RED CEDAR CONSULTING

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Lansing, MI 48901
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May 11, 2022

Mr. Michael Andrick
Ingham County Land Bank
3024 Turner St.
Lansing, MI 48906

RE: Asbestos Containing Material and Hazardous Materials Inspection
913 Motor Ave., Lansing, MI 48910
Parcel ID: 33-01-01-22-309-101

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 913 Motor Ave., Lansing, 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 .08-acre residential parcel which contains an approximate 766 square foot residential building (the Building) constructed in 1919. The Building was constructed on a concrete basement with one aboveground floor. The exterior walls of the Building were finished with wood asphalt lap siding over wood lap while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, dining room, kitchen, bath, rear entry and two bedrooms on the first floor.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 20, 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:

- Asphalt Shingle
- Asphalt Siding
- 9x9 Vinyl Tile
- 1x1 Ceiling Tile/Glue Pd
- Drywall & Compound
- Window Grout
- Concrete
- Glazing
- Flashing
- Linoleum
- Sink Undercoat
- Plaster
- Texture

Red Cedar staff collected thirty-eight samples of suspect ACBM separated into seventeen 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 thirty-eight samples is included as Attachment A.

Hazardous Materials Inspection

On April 20, 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, thirty-eight 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. Photos of each different type of ACM identified during this inspection are included in Attachment C and copies of the Asbestos Inspectors certifications are included as Attachment D.

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.

The HVAC Duct Wrap located in the Building was classified as PACM due to the age of the structure and samples were not collected.

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

Duct Wrap identified in the building in conjunction with the forced air heating system is classified as friable ACM. The visual assessment to quantify the extent of this material identified HVAC Duct Wrap at the following locations within the basement, first and second floors:

- Basement (4 in. dia. HVAC Wrapped Ductwork and Tape on CA Ductwork, 20 lin. ft.)

Category I ACM

A resilient floor covering (9x9 Tan VFT on Concrete) located within the bathroom was found to contain up to 5% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 45 sq. ft. of this material within the Building.

Category II ACM

Drywall Compound samples, collected from the Building were found to contain up to 1.5% asbestos following analysis. The assessment to quantify the extent of this material identified approximately 1,165 sq. ft. of drywall compound within the Building.

RECOMMENDATIONS

Asbestos Containing Materials

HVAC material identified in the Building system and listed below is classified as friable ACM and should be removed prior to any renovation/demolition activities.

- Basement (4 in. dia. HVAC Wrapped Ductwork and Tape on CA Ductwork, 20 lin. ft.)

Drywall Compound identified on the interior of the Building must be abated prior to completion of any renovation/demolition activities at the Subject Property. Any 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 must be properly abated.

The Category I resilient floor covering (9x9 Tan VFT) is a non-friable ACM's that may be left in place as long as the demolition/renovation activities are completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

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:

- Thermostat (1)
- Fire Extinguisher (1)
- Smoke Detector (1)

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

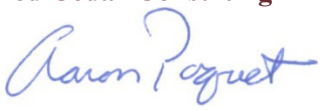
DISCLAIMER

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, Exp. 10-12-2022)

Attachment A

APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

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

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 01 Cust. #: MT-HM-01A Material: Black Shingle Roofing Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99402 - 01a Cust. #: MT-HM-01A Material: Brown Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99402 - 01b Cust. #: MT-HM-01A Material: Green Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%

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

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.

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 01c Cust. #: MT-HM-01A Material: Felt Location: Appearance: black,fibrous,homogenous Layer: 4 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99402 - 02 Cust. #: MT-HM-01B Material: Black Shingle Roofing Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99402 - 02a Cust. #: MT-HM-01B Material: Brown Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%

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Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 02b Cust. #: MT-HM-01B Material: Green Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99402 - 02c Cust. #: MT-HM-01B Material: Felt Location: Appearance: black,fibrous,homogenous Layer: 4 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99402 - 03 Cust. #: MT-HM-02A Material: Asphalt Siding Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%

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Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 04 Cust. #: MT-HM-02B Material: Asphalt Siding Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99402 - 05 Cust. #: MT-HM-03A Material: 9x9 Tan VFT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **YES** Chrysotile - 5%	Other - 95%
Lab ID #: 99402 - 05a Cust. #: MT-HM-03A Material: Mastic Location: Appearance: black,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 #: 99402 - 06 Cust. #: MT-HM-03B Material: 9x9 Tan VFT Location: Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 99402 - 06a Cust. #: MT-HM-03B Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 07 Cust. #: MT-HM-04A Material: 1x1 White CT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%

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Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 07a Cust. #: MT-HM-04A Material: Glue Pods Location: Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99402 - 08 Cust. #: MT-HM-04B Material: 1x1 White CT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 99402 - 08a Cust. #: MT-HM-04B Material: Glue Pods Location: Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%

