



P.O. Box 13216
Lansing, MI 48901
Phone: 888.449.4566
Fax: 888.448.8739
www.redcedarconsulting.net

October 11, 2022

Ms. Roxanne Case
Ingham County Land Bank
3024 Turner St.
Lansing, MI 48906

RE: *Asbestos Containing Material and Hazardous Materials Inspection*
112 Woodworth St, Leslie, MI 49251
Parcel ID: 33-17-14-28-126-016

Dear Ms. Case:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 112 Woodworth St., Leslie, Michigan (Subject Property). This inspection was completed at the request of the Ingham County Land Bank to comply with the United States Environmental Protection Agency (USEPA) requirements for demolition and renovation set forth under the National Emissions Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61). This inspection was also completed to comply with the Occupational Safety and Health Administration (OSHA) Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

SUBJECT PROPERTY

The Subject Property is comprised of a commercial parcel which contains an approximate 30,455 square foot school building (the Building) constructed in 1928. The Building was constructed on a concrete basement with two aboveground floors. The exterior walls of the Building were finished with brick while the roof was sealed with a variety of asphalt roof combinations. Note: the building is in extremely poor condition structurally with interior ceilings and floor systems collapsing. An exterior survey only was completed on the building and a partial interior survey of the South addition, where conditions allowed.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet and Jeff Cain of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspectors (Accreditation Numbers A30955 and A14057, respectively) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on August 18, 19, 22, and 23, 2022 for suspected asbestos containing building materials.

This inspection, and subsequent sample collection was completed in accordance with the USEPA Asbestos Hazard Emergency Response Act (AHERA) (40 CFR Part 763) assessment and sampling protocol.

During the completion of the inspection, each area of the Subject Property was visually inspected for asbestos containing building materials (ACBM). Following the completion of the visual inspection, Red Cedar staff identified each suspect area of friable and non-friable ACBM and sorted them into one of three homogenous categories for sampling purposes. AHERA defines friable as a material that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. A homogenous area is defined by OSHA as an area of surfacing, thermal system insulation (TSI) or miscellaneous material that is uniform in color and texture. Surfacing materials are most commonly found in sprayed-on, troweled-on or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members. TSI refers to materials applied to pipes, fittings, boilers, ductwork, or other components to prevent heat loss or gain, or condensation. Any material that does not fall under the surfacing or TSI category, such as floor tile, drywall, and acoustical ceiling tile are placed into the miscellaneous materials category.

Following the completion of the visual inspection, Red Cedar staff identified the following materials as suspect ACBM:

- Brick/Mortar
- Concrete Foundation
- Concrete Slab
- Window/Door Caulk
- Vinyl Floor Tile
- Drywall
- Plaster
- 2x4 Ceiling Tile
- Pipe Fittings
- Pipe Insulation
- Asphalt Roofing
- Roof Caulk
- Roof Tar
- Roof Flashing
- Fiberboard

Red Cedar staff collected ninety-two samples of suspect ACBM separated into forty-six distinct homogenous groups for laboratory analysis. Samples were collected and submitted to APEX Research Inc. Laboratories (APEX) (Accreditation Number 102118-0) for laboratory analysis. Analysis was completed utilizing polarized light microscopy (PLM) which is the Environmental Protection Agency (EPA) approved method for analysis of bulk materials for asbestos. PLM analysis completed pursuant to method (EPA 600/M4-82-020) identifies asbestos fiber bundles by the visual properties displayed when the sample is treated with various dispersion staining liquids. The laboratory report completed following the sample analysis indicates if asbestos is present, and at what percentage along with a description and percentage of other fibrous and non-fibrous materials and sample color. Chain-of-custody documentation was followed from sample collection through shipping and receiving of the samples at the designated laboratory. The documentation assures that samples will meet the quality assurance/quality control

measures defined by AHERA. The laboratory analytical report prepared by APEX for the ninety-two samples is included as Attachment A.

Hazardous Materials Inspection

On August 18, 2022, the Subject Property was also inspected for the presence of hazardous materials which include but are not limited to polychlorinated biphenyls (PCBs) and potential mercury containing equipment and any items or containers that may contain or be classified as a hazardous or regulated material. Each material, if identified, was documented along with the approximate location. Any materials identified as hazardous are included in Table 1.

INSPECTION RESULTS AND RECOMMENDATIONS

During the completion of the asbestos inspection, ninety-two samples of suspect ACM were collected and are documented in Table 2 along with the Red Cedar sample number, description, friability, material type, ACM classification, sample location, material quantity and laboratory analytical results. A Site Diagram was prepared which provides the general building layout and sample locations and is included as Attachment B. Copies of the Asbestos Inspectors certifications are included as Attachment C.

ACM, as defined by the USEPA NESHAP is “any material containing more than 1 percent asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763 Section 1, Polarized Light Microscopy”.

Friable ACM is defined by NESHAP as any material containing more than 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friable ACM is a concern due the ease of unintentionally disturbing the ACM which may result in “visible emissions” which is known as a Fiber Release Episode.

Non-friable asbestos-containing material is defined as “material containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM’s are separated into Category I and Category II ACM. Category I ACM is any asbestos containing packing’s, gaskets, resilient floor coverings (vinyl floor tile and linoleum are examples of these) and asphalt roofing products. Category II ACM is stated by NESHAP as any material excluding Category I non-friable ACM such as drywall, plaster or fiberboard insulation.

Presumed Asbestos Containing Material

Presumed Asbestos Containing Materials (PACM) are suspect surfacing, TSI and miscellaneous materials found in buildings constructed prior to 1980 which are classified as and due to the age of the structure, are assumed to be ACM and do not require sample collection and analysis. OSHA dictates that PACM may be “rebutted” following a complete inspection pursuant to AHERA protocol.

No PACM was identified during the completion of this inspection. All suspect materials identified were sampled and analyzed for ACM.

Table 3 lists the location, material description, friability, condition, material type (surfacing, thermal or miscellaneous) and approximate quantity of all PACM documented at the Subject Property.

Table 4 provides a summary all ACM documented at the Subject Property which includes the material location, description, and approximate quantity.

Friable ACM's

Mud fittings and Air-O-Cell type Pipe Wrap identified in the Building in conjunction with the hot water heating system were sampled and found to contain up to 50% Chrysotile asbestos. The visual assessment to quantify the extent of this material identified Friable ACM at the following locations within the basement, first and second floors:

- S Add. Basement, pipe Insulation/Fitting Grey S Area (20 fittings)
- S Add. Interior 1st Fl, pipe Fitt. Gray Mud NE Wall (10 fittings)
- S Add. Basement, Pipe Insulation Straight Run N Area, (200 lin. ft.)
- S Add. Interior 1st Fl, Pipe Insulation E Wall, (100 lin. ft.)

Category I ACM

Two types of resilient floor covering (Brown and White 9x9 Vinyl Floor Tile) located within the S Addition were found to contain up to 10% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 5,000 sq. ft. of this material within the Building.

Asphalt roof samples collected during the completion of the inspection were found to contain up to 15% Chrysotile asbestos. The assessment to quantify the extent of this material identified 12,000 sq. ft. of asphalt roofing materials on the Building.

Category II ACM

No Category II non-friable ACM was identified during the completion of this inspection.

RECOMMENDATIONS

Asbestos Containing Materials

Please note this was a limited inspection of the Building. Asphalt roof materials, vinyl floor tile and pipe fittings/insulation were found to contain asbestos.

