location FS-[6]
Client ID AS 19-2 Layer 1 Floor Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-58	Location FS-[6]
Client ID AS 19-3 Layer 1 Floor Mortar Type Non Detect 0.00% Gray, nonfibrous, homogeneous 100% non-asbestos	Lab ID L2359-59	Location FS-[6]
Client ID AS 20-1 Layer 1 Cream 12" Floor Tile Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-60 Layer 2 Mastic Type Non Detect 0.00% Clear, fibrous, homogeneous 100% non-asbestos	Location FS-[9]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

Accreditations
NIST-NVLAP
No. 600212-0

The results herein relate only to the samples as received and tested by The Mannik & Smith Analytical Laboratories. This report can not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any other agency of the Federal Government. Please see the Sample Protocol before submitting samples for analysis in order to ensure laboratory staff safety and analysis accuracy.

The Mannik & Smith Group Analytical Laboratories

L2359

2365 S Haggerty Rd, Canton, MI 48188

Client The Mannik & Smith Group, Inc.
2365 S. Haggerty Rd., Suite 100
Canton, MI, 48188

Received 03/28/22
Analyzed 04/21/22
Reported 04/21/22

Project 9937 EVERGREEN
Order # L2359
Project # DETR0059

BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 20-2 Layer 1 Cream 12" Floor Tile Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-61 Layer 2 Mastic Type Non Detect 0.00% Clear, fibrous, homogeneous 100% non-asbestos	Location FS-[9]
Client ID AS 20-3 Layer 1 Cream 12" Floor Tile Type Non Detect 0.00% White, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-62 Layer 2 Mastic Type Non Detect 0.00% Clear, fibrous, homogeneous 100% non-asbestos	Location FS-[9]
Client ID AS 21-1 Layer 1 12" Ceiling Tile Type Non Detect 0.00% Brown, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-63	Location FS-[9]
Client ID AS 21-2 Layer 1 12" Ceiling Tile Type Non Detect 0.00% Brown, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-64	Location FS-[9]
Client ID AS 21-3 Layer 1 12" Ceiling Tile Type Non Detect 0.00% Brown, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-65	Location FS-[9]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

Accreditations
NIST-NVLAP
No. 600212-0

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Client The Mannik & Smith Group, Inc.
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Canton, MI, 48188

Received 03/28/22
Analyzed 04/21/22
Reported 04/21/22

Project 9937 EVERGREEN
Order # L2359
Project # DETR0059

BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 22-1 Layer 1 Stack Cement Type Chrysotile 2.00% Gray, fibrous, homogeneous 98% non-asbestos Point count performed.	Lab ID L2359-66	Location FS-[1]
Client ID AS 22-2 Layer 1 Stack Cement Type Not Analyzed - Gray, fibrous, homogeneous	Lab ID L2359-67	Location FS-[1]
Client ID AS 22-3 Layer 1 Stack Cement Type Not Analyzed - Gray, fibrous, homogeneous	Lab ID L2359-68	Location FS-[1]
Client ID AS 23-1 Layer 1 Vibration Dampener Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-69	Location FS-[1]
Client ID AS 23-2 Layer 1 Vibration Dampener Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-70	Location FS-[1]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
 Analyst: Lillian C. Hill Quality Manager
 Reviewer: Christopher A. Claes Laboratory Director

Accreditations
 NIST-NVLAP
 No. 600212-0

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The Mannik & Smith Group Analytical Laboratories

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2365 S Haggerty Rd, Canton, MI 48188

Client The Mannik & Smith Group, Inc.
2365 S. Haggerty Rd., Suite 100
Canton, MI, 48188

Received 03/28/22
Analyzed 04/21/22
Reported 04/21/22

Project 9937 EVERGREEN
Order # L2359
Project # DETR0059

BULK SAMPLE ANALYSIS SUMMARY

Client ID AS 23-3 Layer 1 Vibration Dampener Type Non Detect 0.00% Black, fibrous, homogeneous 100% non-asbestos	Lab ID L2359-71	Location FS-[1]
Client ID AS 24-1 Layer 1 Duct Wrap Type Chrysotile 30.00% White, fibrous, homogeneous 70% non-asbestos	Lab ID L2359-72	Location FS-[1]
Client ID AS 24-2 Layer 1 Duct Wrap Type Not Analyzed - White, fibrous, homogeneous	Lab ID L2359-73	Location FS-[1]
Client ID AS 24-3 Layer 1 Duct Wrap Type Not Analyzed - White, fibrous, homogeneous	Lab ID L2359-74	Location FS-[1]