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Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 09 Cust. #: MT-HM-05A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99402 - 09a Cust. #: MT-HM-05A Material: Joint Compound Location: Appearance: beige,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **YES** Chrysotile - 1.50% POINT COUNT RESULT	Other - 98.50%
Lab ID #: 99402 - 10 Cust. #: MT-HM-05B Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 10a Cust. #: MT-HM-05B Material: Joint Compound Location: Appearance: Layer: 2 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 99402 - 11 Cust. #: MT-HM-06A Material: Basement Window Grout Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 12 Cust. #: MT-HM-06B Material: Basement Window Grout 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 #: 99402 - 13 Cust. #: MT-HM-07A Material: Concrete Location: Steps/Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 14 Cust. #: MT-HM-07B Material: Concrete Location: Steps/Wall Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 15 Cust. #: MT-HM-08A Material: Basement Floor Concrete 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 #: 99402 - 16 Cust. #: MT-HM-08B Material: Basement Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 17 Cust. #: MT-HM-09A Material: Garage Concrete Location: Floor/Ceiling Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 18 Cust. #: MT-HM-09B Material: Garage Concrete Location: Floor/Ceiling Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

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

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 19 Cust. #: MT-HM-10A Material: Window Glazing Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99402 - 20 Cust. #: MT-HM-10B Material: Window Glazing Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99402 - 21 Cust. #: MT-HM-11A Material: Sidewalk/Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

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

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 22 Cust. #: MT-HM-11B Material: Sidewalk/Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 23 Cust. #: MT-HM-12A Material: Steps Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 24 Cust. #: MT-HM-12B Material: Steps Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

Report To:
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Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 25 Cust. #: MT-HM-13A Material: Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 99402 - 26 Cust. #: MT-HM-13B Material: Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 99402 - 27 Cust. #: MT-HM-14A Material: Yellow Glue Location: Kitchen Appearance: yellow,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

Report To:
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P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 27a Cust. #: MT-HM-14A Material: Brown Linoleum Remnant/Felt Location: Kitchen Appearance: brown,fibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 99402 - 27b Cust. #: MT-HM-14A Material: Brown Glue Location: Kitchen Appearance: brown,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 28 Cust. #: MT-HM-14B Material: Yellow Glue Location: Kitchen Appearance: yellow,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

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

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 28a Cust. #: MT-HM-14B Material: Brown Linoleum Remnant/Felt Location: Kitchen Appearance: brown,fibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 99402 - 28b Cust. #: MT-HM-14B Material: Brown Glue Location: Kitchen Appearance: brown,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 29 Cust. #: MT-HS-01A Material: Plaster Finish Coat Location: Appearance: white,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.

Robert T. Letarte Jr., Laboratory Director

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Project : 913 Motor Ave.

Report To:
Mr. Aaron Paquet
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P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 29a Cust. #: MT-HS-01A Material: Plaster Base Coat Location: Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 5% Other - 95%
Lab ID #: 99402 - 30 Cust. #: MT-HS-01B Material: Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 30a Cust. #: MT-HS-01B Material: Plaster Base Coat Location: Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%

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

Robert T. Letarte Jr., Laboratory Director

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Project : 913 Motor Ave.

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Lansing, MI 48901

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 31 Cust. #: MT-HS-01C Material: Plaster Base Coat Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%
Lab ID #: 99402 - 32 Cust. #: MT-HS-01D Material: Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99402 - 32a Cust. #: MT-HS-01D Material: Plaster Base Coat Location: Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%

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

Robert T. Letarte Jr., Laboratory Director

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Project : 913 Motor Ave.

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

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 33 Cust. #: MT-HS-01E Material: Plaster Base Coat Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 99402 - 34 Cust. #: MT-HS-02A Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99402 - 35 Cust. #: MT-HS-02B Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

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

ARI Report # 22-99402
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99402 - 36 Cust. #: MT-HS-02C Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 913 Motor Ave.

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

ARI Report # 22-99533
Date Collected: 04/30/22
Date Received: 05/03/22
Date Analyzed: 05/03/22
Date Reported: 05/04/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99533 - 01 Cust. #: MT-HM-15A Material: Sink Undercoat Location: Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99533 - 02 Cust. #: MT-HM-15B Material: Sink Undercoat Location: Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

Robert T. Letarte Jr., Laboratory Director

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Apex # **99402** Page **1**

1 of 4

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 : 4-20-22
Project : 913 Motor Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	MT-HH-01A	Black Shingle Roofing			
	01B	" " "			
	02A	Asphalt Siding			
	02B	" "			
	03A	9x9 tan VFT			
	03B	" " "			
	04A	1x1 White CT w/glue pods			
	04B	" " " " " "			
	05A	Drywall + Joint Compound			
	05B	" " " "			
	06A	Basement Window Grout			

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Client Name: Red Cedar Consulting
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Date of Survey : 4-20-22
Project : 913 Motor Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	MT-HM-06B	Basement Window Grout			
	07A	Concrete - Steps + Wall			
	07B	" " "			
	08A	Basement floor Concrete			
	08B	" " "			
	09A	Garage Concrete - floor + ceiling			
	09B	" " " "			
	10A	Window Glazing			
	10B	" "			
	11A	Sidewalk + Driveway Concrete			
	11B	" " "			

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Apex # **99402** Page **3**

3 of 4

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Lab Use Only
Log-In ____
Report ____

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 : 4-20-22
Project : 913 Motor Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Turn Around Times: (Circle One)

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

Rush 24 hour
48 hour (72 hour)
Other : _____ (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
	MT-HM-12A	Steps Concrete			
	12B	" "			
	13A	Flashing			
	13B	"			
	14A	Brown Kitchen Lin Remnant			
	14B	" " " "			
	MT-HS-01A	Plaster			
	01B	"			
	01C	"			
	01D	"			
	01E	"			