Due to the structural concerns with the Building, full demolition and disposal of the building roof and interior materials as asbestos is the planned abatement procedure. All brick, mortar and concrete samples collected did not contain ACM. Due to the large number of samples obtained (each addition of the Building) it is Red Cedars opinion that these materials are asbestos free and if properly separated during the demolition process can be disposed of as non ACM material.

Please note: The location of samples obtained during this inspection were in a random fashion and areas that were not identified during this inspection may be damaged or have become damaged since the inspection was completed. If Category I or Category II friable materials are discovered prior to or during the demolition/renovation process, these materials must be abated prior to commencement of any demolition/renovation activities at the Subject Property.

Hazardous Materials

Hazardous Materials identified at the Subject Property and documented in Table 1 which require proper removal and disposal consist of the following items:

- 4' Fluorescent Light (Fixture and Ballast Only) (>50)
- 4' Fluorescent Bulb (>50)
- Exit Signs (10)

Please note the list of Hazardous Materials listed above is not inclusive of all hazardous materials in the Building. Many areas could not be accessed and this was only a limited assessment.

REGULATORY REQUIREMENTS

A Notification of intent to Renovate/Demolish form must be filed with the Michigan Department of Environmental Quality- Air Quality Division at least 10 working days prior to any renovation or demolition activities at a site.

The Notification of Intent to Renovate/Demolish form must also be completed and submitted to the MIOSHA-Asbestos Program whenever demolition, encapsulation and/or renovation activities at a site involving greater than ten lineal feet and/or fifteen square feet of ACM will be completed.

Regulated asbestos containing materials per NESHAP (40 CFR Part 61) which falls into any of the following categories are ACM's that must be removed prior to any renovation/demolition activities at the Subject Property.

- Friable asbestos material.
- Category I non-friable ACM that has become friable.
- Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
- Category II non-friable ACM 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 renovation or demolition operations.

Asbestos abatement should only be performed by a certified asbestos abatement contractor licensed to complete abatement work. The contractor must also follow the standards and requirements set forth per the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) and the USEPA NESHAP (40 CFR Part 61).

Additional information regarding the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) and the USEPA NESHAP (40 CFR Part 61) can be obtained by contacting the associated agency below.

NESHAP Asbestos Program
Department of Environmental Quality
Phone: 517-284-6777

MIOSHA-CSHD-Asbestos Program
State of Michigan
Phone: 517-284-7680
Email: asbestos@michigan.gov

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-17-14-28-126-016

DISCLAIMER

Red Cedar Consulting performed destructive testing methods in an attempt to access and inspect all areas of the Building. Unfortunately, due to the age of construction along with multiple additions/renovations that may have been completed on the Building, additional inspections may be required if suspect ACM material not documented within this report is encountered during renovation/demolition activities.

This report was prepared at the request and for exclusive use by the Ingham County Land Bank and may not be reproduced or sold without written permission from Red Cedar Consulting.

We appreciate the opportunity to provide the requested services. Please contact us at (888) 449-4566 with any questions or concerns.

Sincerely,
Red Cedar Consulting



Aaron Paquet
Michigan/EPA Certified Asbestos Building Inspector
(A30955)

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 112 Woodworth St., Leslie, MI 49251



Report To:

Mr. Aaron Paquet
Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-101043
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 01
Cust. #: WS-HM-01A
Material: Brick
Location: SE Corner
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 01a
Cust. #: WS-HM-01A
Material: Mortar
Location: SE Corner
Appearance: grey, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 02
Cust. #: WS-HM-01B
Material: Brick
Location: NW Corner
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 112 Woodworth St., Leslie, MI 49251



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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 02a Cust. #: WS-HM-01B Material: Mortar Location: NW Corner Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 03 Cust. #: WS-HM-02A Material: Concrete Slab Location: SE Corner Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 04 Cust. #: WS-HM-02B Material: Concrete Slab Location: SW Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 05
Cust. #: WS-HM-03A
Material: Window/Door Caulk
Location: S. Wall
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 06
Cust. #: WS-HM-03B
Material: Window/Door Caulk
Location: W. Wall
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 07
Cust. #: WS-HM-04A
Material: Brick
Location: S. Wall
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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ARI Report # 22-101043
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 07a Cust. #: WS-HM-04A Material: Mortar Location: S. Wall Appearance: beige,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 08 Cust. #: WS-HM-04B Material: Brick Location: N. Wall Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 08a Cust. #: WS-HM-04B Material: Mortar Location: N. Wall Appearance: beige,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 09 Cust. #: WS-HM-05A Material: Concrete Slab Location: S. Wall Slab Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 10 Cust. #: WS-HM-05B Material: Concrete Slab Location: W. Wall Slab Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 11 Cust. #: WS-HM-06A Material: Window/Door/Blk Caulk Location: S. Wall Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 10% Other - 90%

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Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 12 Cust. #: WS-HM-06B Material: Window/Door Caulk Location: N. Wall Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 10% Other - 90%
Lab ID #: 101043 - 13 Cust. #: WS-HM-07A Material: Window Cement Board Location: S. Wall Appearance: red, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 13a Cust. #: WS-HM-07A Material: Grey Cement Location: S. Wall Appearance: grey, fibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Fiberglass - 10% Other - 90%

For Layered Samples, each component will be analyzed and reported separately.

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 13b Cust. #: WS-HM-07A Material: Red Cement Location: S. Wall Appearance: red,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 14 Cust. #: WS-HM-07B Material: Window Cement Board Location: N. Wall Appearance: red,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 14a Cust. #: WS-HM-07B Material: Grey Cement Location: N. Wall Appearance: grey,fibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Fiberglass - 10% Other - 90%

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 14b Cust. #: WS-HM-07B Material: Red Cement Location: N. Wall Appearance: red,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 15 Cust. #: WS-HM-08A Material: Brick Location: W. Wall Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 15a Cust. #: WS-HM-08A Material: Mortar Location: W. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 16 Cust. #: WS-HM-08B Material: Brick Location: W. Wall Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 16a Cust. #: WS-HM-08B Material: Mortar Location: W. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 17 Cust. #: WS-HM-09A Material: Concrete Slab Location: W. Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 112 Woodworth St., Leslie, MI 49251



Report To:

Mr. Aaron Paquet
Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-101043
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 18 Cust. #: WS-HM-09B Material: Concrete Slab Location: W. Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 19 Cust. #: WS-HM-10A Material: Window Caulk Location: W. Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 20 Cust. #: WS-HM-10B Material: Window Caulk Location: W. Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 21
Cust. #: WS-HM-11A
Material: Brick
Location: NW Corner
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 21a
Cust. #: WS-HM-11A
Material: Mortar
Location: NW Corner
Appearance: grey, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 22
Cust. #: WS-HM-11B
Material: Brick
Location: E. Entry
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 22a
Cust. #: WS-HM-11B
Material: Mortar
Location: E. Entry
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 23
Cust. #: WS-HM-12A
Material: Concrete Slab
Location: NW Corner
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 24
Cust. #: WS-HM-12B
Material: Concrete Slab
Location: E. Entry
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 25
Cust. #: WS-HM-13A
Material: Window/Door Caulk
Location: E. Entry
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 26
Cust. #: WS-HM-13B
Material: Window/Door Caulk
Location: W. Wall
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 27
Cust. #: WS-HM-14A
Material: Concrete
Location: Front Approach
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 28 Cust. #: WS-HM-14B Material: Concrete Location: Front Approach Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 29 Cust. #: WS-HM-15A Material: N. Door Caulk Blk Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 30 Cust. #: WS-HM-15B Material: N. Door Caulk Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 31
Cust. #: WS-HM-16A
Material: Gym/Floor Tile/White
Location: NW Area
Appearance: white,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 31a
Cust. #: WS-HM-16A
Material: Glue
Location: NW Area
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 32
Cust. #: WS-HM-16B
Material: Gym/Floor Tile/White
Location: SW Area
Appearance: white,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 32a Cust. #: WS-HM-16B Material: Glue Location: SW Area Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 33 Cust. #: WS-HM-17A Material: Gym/Floor Tile/Red Location: SE Area Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 33a Cust. #: WS-HM-17A Material: Glue Location: SE Area Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101043 - 34
Cust. #: WS-HM-17B
Material: Gym/Floor Tile/Red
Location: NW Area
Appearance: red,nonfibrous,homogenous
Layer: 1 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 34a
Cust. #: WS-HM-17B
Material: Glue
Location: NW Area
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101043 - 34b
Cust. #: WS-HM-17B
Material: Glue
Location: NW Area
Appearance: yellow,nonfibrous,homogenous
Layer: 3 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 08/30/22
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 35 Cust. #: WS-HM-18A Material: Fiberboard Location: N. Wall Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 101043 - 36 Cust. #: WS-HM-18B Material: Fiberboard Location: N. Wall Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 101043 - 37 Cust. #: WS-HM-19A Material: Drywall Over Window Location: N. Wall Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 37a Cust. #: WS-HM-19A Material: Texture Location: N. Wall Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 38 Cust. #: WS-HM-19B Material: Drywall Over Window Location: S. Wall Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 101043 - 38a Cust. #: WS-HM-19B Material: Texture Location: S. Wall Appearance: white, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 39 Cust. #: WS-HM-20A Material: Interior Brick Location: S. Wall Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 39a Cust. #: WS-HM-20A Material: Mortar Location: S. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 40 Cust. #: WS-HM-20B Material: Interior Brick Location: N. Wall Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 40a Cust. #: WS-HM-20B Material: Mortar Location: N. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 41 Cust. #: WS-HM-21A Material: 1st Floor Plaster Finish Coat Location: E. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 41a Cust. #: WS-HM-21A Material: Plaster Base Coat Location: E. Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 41b Cust. #: WS-HM-21A Material: Brown Mortar Location: E. Wall Appearance: brown, fibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 101043 - 42 Cust. #: WS-HM-21B Material: 1st Floor Plaster Finish Coat Location: W. Wall Appearance: white, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101043 - 42a Cust. #: WS-HM-21B Material: Plaster Base Coat Location: W. Wall Appearance: grey, nonfibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101043 - 42b Cust. #: WS-HM-21B Material: Brown Mortar Location: W. Wall Appearance: brown,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 101043 - 43 Cust. #: WS-HM-22A Material: DCT 2'x4' White Location: NE Corner Appearance: yellow,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 80% Other - 20%
Lab ID #: 101043 - 44 Cust. #: WS-HM-22B Material: DCT 2'x4' White Location: S. Wall Area Appearance: yellow,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Fiberglass - 85% Other - 15%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 112 Woodworth St., Leslie, MI. 49251



Report To:

Mr. Aaron Paquet
Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 01 Cust. #: WS-HM-23A Material: Drywall Above Windows Location: East Wall Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 101042 - 02 Cust. #: WS-HM-23B Material: Drywall Above Windows Location: South Wall Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 101042 - 03 Cust. #: WS-HM-24A Material: Pipe Fitting Grey Mud Location: East Wall Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 70%	Fiberglass - 10% Other - 20%

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Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 04
Cust. #: WS-HM-24B
Material: Pipe Fitting Grey Mud
Location: East Wall
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 101042 - 05
Cust. #: WS-HM-25A
Material: Pipe Insulation
Location: East Wall
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 60%

Other - 40%

Lab ID #: 101042 - 06
Cust. #: WS-HM-25B
Material: Pipe Insulation
Location: East Wall
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 07 Cust. #: WS-HM-26A Material: Vinyl Floor Tile, Brown Location: North Area Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 5%	Other - 95%
Lab ID #: 101042 - 07a Cust. #: WS-HM-26A Material: Mastic Location: North Area Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 08 Cust. #: WS-HM-26B Material: Vinyl Floor Tile, Brown Location: SW Area Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 08a
Cust. #: WS-HM-26B
Material: Mastic
Location: SW Area
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101042 - 09
Cust. #: WS-HM-27A
Material: Plaster Ceiling Base Coat
Location: 2nd Floor-North Area
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 101042 - 09a
Cust. #: WS-HM-27A
Material: Glue Pod
Location: 2nd Floor-North Area
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 09b Cust. #: WS-HM-27A Material: Joint Compound Location: 2nd Floor-North Area Appearance: white,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 10 Cust. #: WS-HM-27B Material: Plaster Ceiling Base Coat Location: 2nd Floor-South Area Appearance: grey,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 10a Cust. #: WS-HM-27B Material: Glue Pod Location: 2nd Floor-South Area Appearance: brown,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 10b Cust. #: WS-HM-27B Material: Joint Compound Location: 2nd Floor-South Area Appearance: white,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 11 Cust. #: WS-HM-28A Material: Plaster Finish Coat Location: East Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 11a Cust. #: WS-HM-28A Material: Plaster Base Coat Location: East Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 12 Cust. #: WS-HM-28B Material: Plaster Finish Coat Location: South Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 12a Cust. #: WS-HM-28B Material: Plaster Base Coat Location: South Wall Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 12b Cust. #: WS-HM-28B Material: Drywall Above Windows Location: South Wall Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%

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Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 13 Cust. #: WS-HM-29A Material: Vinyl Floor Tile, White Location: East Area Appearance: grey, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 101042 - 13a Cust. #: WS-HM-29A Material: Mastic Location: East Area Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 14 Cust. #: WS-HM-29B Material: Vinyl Floor Tile, White Location: West Area Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 14a Cust. #: WS-HM-29B Material: Mastic Location: West Area Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 15 Cust. #: WS-HM-30A Material: Gym Roof/Flat Fiberboard Location: SW Area Appearance: white,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 25% Other - 75%
Lab ID #: 101042 - 15a Cust. #: WS-HM-30A Material: Roofing #2 Location: SW Area Appearance: black,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Fiberglass - 10% Other - 50%

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 16 Cust. #: WS-HM-30B Material: Gym Roof/Flat Fiberboard Location: NW Area Appearance: white, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Synthetic - 25% Other - 75%
Lab ID #: 101042 - 16a Cust. #: WS-HM-30B Material: Roofing #2 Location: NW Area Appearance: black, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Fiberglass - 10% Other - 50%
Lab ID #: 101042 - 17 Cust. #: WS-HM-31A Material: Gym Roof/Caulk/Flashing Location: South Area Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 30% Other - 70%

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Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 18 Cust. #: WS-HM-31B Material: Gym Roof/Caulk/Flashing Location: East Area Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Synthetic - 30% Other - 70%
Lab ID #: 101042 - 19 Cust. #: WS-HM-32A Material: SA/Roof Caulk, Grey Location: East Area Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 20 Cust. #: WS-HM-32B Material: SA/Roof Caulk, Grey Location: South Area Appearance: black, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 21
Cust. #: WS-HM-33A
Material: SA/Roof Tar, Black
Location: East Area
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 101042 - 22
Cust. #: WS-HM-33B
Material: SA/Roof Tar, Black
Location: South Area
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 101042 - 23
Cust. #: WS-HM-34A
Material: SA/Roof Caulk, Black
Location: West Area
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 15%