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy
Analyst: Lillian C. Hill Quality Manager
Reviewer: Christopher A. Claes Laboratory Director

Accreditations
NIST-NVLAP
No. 600212-0

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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600212-0

Mannik & Smith Group Analytical Laboratories
Canton, MI

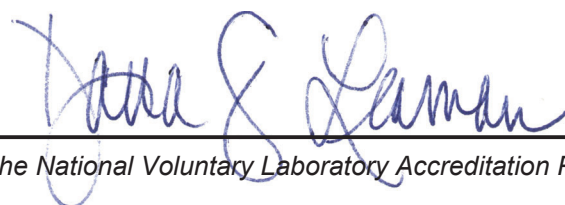
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2021-07-01 through 2022-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Mannik & Smith Group Analytical Laboratories

2365 Haggerty Rd South

Suite 100

Canton, MI 48188

Mr. Christopher A. Claes

Phone: 734-397-3100 Fax: 734-397-3131

Email: cclaes@manniksmithgroup.com

<http://www.manniksmithgroup.com/>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 600212-0

Bulk Asbestos Analysis

Code

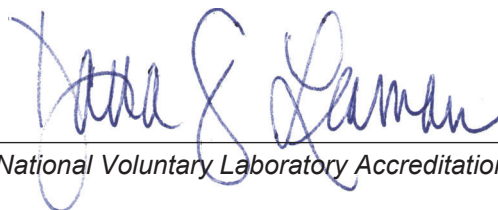
Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials



For the National Voluntary Laboratory Accreditation Program

The Mannik & Smith Group Analytical Laboratories

Chain of Custody

Order Number:

L2359

Client	The Mannik & Smith Group			City, State	Canton, MI	Zip Code	48188	Sampled By:	Eric Haas
Address	2365 S. Haggerty Rd., Suite 100			Contact	Ryan Montri	Phone	(734) 397-3100		
Project	9937 EVERGREEN	Project #	Detr0059	Email	rmontri@manniksmithgroup.com	Fax	(734) 397-3131	Date Sampled:	3/25/2022
Turn Around	☐ 4 Hour	☐ 24 Hour	☐ 48 Hour	☒ 72 Hour	☐ 1 Week	Report to	☒ Email	☒ Fax	

Bulk Samples Only. Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy. Point counts automatically performed >0-3%.

☐ Test Until Positive ☐ Point Count All Samples

Lab ID	Customer ID	Material Type	Material Location	Notes
L -1	AS 1-1	Transite	EA-12	
L -2	AS 1-2	Transite	EA-12	
L -3	AS 1-3	Transite	EA-12	
L -4	AS 2-1	Black Siding Underlayment	EA-12	
L -5	AS 2-2	Black Siding Underlayment	EA-12	
L -6	AS 2-3	Black Siding Underlayment	EA-12	
L -7	AS 3-1	Underlayment Strip	EA-12	
L -8	AS 3-2	Underlayment Strip	EA-12	
L -9	AS 3-3	Underlayment Strip	EA-12	
L -10	AS 4-1	Window/Door Sill	EA-12	
L -11	AS 4-2	Window/Door Sill	EA-12	
L -12	AS 4-3	Window/Door Sill	EA-12	
L -13	AS 5-1	Porch Concrete	EA-12	
L -14	AS 5-2	Porch Concrete	EA-12	
L -15	AS 5-3	Porch Concrete	EA-12	

Relinquished BM5
Date / Time 3/25/22 15:20

Received LCHNSGAI
Date / Time 3/25/22

Relinquished
Date / Time

Received
Date / Time

Comments

The Mannik & Smith Group

Analytical Laboratories

Chain of Custody

Order Number:

L

Lab ID	Customer ID	Material Type	Material Location	Notes
L -16	AS 6-1	CMU Mortar	EA-14	
L -17	AS 6-2	CMU Mortar	EA-14	
L -18	AS 6-3	CMU Mortar	EA-14	
L -19	AS 7-1	Exterior Caulk	EA-14	
L -20	AS 7-2	Exterior Caulk	EA-14	
L -21	AS 7-3	Exterior Caulk	EA-14	
L -22	AS 8-1	House Window Glaze	EA-14	
L -23	AS 8-2	House Window Glaze	EA-14	
L -24	AS 8-3	House Window Glaze	EA-14	
L -25	AS 9-1	House Roof Shingles	EA-15	
L -26	AS 9-2	House Roof Shingles	EA-15	
L -27	AS 9-3	House Roof Shingles	EA-15	
L -28	AS 10-1	Driveway Expansion Joint	EA-16	
L -29	AS 10-2	Driveway Expansion Joint	EA-16	
L -30	AS 10-3	Driveway Expansion Joint	EA-16	
L -31	AS 11-1	Garage Roof Shingles	EA-110	
L -32	AS 11-2	Garage Roof Shingles	EA-110	
L -33	AS 11-3	Garage Roof Shingles	EA-110	
L -34	AS 12-1	Plaster On Backboard	FS-12	
L -35	AS 12-2	Plaster On Backboard	FS-13	
L -36	AS 12-3	Plaster On Backboard	FS-14	
L -37	AS 12-4	Plaster On Backboard	FS-15	
L -38	AS 12-5	Plaster On Backboard	FS-16	
L -39	AS 13-1	Grey 9" Floor Tile	FS-12	
L -40	AS 13-2	Grey 9" Floor Tile	FS-12	

The Mannik & Smith Group

Analytical Laboratories

Chain of Custody

Order Number:

L

Lab ID	Customer ID	Material Type	Material Location	Notes
L -41	AS 13-3	Grey 9" Floor Tile	FS-12	
L -42	AS 14-1	Faux Wood 9" Floor Tile	FS-13	
L -43	AS 14-2	Faux Wood 9" Floor Tile	FS-13	
L -44	AS 14-3	Faux Wood 9" Floor Tile	FS-13	
L -45	AS 15-1	Yellow 9" Floor Tile	FS-13	
L -46	AS 15-2	Yellow 9" Floor Tile	FS-13	
L -47	AS 15-3	Yellow 9" Floor Tile	FS-13	
L -48	AS 16-1	White Glue Pods	FS-13	
L -49	AS 16-2	White Glue Pods	FS-13	
L -50	AS 16-3	White Glue Pods	FS-13	
L -51	AS 17-1	Kitchen Backsplash	FS-13	
L -52	AS 17-2	Kitchen Backsplash	FS-13	
L -53	AS 17-3	Kitchen Backsplash	FS-13	
L -54	AS 18-1	Bath Mortar	FS-16	
L -55	AS 18-2	Bath Mortar	FS-16	
L -56	AS 18-3	Bath Mortar	FS-16	
L -57	AS 19-1	Floor Mortar	FS-16	
L -58	AS 19-2	Floor Mortar	FS-16	
L -59	AS 19-3	Floor Mortar	FS-16	
L -60	AS 20-1	Cream 12" Floor Tile	FS-19	
L -61	AS 20-2	Cream 12" Floor Tile	FS-19	
L -62	AS 20-3	Cream 12" Floor Tile	FS-19	
L -63	AS 21-1	12" Ceiling Tile	FS-19	
L -64	AS 21-2	12" Ceiling Tile	FS-19	
L -65	AS 21-3	12" Ceiling Tile	FS-19	

The Mannik & Smith Group Analytical Laboratories

Chain of Custody

Order Number:

L

Lab ID	Customer ID	Material Type	Material Location	Notes
L -66	AS 22-1	Stack Cement	FS-[1]	
L -67	AS 22-2	Stack Cement	FS-[1]	
L -68	AS 22-3	Stack Cement	FS-[1]	
L -69	AS 23-1	Vibration Damperner	FS-[1]	
L -70	AS 23-2	Vibration Damperner	FS-[1]	
L -71	AS 23-3	Vibration Damperner	FS-[1]	
	AS 24-1	Duct Wrap	FS-[1]	
	AS 24-2	Duct Wrap	FS-[1]	
	AS 24-3	Duct Wrap	FS-[1]	



Pre-Demolition Engineering Survey Report



9937 EVERGREEN
Detroit, MI 48228

Prepared for
City of Detroit Demolition Department
1301 Third Street, 6th Floor
Detroit, Michigan 48226