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4 of 4

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

Date of Survey : 4-20-22
Project : 913 Motor Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

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Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	MT-HS-02A	Textured Surfacing			
	02B	" "			
	02C	" "			

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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 : 4-30-22
Project : 913 Motor Ave.
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Turn Around Times: (Circle One)

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

Rush (24 hour)
48 hour 72 hour
Other : _____ (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
	MT-HM-15A	KT. Sink Undercoat			
	↓ 15B	" "			

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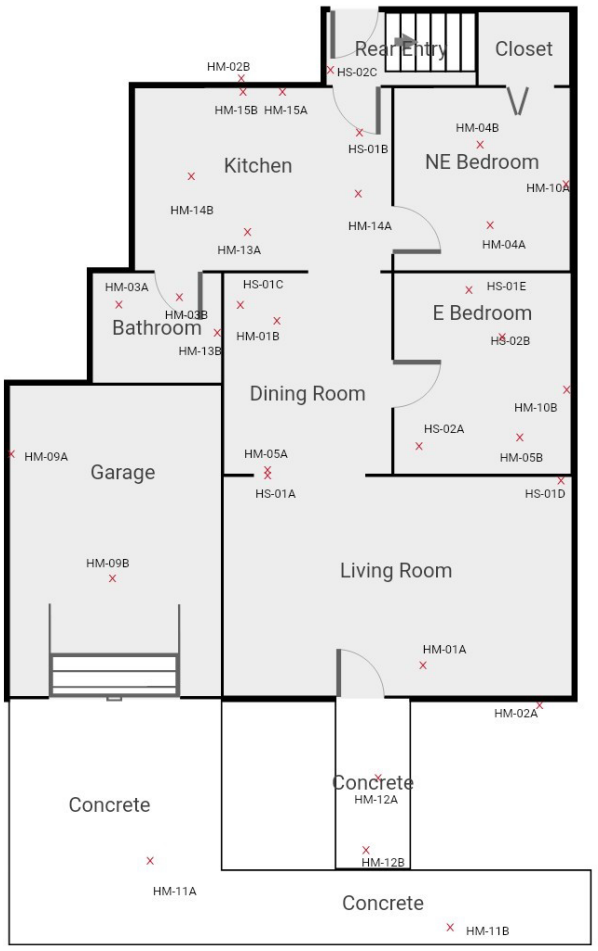
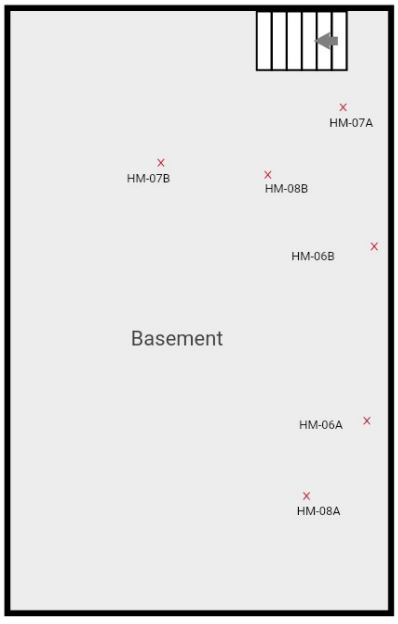
Attachment B

Site Diagrams

Figure 1 Site Diagram





Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
913 Motor Ave.
Lansing, MI

Attachment C

ACM Photos

PHOTO: 1 **BY: A. Paquet**
SUBJECT: View of front of the Property.

PHOTO: 2 **BY: A. Paquet**
SUBJECT: Drywall Compound E Bedroom Ceiling

PHOTO: 3 **BY: A. Paquet**
SUBJECT: Bathroom 9x9 Tan VFT

PHOTO: 4 **BY: A. Paquet**
SUBJECT: Basement HVAC Wrap Typical

Attachment D

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

Tables

Table 1 - Summary of Hazardous Materials, 913 Motor Ave., Lansing, Michigan

Hazardous Materials Description and Location		
Location	**Material Description**	**Quantity**
Dining	Thermostat	1
Kitchen	Fire Extinguisher	1
Basement	Smoke Detector	1