Other - 85%

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Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 24
Cust. #: WS-HM-34B
Material: SA/Roof Caulk, Black
Location: South Area
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 101042 - 25
Cust. #: WS-HM-35A
Material: Original Roof/Fan Flashing
Location: Center Area
Appearance: black, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 101042 - 26
Cust. #: WS-HM-35B
Material: Original Roof/Fan Flashing
Location: Center Area
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Report To:

Mr. Aaron Paquet
Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 27 Cust. #: WS-HM-36A Material: Original Roof (Roof Shingles) Location: West Para Pit Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Other - 85%
Lab ID #: 101042 - 28 Cust. #: WS-HM-36B Material: Original Roof (Roof Shingles) Location: South Para Pit Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 15% Other - 85%
Lab ID #: 101042 - 29 Cust. #: WS-HM-37A Material: Original Roof Tar Location: West Side Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189
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Page 14 of 23

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 112 Woodworth St., Leslie, MI. 49251


Report To:

Mr. Aaron Paquet
Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 30 Cust. #: WS-HM-37B Material: Original Roof Tar Location: South Side Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 101042 - 31 Cust. #: WS-HM-38A Material: Original Roof Fisher Bond Location: West Side Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 101042 - 32 Cust. #: WS-HM-38B Material: Original Roof Fisher Bond Location: South Side Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Other - 30%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 112 Woodworth St., Leslie, MI. 49251



Report To:

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P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 33
Cust. #: WS-HM-39A
Material: East Addition Roof Flashing
Location: East Side
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Other - 65%

Lab ID #: 101042 - 34
Cust. #: WS-HM-39B
Material: East Addition Roof Flashing
Location: North End
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Other - 65%

Lab ID #: 101042 - 35
Cust. #: WS-HM-40A
Material: E. Add. Roof-Roofing Under Rubber
Location: East Side
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Other - 65%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 112 Woodworth St., Leslie, MI. 49251



Report To:

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Red Cedar Consulting
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Lansing, MI 48901

ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 36
Cust. #: WS-HM-40B
Material: E. Add. Roof-Roofing Under Rubber
Location: North Side
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Other - 65%

Lab ID #: 101042 - 37
Cust. #: WS-HM-41A
Material: East Addition Fiberboard, Brown
Location: East Side
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 65%
Other - 35%

Lab ID #: 101042 - 38
Cust. #: WS-HM-41B
Material: East Addition Fiberboard, Brown
Location: North Side
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 65%
Other - 35%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 39 Cust. #: WS-HM-42A Material: Plaster Ceiling Base Coat Location: North Area Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 39a Cust. #: WS-HM-42A Material: Glue Pod Location: North Area Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 40 Cust. #: WS-HM-42B Material: Plaster Ceiling Base Coat Location: Southwest Area Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 112 Woodworth St., Leslie, MI. 49251



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Lansing, MI 48901

ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 40a Cust. #: WS-HM-42B Material: Glue Pod Location: Southwest Area Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 41 Cust. #: WS-HM-43A Material: Ceiling Tile (1'x1') White/Brown Location: North Area Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 101042 - 41a Cust. #: WS-HM-43A Material: Glue Pod Location: North Area Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Project : 112 Woodworth St., Leslie, MI. 49251



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ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 42 Cust. #: WS-HM-43B Material: Ceiling Tile (1'x1') White/Brown Location: Northwest Area Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 101042 - 42a Cust. #: WS-HM-43B Material: Glue Pod Location: Northwest Area Appearance: brown, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 43 Cust. #: WS-HM-44A Material: Stair Tread, White/Grey Location: Northeast Stairs Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 112 Woodworth St., Leslie, MI. 49251



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ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 43a Cust. #: WS-HM-44A Material: Glue Location: Northeast Stairs Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 44 Cust. #: WS-HM-44B Material: Stair Tread, White/Grey Location: Northwest Stairs Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 101042 - 44a Cust. #: WS-HM-44B Material: Glue Location: Northwest Stairs Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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ARI Report # 22-101042
Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 101042 - 45 Cust. #: WS-HM-45A Material: Pipe Insulation Fitting, Grey Location: North Area Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 5% Fiberglass - 35% Other - 60%
Lab ID #: 101042 - 46 Cust. #: WS-HM-45B Material: Pipe Insulation Fitting, Grey Location: South Area Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 50%	Mineral Wool - 35% Other - 15%
Lab ID #: 101042 - 47 Cust. #: WS-HM-46A Material: Pipe Insulation Straight Run Location: North Area Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 50%	Other - 50%

For Layered Samples, each component will be analyzed and reported separately.

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Date Collected: 08/18/22
Date Received: 08/25/22
Date Analyzed: 08/30/22
Date Reported: 09/01/22

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 101042 - 48
Cust. #: WS-HM-46B
Material: Pipe Insulation Straight Run
Location: South Area
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

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APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566 Fax: (888) 448-8739Date of Survey: 8-18-23-22Project: 112 WOODWORTH ST.Project #: LESLIE, MI 49251Contact Person: Aaron Paquet

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

labdata@redcedarconsulting.net
PLM EPA 600, PC all samples with a detection of <5% ACM.

Rush 24 hour

48 hour 72 hour

Other: 5 Day (TTP) All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS-MM-01A	Brick/Mortar/S.E. corner			
	01B	" " / N.W. corner			
	02A	concrete slab/S.E. corner			
	02B	" " / S.W. wall			
	03A	window/door/canuck/S. wall			
	03B	" " / W. wall			
	04A	Brick/mortar/S. wall			
	04B	" " / N. wall			
	05A	concrete slab/S. wall slab			
	05B	" " / W. wall slab			
	06A	window/door/blk/S. wall			

Relinquished by: JEFF CAIN Received by: _____Date: 8-24-22Date: AUG 25 2022

Relinquished by: _____

Received by: _____

Date: _____

Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566Fax: (888) 448-8739Date of Survey: 8-18-23-22Project: 112 Woodworth St.Project #: LESIE, MR 49251Contact Person: Aaron Paquet

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

labdata@redcedarconsulting.net
PLM EPA 600, PC all samples with a detection of <5% ACM.

Rush 24 hour

48 hour 72 hour

Other: 5 Day TTP All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS8-HM-06B	Window/Door Caulk / N. Wall			
	07A	Window cement Board / S. Wall			
	07B	" " " " / N. Wall			
	08A	Brick/mortar / W. Wall			
	08B	" " " " / W. Wall			
	09A	concrete slab / N. Wall			
	09B	" " " " / W. Wall			
	10A	Window caulk / W. Wall			
	10B	" Brick " " / W. Wall			
	11A	Brick/mortar / N.W. corner			
	11B	" " " " / E. Entry			

Relinquished by: Jeff Cain Received by: _____Date: 8-24-22Date: AUG 25 2022
BL 1030

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566 Fax: (888) 448-8739Date of Survey: 8-18-23-22Project: 112 Woodworth StProject #: LB5118, ME 49251Contact Person: Aaron Paquet

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.
labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 Day (TTP) All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS-HM-12A	concrete slab (N.W. corner)			
	12B	" " (E. Entry)			
	13A	window/door caulk / E. Entry			
	13B	" " / W. wall			
	14A	concrete front approach			
	14B	" " " "			
	15A	N. door caulk (Bk)			
	15B	E. door caulk			
	16A	Gym/Vat / Wht / N.W. AREA			
	16B	" " " " / S.W. AREA			
	17A	Gym/Vat / RED / S.E. AREA			

Relinquished by: JEFF CAIN Received by: _____Date: 8-24-22Date: AUG 25 2022
BL 1030

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

APEX Research, Inc.