Prepared by
Mannik Smith Group
2365 South Haggerty Rd
Canton, MI 48188

Report Date
3/14/2022



Survey Details and Site Information	
Date(s) of Engineering Survey:	March 14, 2022
Engineering Survey Inspector Name:	Kevin Lund
Engineering Survey Inspector #:	6201046184
Engineering Survey Inspector Email:	KLund@manniksmithgroup.com
Engineering Survey Inspector Phone #:	734-397-3100
Engineering Survey Inspector Signature:	Kevin Lund Digitally signed by Kevin Lund Date: 2022.04.25 16:00:55 -04'00'
Reviewing PE/Architect Name:	Steve Bouws
Reviewing PE/Architect License State/#:	6201037563
Reviewing PE/Architect Email:	sbouws@manniksmithgroup.com
Reviewing PE/Architect Phone #:	734-289-2200
Reviewing PE/Architect Signature:	
Property Address:	9937 EVERGREEN
# and Types of Structure(s):	Total: 2 <i>Principal Residential Structure</i> <i>Detached Garage</i>
Foundation Type	Principal Residential Structure: Basement Detached Garage: Concrete/Slab
Year Built:	Principal Residential Structure: 1942 Detached Garage: 1942
# of Floors:	Principal Residential Structure: 2 Detached Garage: 1
Total Square Footage:	Total: 1533 SF <i>Principal Residential Structure: 1148</i> <i>Detached Garage 385</i>

Engineering Survey Findings – Exterior Areas			
Designation	Inaccessible	Reason	Description/Notes
EA-1	--	--	EA-1: Front Side of House
EA-2	--	--	EA-2: Left Side of House
EA-3	--	--	EA-3: Back Side of House
EA-4	--	--	EA-4: Right Side of House
EA-5	C	S	EA-5: House Roof
EA-6	--	--	EA-6: Front Side of Garage
EA-7	--	--	EA-7: Left Side of Garage
EA-8	--	--	EA-8: Back Side of Garage
EA-9	--	--	EA-9: Right Side of Garage
EA-10	C	S	EA-10: Garage Roof

Key:

- **Inaccessible:** "P" = Partially Inaccessible; "C" = Completely Inaccessible
- **Reason:** "F" = Fire Damage, "W" = Water Damage, "S" = Structural Damage, "T" = Termite Damage, "O" = Other Damage, "D" - Excessive Debris, "V" - Excessive Vegetation

Engineering Survey Findings – Functional Spaces			
Designation	Inaccessible	Reason	Description/Notes
FS-1	--	--	Basement
FS-2	--	--	Stairs to Basement/Floor 1
FS-3	--	--	Kitchen
FS-4	--	--	Living Room
FS-5	--	--	Hallway
FS-6	--	--	Bathroom
FS-7	--	--	Bedroom
FS-8	C	D	Bedroom <i>Ducts and Duct Wrap Debris</i>
FS-9	--	--	Bedroom
FS-10	--	--	Inside of Garage

Key:

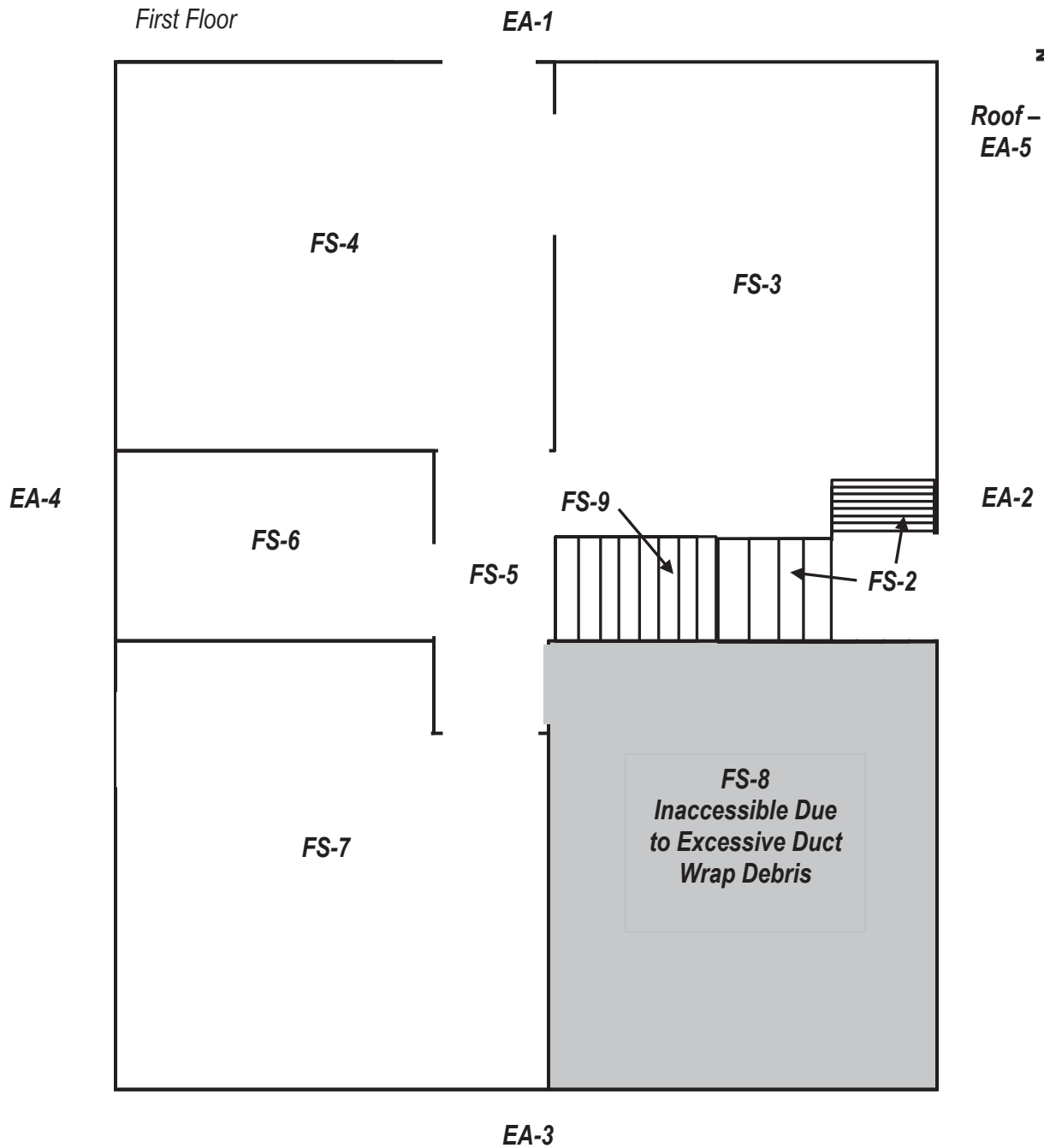
- **Inaccessible:** "P" = Partially Inaccessible; "C" = Completely Inaccessible
- **Reason:** "F" = Fire Damage, "W" = Water Damage, "S" = Structural Damage, "T" = Termite Damage, "O" = Other Damage, "D" - Excessive Debris, "V" - Excessive Vegetation