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 913 Motor Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MT-HM-01A	Black Shingle Roofing	No	M	Category I	ND/ND/ND/ND	Exterior	1,800 sq. ft.
MT-HM-01B	Black Shingle Roofing	No	M	Category I	ND/ND/ND/ND	Exterior	NA
MT-HM-02A	Asphalt Siding	Yes	M	Category II	ND	Exterior	2,100 sq. ft.
MT-HM-02B	Asphalt Siding	Yes	M	Category II	ND	Exterior	NA
MT-HM-03A	9x9 Tan VFT	No	M	Category I	5%/ND	Bathroom	45 sq. ft.
MT-HM-03B	9x9 Tan VFT	No	M	Category I	NA/ND	Bathroom	NA
MT-HM-04A	1x1 White CT with/glue pod	Yes	M	Category II	ND/ND	NE Bedroom	120 sq. ft.
MT-HM-04B	1x1 White CT with/glue pod	Yes	M	Category II	ND/ND	E Bedroom	NA
MT-HM-05A	Drywall & Compound	No	M	Category II	ND/1.5% CH	E Bedroom Ceiling	1,165 sq. ft.
MT-HM-05B	Drywall & Compound	No	M	Category II	ND/NA	Living Ceiling	NA
MT-HM-06A	Basement Window Grout	No	M	Category II	ND	Basement	8 Glass Block windows
MT-HM-06B	Basement Window Grout	No	M	Category II	ND	Basement	NA
MT-HM-07A	Concrete Steps & Wall	No	M	Category II	ND	Exterior	850 sq. ft.
MT-HM-07B	Concrete Steps & Wall	No	M	Category II	ND	Exterior	NA
MT-HM-08A	Basement Floor Concrete	No	M	Category II	ND	Basement	750 sq. ft.
MT-HM-08B	Basement Floor Concrete	No	M	Category II	ND	Basement	NA
MT-HM-09A	Garage Concrete floor and ceiling	No	M	Category II	ND	Garage	1,250 sq. ft.
MT-HM-09B	Garage Concrete floor and ceiling	No	M	Category II	ND	Garage	NA
MT-HM-10A	Window Glazing	Yes	M	Category II	ND	E Bedroom	2 Windows
MT-HM-10B	Window Glazing	Yes	M	Category II	ND	NE Bedroom	NA
MT-HM-11A	Sidewalk & Driveway Concrete	No	M	Category II	ND	Exterior	650 sq. ft.
MT-HM-11B	Sidewalk & Driveway Concrete	No	M	Category II	ND	Exterior	NA
MT-HM-12A	Steps Concrete	No	M	Category II	ND	Exterior	100 sq. ft.
MT-HM-12B	Steps Concrete	No	M	Category II	ND	Exterior	NA
MT-HM-13A	Flashing	No	M	Category II	ND	Exterior	15 sq. ft.
MT-HM-13B	Flashing	No	M	Category II	ND	Exterior	NA

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 913 Motor Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MT-HM-14A	Brown Kitchen Lin. Remnant	No	M	Category I	ND/ND/ND	Kitchen	20 sq. ft.
MT-HM-14B	Brown Kitchen Lin. Remnant	No	M	Category I	ND/ND/ND	Kitchen	NA
MT-HM-15A	Sink Undercoat	No	M	Category II	ND	Kitchen	1 Sink
MT-HM-15B	Sink Undercoat	No	M	Category II	ND	Kitchen	NA
MT-HS-01A	Plaster	No	S	Category II	ND/ND	Living Ceiling	4,100 sq. ft.
MT-HS-01B	Plaster	No	S	Category II	ND/ND	Kitchen Ceiling	NA
MT-HS-01C	Plaster	No	S	Category II	ND/ND	Dining Wall	NA
MT-HS-01D	Plaster	No	S	Category II	ND/ND	Living Wall	NA
MT-HS-01E	Plaster	No	S	Category II	ND/ND	E Bedroom Wall	NA
MT-HS-02A	Texture	No	S	Category II	ND	E Bedroom Ceiling	205 sq. ft.
MT-HS-02B	Texture	No	S	Category II	ND	E Bedroom Ceiling	NA
MT-HS-02C	Texture	No	S	Category II	ND	Rear Entry Wall	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, 913 Motor Ave., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	**Material Description**	**Friable**	**Condition**	**Material Type**	**Approx. Quantity**
Basement (4 in. dia. HVAC Wrapped Ductwork and Tape on CA Ductwork, 20 lin. ft.)	HVAC Duct Wrap	Yes	Fair	TSI	20 lin. ft.

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 Asbestos Containing Materials, 913 Motor Ave., Lansing, Michigan

Interior - Asbestos Containing Materials				
Location	**Material Description**		**Friable**	**Approx. Quantity**
Bathroom	9x9 Tan VFT on concrete		No	45 sq. ft.
		Total		**45 sq. ft.**
Interior - Asbestos Containing Materials				
Location	**Material Description**		**Friable**	**Approx. Quantity**
Basement (4 in. dia. HVAC Wrapped Ductwork and Tape on CA Ductwork, 20 lin. ft.)	HVAC Duct Wrap		Yes	20 lin. ft.
		Total		**20 lin. ft.**
Interior - Asbestos Containing Materials				
Location	**Material Description**		**Friable**	**Approx. Quantity**
Living, Rear Entry, E Bedroom, NE Bedroom	Drywall Compound		No	1,165 sq. ft.
		Total		**1,165 sq. 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.

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.

RED CEDAR CONSULTING

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

May 12, 2022

Mr. Michael Andrick
Ingham County Land Bank
3024 Turner St.
Lansing, MI 48906

RE: Asbestos Containing Material and Hazardous Materials Inspection
1735 Lyon's Ave., Lansing, MI 48910
Parcel ID: 33-01-01-22-352-261

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 1735 Lyon's Ave., Lansing, 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 .15-acre residential parcel which contains an approximate 1,469 square foot residential building (the Building) constructed in 1920. The Building was constructed on a concrete basement with two aboveground floors. The exterior walls of the Building were finished with vinyl siding while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, dining room, kitchen, bath, rear entry and bedroom on the first floor while the second floor contains two bedrooms and a bathroom.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 20, 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:

- Asphalt Shingle
- Vapor Barrier
- Linoleum
- 9x9 Vinyl Floor Tile
- Concrete
- Window Glazing
- Flashing
- Sink Undercoat
- Texture
- Gray Plaster
- Textured Surfacing
- Red Sand Plaster

Red Cedar staff collected fifty-eight samples of suspect ACBM separated into twenty-five 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 fifty-eight samples is included as Attachment A.