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Lab Use Only

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Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.
labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 DAY (TTP) All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
WS-HM-17B	→	4ym/Vat/RED/N.W. corner			
	WS-HM-18A	Fiber Board/wall/Bcm/N. Wall			
	18B	1' 1' 1' / S. wall			
	19A	Dry wall over window/N. wall			
	19B	1' 1' / S. wall			
	20A	Interior Brick/mortar/S. wall			
	20B	1' 1' 1' / N. wall			
	21A	1st FLR Plaster / E. wall			
	21B	1' 1' / W. wall			
	22A	DCS 2'x4' white / N.E. corner			
	22B	RECEIVED 1' / S. wall area			

Relinquished by: Jeff Cain Received by: AUG 25 2022Date: 8-24-22Date: APEX RESEARCH

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566 Fax: (888) 448-8739Date of Survey: 8/18-23/22Project: 112 Woodward St.Project #: LESLIE, MR 49251Contact Person: Aaron Paquet
 Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 DAY (TTP) All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS-HM-023A	Drywall Above Windows/E. Wall			
	23B	" " " " / S. Wall			
	24A	Pipe Ftg Grey mld / E. Wall			
	24B	" " " " / E. Wall			
	25A	Pipe Insul / E. Wall			
	25B	" " " " / E. Wall			
	26A	Vat Brown / N. Area			
	26B	" " " " / S. W. Area			
	27A	2nd Flr / Plaster ceiling / N. Area			
	27B	" " " " / S. Area			
	28A	Drywall Above Windows/E. Wall			

Relinquished by: JEFF CAINReceived by: RECEIVEDDate: 8-24-22Date: AUG 25 2022

Relinquished by: _____

Received by: _____

Date: _____

Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566 Fax: (888) 448-8739Date of Survey: 8/18-23/22Project: 112 Woodworth St.Project #: LES116, MR 42251Contact Person: Aaron Paquet

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.
labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 DAY (TTP) All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS-HM-28B	Drywall Above Windows / S. Wall			
	29A	VA+ White / E. AREA			
	29B	" " " / W. AREA			
	30A	Gym Roof / Flat Fiber Board / S.W. AREA			
	30B	" " " / N.W. AREA			
	31A	Gym Roof canily / Flashing / S. AREA			
	31B	" " " / E. AREA			
	32A	SA / Roof Lank Grey / E. AREA			
	32B	" " " / S. AREA			
	33A	SA / Roof Tar Bk / E. AREA			
	33B	" " " / S. AREA			

RECEIVED

Relinquished by: Jeff Cain Received by: _____Date: 8-24-22Date: AUG 25 2022

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

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E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566Fax: (888) 448-8739Date of Survey: 8/18-23/22Project: 112 Woodward St.Project #: LESLIE, MI 49251Contact Person: Aaron Paquet

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 Day (TTP) All SamplesAsbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS-HM-34A	SA/Roof Calk Blk/ W. AREA			
	34B	" " " " / S AREA			
	35A	orig Roof/PAN Flashing/ Center AREA			
	35B	" " " " / Center AREA			
	36A	orig Roof/ West Parapit (Roof Shingles)			
	36B	" " " " / South Parapit (Roof Shingles)			
	37A	orig Roof Roof Tar / W. Side			
	37B	" " " " / S. Side			
	38A	orig Roof Fiber Board / W. Side			
	38B	" " " " / S. Side			
	39A	E. ADD Roof Flashing / E. Side			

Relinquished by: JEFF Cain Received by: _____Date: 8-24-22Date: AUG 25 2022

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

APEX Research, Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990
E-mail: apexresearch@chartermi.net Fax: 734-449-9991



Client Name: Red Cedar Consulting
Address: PO Box 13216
City, St., Zip: Lansing, MI 48901
Phone: (888) 449-4566 Fax: (888) 448-8739

Date of Survey: 8/18-23/22

Project: 112 Woodward St.

Project #: LESLIE, MR 49251

Contact Person: Aaron Paquet

Lab Use Only
Log-In _____
Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.
labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 DAY (TTP) All Samples

Asbestos: Bulk X Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	WS-HM-39B	E. ADD ROOF FLASHING / N. END			
	40A	E. ADD ROOF ROOFING UNDER RUBBER / E. SIDE			
	40B	" " " " " " / N. SIDE			
	41A	E. ADD FIBERBOARD BRN / E. SIDE			
	41B	" " " " " " / N. SIDE			

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Relinquished by: JEFF CAIN Received by: AUG 25 2022

Date: 8-24-22

Date: BL 1036
APEX RESEARCH

Relinquished by: _____ Received by: _____

Date: _____ Date: _____

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990

E-mail: apexresearch@chartermi.net

Fax: 734-449-9991

Client Name: Red Cedar ConsultingAddress: PO Box 13216City, St., Zip: Lansing, MI 48901Phone: (888) 449-4566Fax: (888) 448-8739Date of Survey: 8/18-23/22Project: 112 woodworth stProject #: LESLIE, MR 49251Contact Person: Aaron Paquet

Lab Use Only

Log-In _____

Report _____

Turn Around Times: (Circle One)

PLM EPA 600, PC all samples with a detection of <5% ACM.
labdata@redcedarconsulting.net

Rush 24 hour

48 hour 72 hour

Other: 5 Day (TTP) All SamplesAsbestos: Bulk x Wipe _____ Point Count _____ PCM _____

Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____

Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____

TEM: AHERA 7400 _____ Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	<u>WS-HM-42A</u>	<u>Plaster ceiling / N. AREA</u>			
	<u>42B</u>	<u>12 11 / S.W. AREA</u>			
	<u>43A</u>	<u>ceiling tile (1'x1') WH/BIA / N. AREA</u>			
	<u>43B</u>	<u>12 11 11 / N.W. AREA</u>			
	<u>44A</u>	<u>stair Tread WH/BRY / N.E. STAIRS</u>			
	<u>44B</u>	<u>11 12 11 / N.W. STAIRS</u>			
	<u>45A</u>	<u>PIPE Insul Ftg Grey / N. AREA</u>			
	<u>45B</u>	<u>11 11 / S. AREA</u>			
	<u>46A</u>	<u>PIPE Insul straight RUN / N. AREA</u>			
	<u>46B</u>	<u>11 12 14 / S. AREA</u>			