Address: 9937 Evergreen

Date: 03/22/2022

Drawing not to scale

Evergreen



EA: Exterior Area
FS: Functional Space

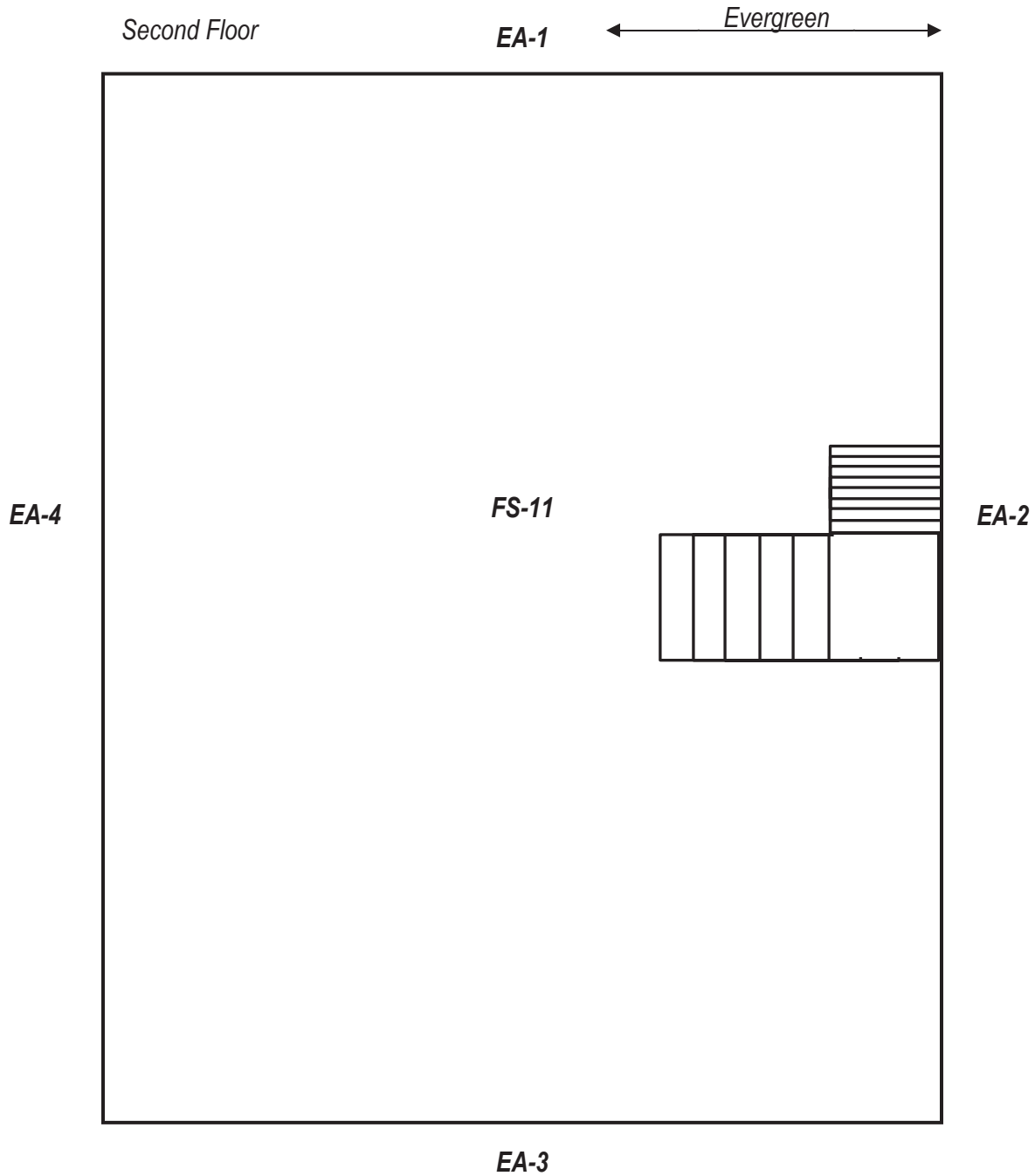


TECHNICAL SKILL.
CREATIVE SPIRIT.