Hazardous Materials Inspection

On April 20, 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, fifty-eight 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. Photos of each different type of ACM identified during this inspection are included in Attachment C and copies of the Asbestos Inspectors certifications are included as Attachment D.

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.

The HVAC Duct Wrap located in the Building was classified as PACM due to the age of the structure and samples were not collected.

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

Duct Wrap identified in the building in conjunction with the forced air heating system is classified as friable ACM. The visual assessment to quantify the extent of this material identified HVAC Duct Wrap at the following locations within the basement, first and second floors:

- Basement (1 covered floor register, 5 sq. ft.)

Category I ACM

Two types of resilient floor covering (White Layered Linoleum (Brown Tile beneath raised floor system) and (Gray Layered Linoleum (Brown Tile beneath raised floor system) located within the kitchen and bath were found to contain up to 5% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 210 sq. ft. of this material within the Building.

Category II ACM

A sink undercoat sample collected from the kitchen sink was found to contain up to 15% asbestos following analysis. The assessment to quantify the extent of this material identified one sink within the Building.

RECOMMENDATIONS

Asbestos Containing Materials

HVAC material identified in the Building system and listed below is classified as friable ACM and should be removed prior to any renovation/demolition activities.

- Basement (1 covered floor register, 5 sq. ft.)

Kitchen sink undercoat identified on the interior of the Building must be abated prior to completion of any renovation/demolition activities at the Subject Property. Any 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 must be properly abated.

The Category I resilient floor coverings (White Layered Linoleum (Brown Tile beneath raised floor system) and (Gray Layered Linoleum (Brown Tile beneath raised floor system) are non-friable ACM's that may be left in place as long as the demolition/renovation activities are completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

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:

- Smoke Detector (2)

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

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, Exp. 10-12-2022)

Attachment A

APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 01 Cust. #: LA-HM-01A Material: Black Roofing/Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 99403 - 01a Cust. #: LA-HM-01A Material: Felt Location: Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99403 - 02 Cust. #: LA-HM-01B Material: Black Roofing/Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 02a Cust. #: LA-HM-01B Material: Felt Location: Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 99403 - 03 Cust. #: LA-HM-02A Material: Vapor Barrier Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 70% Other - 30%
Lab ID #: 99403 - 04 Cust. #: LA-HM-02B Material: Vapor Barrier Location: Appearance: brown,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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 05 Cust. #: LA-HM-03A Material: White 12" Squared Lin. Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Fiberglass - 5% Other - 93%
Lab ID #: 99403 - 06 Cust. #: LA-HM-03B Material: White 12" Squared Lin. Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 2% Fiberglass - 5% Other - 93%
Lab ID #: 99403 - 07 Cust. #: LA-HM-04A Material: Black 9x9 VFT / Sheet Flooring Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 07a Cust. #: LA-HM-04A Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 08 Cust. #: LA-HM-04B Material: Black 9x9 VFT / Sheet Flooring Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99403 - 08a Cust. #: LA-HM-04B Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 09 Cust. #: LA-HM-05A Material: White Layered Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%
Lab ID #: 99403 - 09a Cust. #: LA-HM-05A Material: Brown Floor Tile Location: Appearance: brown,fibrous,homogenous Layer: 2 of 4	Asbestos Present: **YES** Chrysotile - 5%	Other - 95%
Lab ID #: 99403 - 09b Cust. #: LA-HM-05A Material: Glue Location: Appearance: brown,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 09c Cust. #: LA-HM-05A Material: Sheet Flooring Location: Appearance: green,fibrous,nonhomogenous Layer: 4 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99403 - 10 Cust. #: LA-HM-05B Material: White Layered Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%
Lab ID #: 99403 - 10a Cust. #: LA-HM-05B Material: Brown Floor Tile Location: Appearance: Layer: 2 of 4	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 10b Cust. #: LA-HM-05B Material: Glue Location: Appearance: brown,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 10c Cust. #: LA-HM-05B Material: Sheet Flooring Location: Appearance: green,fibrous,nonhomogenous Layer: 4 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99403 - 11 Cust. #: LA-HM-06A Material: Grey Layered Linoleum/Glue Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 11a Cust. #: LA-HM-06A Material: Red Floor Tile Location: Appearance: red,fibrous,homogenous Layer: 2 of 3	Asbestos Present: **YES** Chrysotile - 5%	Other - 95%
Lab ID #: 99403 - 11b Cust. #: LA-HM-06A Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 12 Cust. #: LA-HM-06B Material: Grey Layered Linoleum/Glue Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 12a Cust. #: LA-HM-06B Material: Red Floor Tile Location: Appearance: Layer: 2 of 3	Asbestos Present: NOT ANALYZED	
Lab ID #: 99403 - 12b Cust. #: LA-HM-06B Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 13 Cust. #: LA-HM-07A Material: Cream Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 14 Cust. #: LA-HM-07B Material: Cream Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%
Lab ID #: 99403 - 15 Cust. #: LA-HM-08A Material: White 6" Squared Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%
Lab ID #: 99403 - 16 Cust. #: LA-HM-08B Material: White 6" Squared Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 17 Cust. #: LA-HM-09A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99403 - 17a Cust. #: LA-HM-09A Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 18 Cust. #: LA-HM-09B Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 18a Cust. #: LA-HM-09B Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 19 Cust. #: LA-HM-10A Material: Gold Fleck 9x9 VFT Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 19a Cust. #: LA-HM-10A Material: Glue Location: Appearance: black,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 #: 99403 - 20 Cust. #: LA-HM-10B Material: Gold Fleck 9x9 VFT Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 20a Cust. #: LA-HM-10B Material: Glue Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 21 Cust. #: LA-HM-11A Material: Pink Sheet Flooring Location: Appearance: pink,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 21a Cust. #: LA-HM-11A Material: Beige Linoleum Location: Appearance: white,fibrous,nonhomogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 5% Other - 95%
Lab ID #: 99403 - 21b Cust. #: LA-HM-11A Material: White Sheet Flooring Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99403 - 22 Cust. #: LA-HM-11B Material: Pink Sheet Flooring Location: Appearance: pink,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 22a Cust. #: LA-HM-11B Material: Beige Linoleum Location: Appearance: white,fibrous,nonhomogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 5% Other - 95%
Lab ID #: 99403 - 22b Cust. #: LA-HM-11B Material: White Sheet Flooring Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99403 - 23 Cust. #: LA-HM-12A Material: Front Step Concrete 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 #: 99403 - 24 Cust. #: LA-HM-12B Material: Front Step Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 25 Cust. #: LA-HM-13A Material: North Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 26 Cust. #: LA-HM-13B Material: North Sidewalk Concrete 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 #: 99403 - 27 Cust. #: LA-HM-14A Material: New Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 28 Cust. #: LA-HM-14B Material: New Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 29 Cust. #: LA-HM-15A Material: Old Sidewalk & Retaining Wall Concrete 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 #: 99403 - 30 Cust. #: LA-HM-15B Material: Old Sidewalk & Retaining Wall Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 31 Cust. #: LA-HM-16A Material: Basement Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 32 Cust. #: LA-HM-16B Material: Basement Concrete 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 #: 99403 - 33 Cust. #: LA-HM-17A Material: Cream Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 34 Cust. #: LA-HM-17B Material: Cream Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 35 Cust. #: LA-HM-18A Material: White Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%