Relinquished by: JEFF CAIR received by: _____Date: 8-24-22Date: AUG 25 2022

Relinquished by: _____ Received by: _____

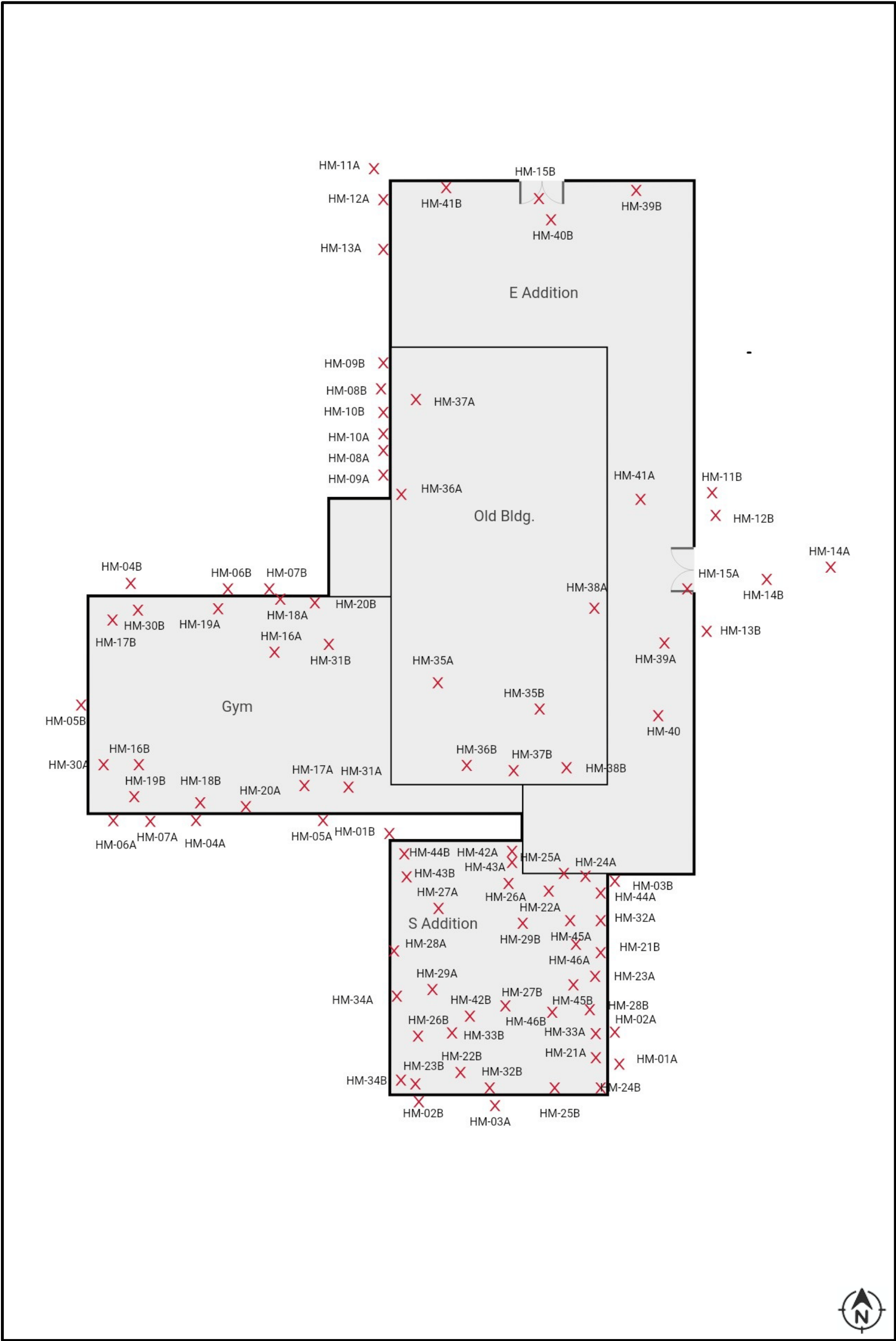
Date: _____ Date: _____

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BC 1030
APEX RESEARCH

Attachment B
Site Diagrams

Figure 1 Site Diagram



Note: Figure prepared by Red Cedar Consulting.

-Not To Scale-

Attachment C
Inspector Certifications/ID's

MICHIGAN DEPARTMENT OF
LABOR AND ECONOMIC OPPORTUNITY

(<http://michigan.gov/miosha>)

Individual Profile for PAQUET, AARON J.

Name and Address

Name

PAQUET, AARON J.

Address

228 WEST BERRY AVENUE
LANSING, MI 48910

License Information

Accreditation Type: Contractor/Supervisor

ID#: A30955

Status: Apprvd - Full

Expiration Date: 2/11/2023

Training Expiration Date: 1/13/2023

Accreditation Type: Inspector

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Accreditation Type: Management Planner

ID#: A30955

Status: Apprvd - Full

Expiration Date: 10/12/2022

Training Expiration Date: 7/16/2022

Environmental and Occupational Consulting and Training of MI, Inc.
2916 Business One Drive
Kalamazoo, MI 49048
269-383-6960

Aaron Paquet

Social Security Number: xxx-xx-2656
Has Successfully Completed

NIOSH 582 Equivalent: Method 7400

On August 29, 2019

In accordance with OSHA Construction Standard 1926.1101;

2018-0243

Certificate Number

Alisa Kahn Klinkel
Alisa Kahn Klinkel

(<http://michigan.gov/miosha>)

Individual Profile for CAIN, JEFFERY A.

Name and Address

Name

CAIN, JEFFERY A.

Address

1221 GORDON STREET
MOUNT MORRIS, MI 48458

License Information

Accreditation Type: Contractor/Supervisor

ID#: A14057

Status: Apprvd - Full

Expiration Date: 8/4/2023

Training Expiration Date: 5/5/2023

Accreditation Type: Inspector

ID#: A14057

Status: Apprvd - Full

Expiration Date: 8/4/2023

Training Expiration Date: 5/6/2023

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[Asbestos Program \(https://www.michigan.gov/asbestos\)](https://www.michigan.gov/asbestos)

[Policies \(http://www.michigan.gov/policies\)](http://www.michigan.gov/policies)

CERTIFICATE NO. NIOSH22090201

Training was conducted in accordance with
the requirements of the NIOSH 582 Course Equivalent;
OSHA 29 CFR 1926.1101, (b) App. A
AND NIOSH 7400 Method, Issue 3 – June 2019.

TILLOTSON ENVIRONMENTAL OCCUPATIONAL CONSULTING

presents this certificate to:

JEFF CAIN

Dated:

AUGUST 30 – SEPTEMBER 2, 2022

for successful completion of the course and examination for:

NIOSH 582 EQUIVALENT COURSE

Michael R. Tillotson

MICHAEL R. TILLOTSON/MSIH, CIH 1978-2018

3530 E. PRICE RD.
ST. JOHNS, MI 48879
989-227-2000

Tables

Table 1 - Summary of Hazardous Materials, 112 Woodworth St., Leslie, Michigan

Hazardous Materials Description and Location		
Location	Material Description	Quantity
Building	4' Fluorescent Light (Fixture and Ballast Only)	>50
Building	4' Fluorescent Bulb	>50
Building	Exit Signs	10