2365 Haggerty Rd South, Canton, MI 48188 Tel: 734.397.3100 Fax: 734.397.3131 www.MannikSmithGroup.com

Address: 9937 Evergreen Date: 03/22/2022

Drawing not to scale

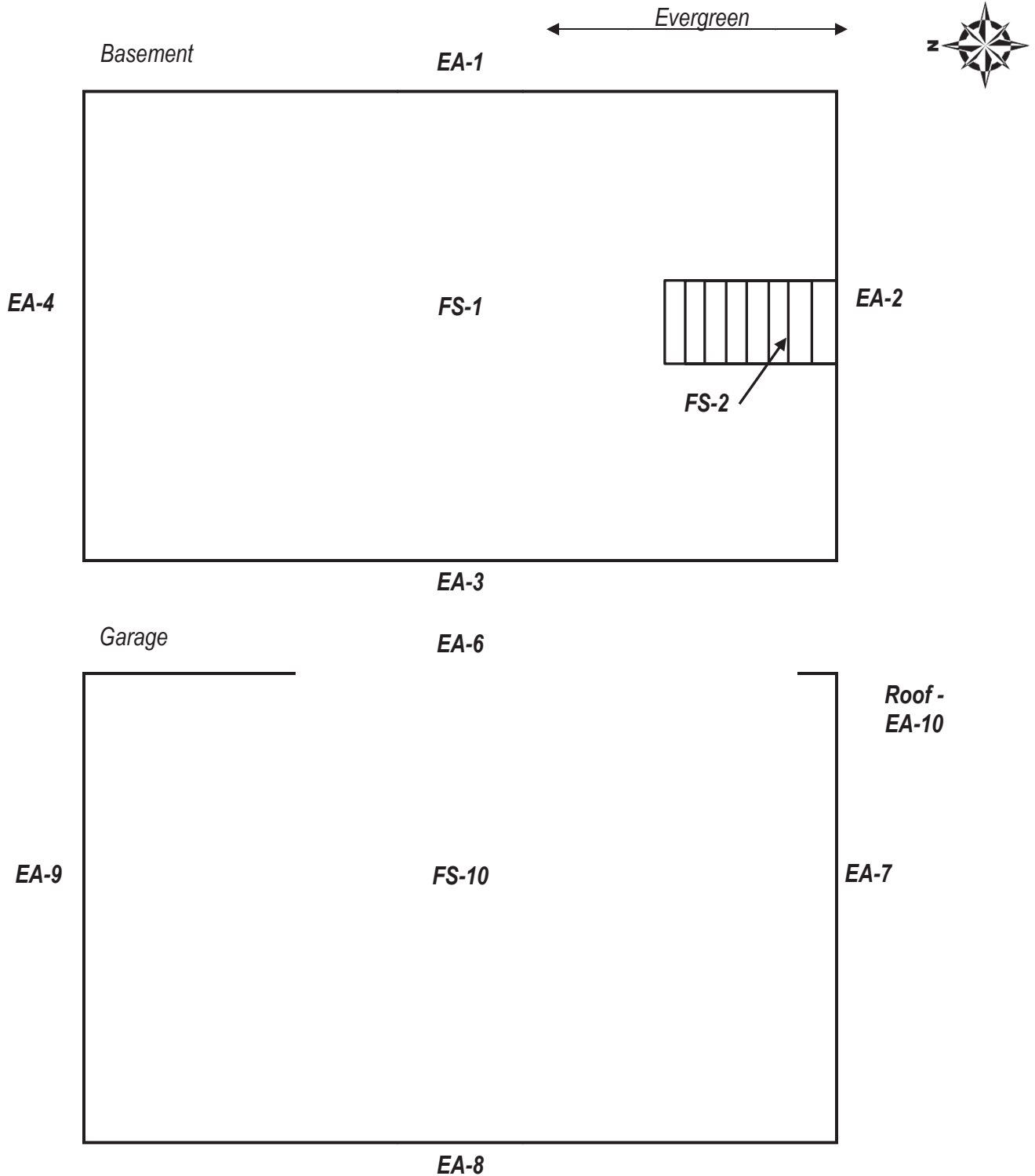


EA: Exterior Area
FS: Functional Space

Address: 9937 Evergreen

Date: 03/22/2022

Drawing not to scale



EA: Exterior Area
FS: Functional Space

Exterior Areas - Photographs



EA-1 Image-1

EA_Image-20220314-122708.jpg

Front Side of House



EA-2 Image-1

EA_Image-20220314-122722.jpg

Left Side of House

Exterior Areas - Photographs



EA-3 Image-1

EA_Image-20220314-122737.jpg

Back Side of House



EA-4 Image-1

EA_Image-20220314-122743.jpg

Right Side of House

Exterior Areas - Photographs



EA-5 Image-1

EA_Image-20220314-122751.jpg

House Roof



EA-6 Image-1

EA_Image-20220314-122800.jpg

Front Side of Garage

Exterior Areas - Photographs



EA-7 Image-1

EA_Image-20220314-122807.jpg

Left Side of Garage



EA-8 Image-1

EA_Image-20220314-122840.jpg

Back Side of Garage

Exterior Areas - Photographs



EA-9 Image-1

EA_Image-20220314-122847.jpg

Right Side of Garage



EA-10 Image-1

EA_Image-20220314-122854.jpg

Garage Roof

Functional Spaces - Photographs



FS-1 Image-1

FS_Image-20220314-122917.jpg

Basement



FS-2 Image-1

FS_Image-20220314-122927.jpg

Stairs to Basement/Floor 1

Functional Spaces - Photographs



FS-3 Image-1

FS_Image-20220314-122935.jpg

Kitchen



FS-4 Image-1

FS_Image-20220314-122951.jpg

Living Room

Functional Spaces - Photographs



FS-5 Image-1

FS_Image-20220314-123005.jpg

Hallway



FS-6 Image-1

FS_Image-20220314-123016.jpg

Bathroom

Functional Spaces - Photographs



FS-7 Image-1

FS_Image-20220314-123024.jpg

Bedroom



FS-8 Image-1

FS_Image-20220314-123101.jpg

Bedroom

Functional Spaces - Photographs



FS-9 Image-1

FS_Image-20220314-123139.jpg

Bedroom



FS-10 Image-1

FS_Image-20220314-123150.jpg

Inside of Garage