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Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 36 Cust. #: LA-HM-18B Material: White Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99403 - 37 Cust. #: LA-HM-19A Material: Grey Basement Window Glazing Location: Appearance: grey,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 38 Cust. #: LA-HM-19B Material: Grey Basement Window Glazing Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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 : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 39 Cust. #: LA-HM-20A Material: Roof Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 99403 - 40 Cust. #: LA-HM-20B Material: Roof Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 99403 - 41 Cust. #: LA-HS-01A Material: White Ceiling Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 42 Cust. #: LA-HS-01B Material: White Ceiling Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 43 Cust. #: LA-HS-01C Material: White Ceiling Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 44 Cust. #: LA-HS-02A Material: Grey Plaster/Wallboard/Texture Location: 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.

Robert T. Letarte Jr., Laboratory Director

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Project : 1735 Lyons Ave.

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

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 44a Cust. #: LA-HS-02A Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 45 Cust. #: LA-HS-02B Material: Grey Plaster/Wallboard/Texture Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 45a Cust. #: LA-HS-02B Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 1735 Lyons Ave.

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P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 46 Cust. #: LA-HS-02C Material: Grey Plaster/Wallboard/Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 46a Cust. #: LA-HS-02C Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 46b Cust. #: LA-HS-02C Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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Robert T. Letarte Jr., Laboratory Director

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Report To:
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P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 47 Cust. #: LA-HS-02D Material: Grey Plaster/Wallboard/Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 47a Cust. #: LA-HS-02D Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 47b Cust. #: LA-HS-02D Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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Robert T. Letarte Jr., Laboratory Director

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Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 48 Cust. #: LA-HS-02E Material: Grey Plaster/Wallboard/Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 48a Cust. #: LA-HS-02E Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 48b Cust. #: LA-HS-02E Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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Robert T. Letarte Jr., Laboratory Director

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Red Cedar Consulting
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Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 49 Cust. #: LA-HS-03A Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 50 Cust. #: LA-HS-03B Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 51 Cust. #: LA-HS-03C Material: Wall Textured Surfacing Location: Appearance: white,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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Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 52 Cust. #: LA-HS-03D Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 53 Cust. #: LA-HS-03E Material: Wall Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99403 - 54 Cust. #: LA-HS-04A Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 54a Cust. #: LA-HS-04A Material: Red Plaster Base Coat Location: Appearance: red,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 54b Cust. #: LA-HS-04A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 25% Other - 75%
Lab ID #: 99403 - 55 Cust. #: LA-HS-04B Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 55a Cust. #: LA-HS-04B Material: Red Plaster Base Coat Location: Appearance: red,nonfibrous,nonhomogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 55b Cust. #: LA-HS-04B Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99403 - 56 Cust. #: LA-HS-04C Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Red Cedar Consulting
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Lansing, MI 48901

ARI Report # 22-99403
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99403 - 56a Cust. #: LA-HS-04C Material: Red Plaster Base Coat Location: Appearance: red,nonfibrous,nonhomogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99403 - 56b Cust. #: LA-HS-04C Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

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Project : 1735 Lyons Ave.