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 112 Woodworth St., Leslie, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
WS-HM-01A	Brick/ Mortar SE Corner	No	M	Category II	ND/ND	S Add. Ext.	5,985 sq. ft.
WS-HM-01B	Brick/Mortar NW Corner	No	M	Category II	ND/ND	S Add. Ext.	NA
WS-HM-02A	Concrete Slab/SE Corner	No	M	Category II	ND	S Add. Ext.	136 lin. ft.
WS-HM-02B	Concrete Slab SW Corner	No	M	Category II	ND	S Add. Ext.	NA
WS-HM-03A	Window/Door Caulk S Wall	No	M	Category II	ND	S Add. Ext.	475 lin. ft.
WS-HM-03B	Window/Door Caulk W Wall	No	M	Category II	ND	S Add. Ext.	NA
WS-HM-04A	Brick/Mortar S Wall	No	M	Category II	ND/ND	Gym Ext.	1,750 sq. ft..
WS-HM-04B	Brick Mortar N Wall	No	M	Category II	ND/ND	Gym Ext.	NA
WS-HM-05A	Concrete Slab/S Wall Slab	No	M	Category II	ND	Gym Ext.	3,200 sq. ft.
WS-HM-05B	Concrete Slab/W Wall Slab	No	M	Category II	ND	Gym Ext.	NA
WS-HM-06A	Window Caulk/Door/Black S Wall	No	M	Category II	ND	Gym Ext.	405 lin. ft.
WS-HM-06B	Window Caulk/Door/Black N Wall	No	M	Category II	ND	Gym Ext.	NA
WS-HM-07A	Window Cement Board S Wall	No	M	Category II	ND/ND/ND	Gym Ext.	625 sq. ft.
WS-HM-07B	Window Cement Board N Wall	No	M	Category II	ND/ND/ND	Gym Ext.	NA
WS-HM-08A	Brick/Mortar W Wall	No	M	Category II	ND/ND	Orig. Bldg. Ext.	2,950 sq. ft.
WS-HM-08B	Brick/Mortar W Wall	No	M	Category II	ND/ND	Orig. Bldg. Ext.	NA
WS-HM-09A	Concrete Slab/ W Wall	No	M	Category II	ND	Orig. Bldg. Ext.	1,400 sq. ft.
WS-HM-09B	Concrete Slab/ W Wall	No	M	Category II	ND	Orig. Bldg. Ext.	NA
WS-HM-10A	Window Caulk W Wall	No	M	Category II	ND	Orig. Bldg. Ext.	50 lin. ft.
WS-HM-10B	Window Caulk W Wall	No	M	Category II	ND	Orig. Bldg. Ext.	NA
WS-HM-11A	Brick/Mortar NW Corner	No	M	Category II	ND/ND	E Add. Ext.	9,900 sq. ft.
WS-HM-11B	Brick/ Mortar E Entry	No	M	Category II	ND/ND	E Add. Ext.	NA
WS-HM-12A	Concrete Slab/NW Corner	No	M	Category II	ND	E Add. Ext.	14,000 sq. ft..
WS-HM-12B	Concrete Slab/E Entry	No	M	Category II	ND	E Add. Ext.	NA
WS-HM-13A	Window/Door Caulk E Entry	No	M	Category II	ND	E Add. Ext.	850- sq. ft.
WS-HM-13B	Window/Door Caulk W Wall	No	M	Category II	ND	E Add. Ext.	NA
WS-HM-14A	Concrete Front Approach	No	M	Category II	ND	E Add. Ext.	750 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 112 Woodworth St., Leslie, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
WS-HM-14B	Concrete Front Approach	No	M	Category II	ND	E Add. Ext.	NA
WS-HM-15A	N Door Caulk Black	No	M	Category II	ND	E Add. Ext.	50 lin. ft.
WS-HM-15B	E Door Caulk Black	No	M	Category II	ND	E Add. Ext.	NA
WS-HM-16A	Gym VAT White NW Area	No	M	Category I	ND/ND	Gym Interior	2,600 sq. ft.
WS-HM-16B	Gym VAT White SW Area	No	M	Category I	ND/ND	Gym Interior	NA
WS-HM-17A	Gym VAT Red SE Area	No	M	Category I	ND/ND	Gym Interior	850 sq. ft.
WS-HM-17B	Gym VAT Red NW Area	No	M	Category I	ND/ND/ND	Gym Interior	NA
WS-HM-18A	Fiberboard white/brown N Wall	Yes	M	Category II	ND	Gym Interior	1,100 sq. ft.
WS-HM-18B	Fiberboard white/brown S Wall	Yes	M	Category II	ND	Gym Interior	NA
WS-HM-19A	Drywall over Window N Wall	No	M	Category II	ND/ND	Gym Interior	390 sq. ft.
WS-HM-19B	Drywall over window S Wall	No	M	Category II	ND/ND	Gym Interior	NA
WS-HM-20A	Interior Brick/Mortar S Wall	No	M	Category II	ND/ND	Gym Interior	5,300 sq. ft.
WS-HM-20B	Interior Brick/Mortar N Wall	No	M	Category II	ND/ND	Gym Interior	NA
WS-HM-21A	1st Fl. Plaster E Wall	No	S	Category II	ND/ND/ND	S Add. Interior 1 st Fl	2,500 sq. ft.
WS-HM-21B	1st Fl. Plaster W Wall	No	S	Category II	ND/ND/ND	S Add. Interior 1 st Fl	NA
WS-HM-22A	OCT 2'x4' White/NE Corner	Yes	M	Category II	ND	S Add. Interior 1 st Fl	2,500 sq. ft.
WS-HM-22B	OCT 2'x4' White/S Wall	Yes	M	Category II	ND	S Add. Interior 1 st Fl	NA
WS-HM-23A	Drywall Above Window E Wall	No	M	Category II	ND	S Add. Interior 1 st Fl	400 sq. ft.
WS-HM-23B	Drywall Above Window S Wall	No	M	Category II	ND	S Add. Interior 1 st Fl	NA
WS-HM-24A	Pipe Fitt. Gray Mud NE Wall	Yes	T	Category II	70% CH	S Add. Interior 1 st Fl	10 fittings
WS-HM-24B	Pipe Fitt. Gray Mud E Wall	Yes	T	Category II	NA	S Add. Interior 1 st Fl	NA
WS-HM-25A	Pipe Insulation E Wall	Yes	T	Category II	60% CH	S Add. Interior 1 st Fl	100 lin. ft.
WS-HM-25B	Pipe Insulation E Wall	Yes	T	Category II	NA	S Add. Interior 1 st Fl	NA
WS-HM-26A	VAT Brown N Area	No	M	Category I	5% CH/ND	S Add. Interior 1 st Fl	2,500 sq. ft.
WS-HM-26B	VAT Brown SW Area	No	M	Category I	NA/ND	S Add. Interior 1 st Fl	NA
WS-HM-27A	2 nd Fl. Plaster Ceiling N Area	No	S	Category II	ND/ND/ND	S Add. Interior 2 nd Fl	2,500 sq. ft.
WS-HM-27B	2 nd Fl. Plaster Ceiling S Area	No	S	Category II	ND/ND/ND	S Add. Interior 2 nd Fl	NA
WS-HM-28A	Drywall above Window E Wall	No	M	Category II	ND/ND	S Add. Interior 2 nd Fl	400 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 112 Woodworth St., Leslie, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
WS-HM-28B	Drywall above Window S Wall	No	M	Category II	ND/ND/ND	S Add. Interior 2 nd Fl	NA
WS-HM-29A	VAT White E Area	No	M	Category II	10% CH/ND	S Add. Interior 2 nd Fl	2,500 sq. ft.
WS-HM-29B	VAT White W Area	No	M	Category II	NA/ND	S Add. Interior 2 nd Fl	NA
WS-HM-30A	Gym Roof Flat Fiberboard SW Area	Yes	M	Category II	ND/ND	Gym Exterior	3,500 sq. ft.
WS-HM-30B	Gym Roof Flat Fiberboard NW Area	Yes	M	Category II	ND/ND	Gym Exterior	NA
WS-HM-31A	Gym Roof Caulk/Flashing S Area	No	M	Category I	ND	Gym Exterior	400 sq. ft.
WS-HM-31B	Gym Roof Caulk/Flashing E Area	No	M	Category I	ND	Gym Exterior	NA
WS-HM-32A	S Add. Roof Caulk Grey E Area	No	M	Category I	ND	S Add. Exterior	2,500 sq. ft.
WS-HM-32B	S Add. Roof Caulk Grey S Area	No	M	Category I	ND	S Add. Exterior	NA
WS-HM-33A	S Add. Roof Tar Blk. E Area	No	M	Category I	10% CH	S Add. Exterior	2,500 sq. ft.
WS-HM-33B	S Add. Roof Tar Blk. S Area	No	M	Category I	NA	S Add. Exterior	NA
WS-HM-34A	S Add. Roof Caulk Black W Area	No	M	Category I	15% CH	S Add. Exterior	2,500 sq. ft.
WS-HM-34B	S Add. Roof Caulk Black S Area	No	M	Category I	NA	S Add. Exterior	NA
WS-HM-35A	Orig. Roof Pan Flashing Center Area	No	M	Category I	10% CH	Old Bldg. Ext.	4,500 sq. ft.
WS-HM-35B	Orig. Roof Pan Flashing Center Area	No	M	Category I	NA	Old Bldg. Ext.	NA
WS-HM-36A	Orig. Roof/ W Parapet Roof Shingles	No	M	Category I	ND	Old Bldg. Ext.	3,200 sq. ft.
WS-HM-36B	Orig. Roof/ W Parapet Roof Shingles	No	M	Category I	ND	Old Bldg. Ext.	NA
WS-HM-37A	Orig. Roof Tar W Side	No	M	Category I	10% CH	Old Bldg. Ext.	2,500 sq. ft.
WS-HM-37B	Orig. Roof Tar S Side	No	M	Category I	NA	Old Bldg. Ext.	NA
WS-HM-38A	Orig. Roof Fiberboard W Side	Yes	M	Category II	ND	Old Bldg. Ext.	2,500 sq. ft.
WS-HM-38B	Orig. Roof Fiberboard S Side	Yes	M	Category II	ND	Old Bldg. Ext.	NA
WS-HM-39A	E Add. Roof Flashing E Side	No	M	Category I	ND	E Addition Ext.	2,800 sq. ft.
WS-HM-39B	E Add. Roof Flashing N End	No	M	Category I	ND	E Addition Ext.	NA
WS-HM-40A	E Add. Roofing under rubber E	No	M	Category I	ND	E Addition Ext.	2,800 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 112 Woodworth St., Leslie, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
	Side						
WS-HM-40B	E Add. Roofing under rubber N Side	No	M	Category I	ND	E Addition Ext.	NA
WS-HM-41A	E Add. Fiberboard Brown E Side	Yes	M	Category II	ND	E Addition Ext.	2,800 sq. ft.
WS-HM-41B	E Add. Fiberboard Brown N Side	Yes	M	Category II	ND	E Addition Ext.	NA
WS-HM-42A	Plaster Ceiling N Area	No	S	Category II	ND/ND	S Add. Basement	2,500 sq. ft.
WS-HM-42B	Plaster Ceiling SW Area	No	S	Category II	ND/ND	S Add. Basement	NA
WS-HM-43A	Ceiling Tile 1x1/Glue Pod NW Area	Yes	M	Category II	ND/ND	S Add. Basement	2,500 sq. ft.
WS-HM-43B	Ceiling Tile 1x1/Glue Pod NE Area	Yes	M	Category II	ND/ND	S Add. Basement	NA
WS-HM-44A	Stair Tread White/Gray NE Stairs	No	M	Category I	ND/ND	S Add. Basement	600 sq. ft.
WS-HM-44B	Stair Tread White/Gray NW Stairs	No	M	Category I	ND/ND	S Add. Basement	NA
WS-HM-45A	Pipe Insulation/Fitting Grey N Area	Yes	T	Category I	ND	S Add. Basement	NA
WS-HM-45B	Pipe Insulation/Fitting Grey S Area	Yes	T	Category II	50 % CH	S Add. Basement	20 fittings
WS-HM-46A	Pipe Insulation Straight Run N Area	Yes	T	Category II	50% CH	S Add. Basement	200 lin. ft.
WS-HM-46B	Pipe Insulation Straight Run S Area	Yes	T	Category II	NA	S Add. Basement	NA