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

ARI Report # 22-99532
Date Collected: 04/30/22
Date Received: 05/03/22
Date Analyzed: 05/03/22
Date Reported: 05/04/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99532 - 01 Cust. #: LA-HM-21A Material: Sink Undercoat Location: Kitchen Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 15%	Other - 85%
Lab ID #: 99532 - 02 Cust. #: LA-HM-21B Material: Sink Undercoat Location: Kitchen Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

Robert T. Letarte Jr., Laboratory Director

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Apex # **99403** Page **1**

1 of 6

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 : 4-20-22
Project : 1735 Lyons Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	LA-HM-01A	Black Roofing			
	01B	" "			
	02A	Vapor Barrier			
	02B	" "			
	03A	White 12" squared Tile			
	03B	" " " "			
	04A	Black 9x9 VFT			
	04B	" " "			
	05A	White Layered Linoleum			
	05B	" " "			
	06A	Gray Layered Linoleum			

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APEX RESEARCH

Relinquished by: [signature] Received by: UPS
Date : 4-21-22 Date : 4-21-22

Relinquished by: _____ Received by: _____
Date : _____ Date : _____

Rev: 12/03
Work Forms: COC

Apex # **99403** Page **2**

2 of 6

APEX Research, Inc.

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E-mail: apexresearch@chartermi.net Fax: 734-449-9991

Client Name: Red Cedar Consulting
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Phone: (888)449-4566 Fax : (888) 448-8739

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Project : 1735 Lyons Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	~~LA~~ HM-06B	Gray Layered Linoleum			
	07A	Cream Linoleum			
	07B	" "			
	08A	White 6" squared Linoleum			
	08B	" " " "			
	09A	Drywall + Joint Compound			
	09B	" " "			
	10A	Gold Fleck 9x9 VFT			
	10B	" " " "			
	11A	Multi Layered Beige Linoleum			
	11B	" " " "			

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APR 22 2022
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Date : 4-21-22 Date : 4-21-22

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Date : _____ Date : _____

Rev: 12/03
Work Forms: COC

Apex # **99403** Page **3**

3 of 4

APEX Research, Inc.

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Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

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Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	LA-HM-12A	Front Step Concrete			
	12B	" " "			
	13A	North Sidewalk Concrete			
	13B	" " "			
	14A	New Sidewalk Concrete			
	14B	" " "			
	15A	Old Sidewalk + Retaining Wall Concrete			
	15B	" " " " "			
	16A	Basement Concrete			
	16B	" "			
	17A	Cream Window Glazing			

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Date : _____ Date : _____

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Work Forms: COC

Apex # **99403** Page **4**

4 of 6

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 : 4-20-22
Project : 1735 Kyone Ave.
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In
Report

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : TTP All Samples

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

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
	LA-HM-17B	Cream Window Glazing			
	LA-HM-18A	White Window Glazing			
	18B	" " "			
	19A	Gray Bsmt Window Glazing			
	19B	" " " "			
	20A	Roof Flashing			
	20B	" "			
	LA-HS-01A	White Ceiling Texture			
	01B	" " "			
	01C	" " "			
	LA-HS-02A	Gray Plaster/Wall Board			

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Date : Date :

Rev: 12/03
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Apex # **99403** Page **5** 5 of 6

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: ~~4-20-22~~ 4-20-22
Project: 1735 Lyons Ave
Project #:
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In
Report

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other: TTP All Samples

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

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
	LA-HS-02B	Gray Plaster/WallBoard			
	02C	" " " "			
	02D	" " " "			
	02E	" " " "			
	LA-HS-03A	Wall Textured Surfacing			
	03B	" " "			
	03C	" " "			
	03D	" " "			
	03E	" " "			
	LA-HS-04A	Red Plaster			
	04B	" "			

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APR 22 2022
APEX RESEARCH

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Relinquished by: Received by: [signature] 1000
Date: Date:

Rev: 12/03
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Apex # **99403** Page **6**

6 of 6

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 : 4-20-22
Project : 1735 Lyons Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	LA-HS-04C	Red Plaster			

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APR 22 2022
APEX RESEARCH

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Date : 4-21-22 Date : 4-21-22

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Date : _____ Date : _____

Rev: 12/03
Work Forms: COC

Apex # **99532**

Pg 1 of 1

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 : 4-30-22
Project : 1735 Lyons Ave.
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

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

Rush (24 hour)
48 hour 72 hour
Other : _____ (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
	LA-1tm-21A	LT Bank Undercoat			
	↓ 21B	" "			