Notes:

Material Types

M = Miscellaneous building material
 TSI = Thermal System Insulation
 S = Surfacing Material
 PC = Point Count Analysis
 CH = Chrysotile Asbestos

Abbreviations

NQ = Not quantified
 NA = Not Analyzed
 ND = Not detected. Laboratory result is less than 1 % asbestos
 lin. ft. = linear feet
 sq. ft. = square feet

Asbestos Containing Material (ACM) is defined as any material containing more than 1 percent asbestos as determined utilizing Polarized Light Microscopy.

Table 3 - Summary of Presumed Asbestos Containing Materials, 112 Woodworth St., Leslie, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
No Presumed Asbestos Containing Materials Identified					

Notes:

Material Types

M = Miscellaneous building material
TSI = Thermal System Insulation
S = Surfacing Material

Abbreviations

lin. ft. = linear feet
sq. ft. = square feet

Table 4 - Summary of All Identified Asbestos Containing Materials, 112 Woodworth St., Leslie, Michigan

Exterior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
S Add. Exterior	S Add. Roof Tar Blk. E Area	No	2,500 sq. ft.
S Add. Exterior	S Add. Roof Caulk Black W Area	No	2,500 sq. ft.
Old Bldg. Ext.	Orig. Roof Pan Flashing Center Area	No	4,500 sq. ft.
Old Bldg. Ext.	Orig. Roof Tar W Side	No	2,500 sq. ft.
Total			12,000 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
S Add. Interior 1 st Fl	VAT Brown N Area (Vinyl Tile only)	No	2,500 sq. ft.
S Add. Interior 2 nd Fl	VAT White E Area (Vinyl Tile only)	No	2,500 sq. ft.
Total			5,000 sq. ft.
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
S Add. Interior 1 st Fl	Pipe Fitt. Gray Mud NE Wall	Yes	10 fittings
S Add. Basement	Pipe Insulation/Fitting Grey S Area		20 fittings
Total			30 fittings
Interior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
S Add. Interior 1 st Fl	Pipe Insulation E Wall	Yes	100 lin. ft.
S Add. Basement	Pipe Insulation Straight Run N Area		200 lin. ft.
Total			300 lin. ft.

Notes:

Abbreviations

lin. ft. = linear feet

sq. ft. = square feet

Shaded/Bolded = Friable ACM and any Category I and Category II non-friable ACM that has a high probability of becoming crumbled, pulverized, or reduced to powder by the demolition or renovation activities that must be properly abated prior to commencement of any demolition/renovation activities.

Table 4 - Summary of All Identified Asbestos Containing Materials, 112 Woodworth St., Leslie, Michigan

Demolition/renovation activities completed with intact Category I non-friable ACM are regulated by OSHA and must be completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

Please note that a Negative Pressure Enclosure must be utilized during abatement when Site Conditions Warrant. Examples of these conditions include the abatement of Plaster and Vermiculite insulation, HVAC Duct Wrap in Poor Condition, and Air-O-Cell/Mag Pipe Wrap. Conditions outside of these should be assessed on a case by case basis during the Asbestos Abatement Contractors site walk and Work Plan Preparation.