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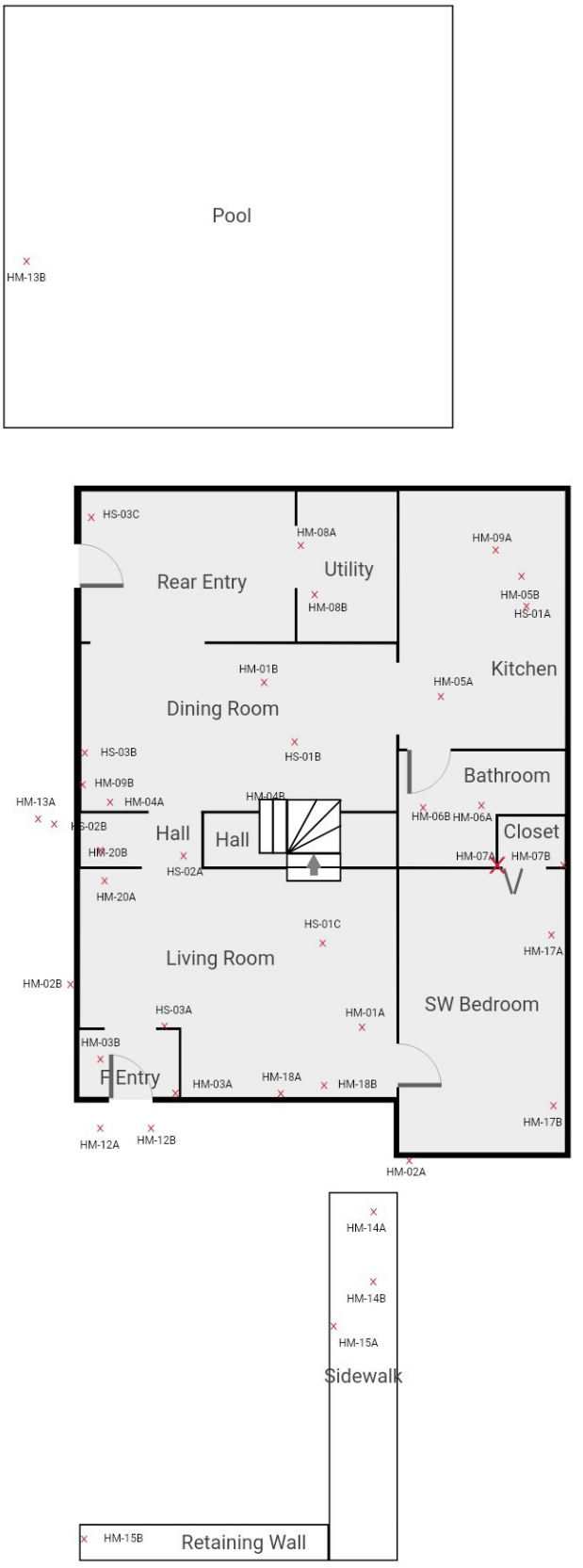
Date : _____ Date : 930

Rev: 12/03
Work Forms: COC

Attachment B

Site Diagrams

Figure 1a Site Diagram

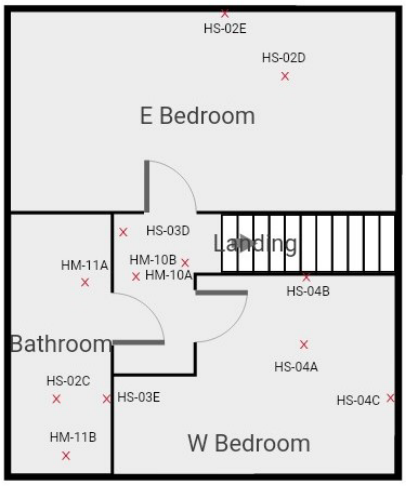


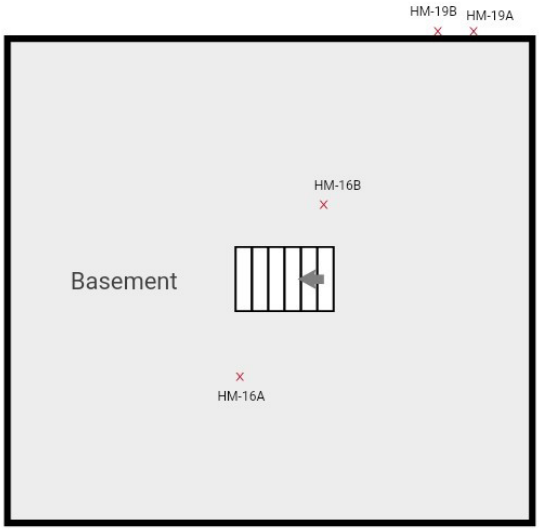
Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
1735 Lyon's Ave.
Lansing, MI

Figure 1b Site Diagram





Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
1735 Lyon's Ave.
Lansing, MI

Attachment C

ACM Photos

PHOTO: 1 **BY: A. Paquet**
SUBJECT: View of front of the Property.

PHOTO: 2 **BY: A. Paquet**
SUBJECT: Kitchen Brown 9x9 Tile beneath Raised Floor System

PHOTO: 3 **BY: A. Paquet**
SUBJECT: Bathroom Brown 9x9 Tile beneath Raised Floor System

PHOTO: 4 **BY: A. Paquet**
SUBJECT: HVAC Duct Wrap on Covered Register in Basement

PHOTO: 5 **BY: A. Paquet**
SUBJECT: Kitchen Sink with Asbestos Sink Undercoat

PHOTO: 6 **BY: A. Paquet**
SUBJECT:

Attachment D

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

Tables

Table 1 - Summary of Hazardous Materials, 1735 Lyons Ave., Lansing, Michigan

Hazardous Materials Description and Location		
Location	**Material Description**	**Quantity**
Hall	Smoke Detector	1
2nd Fl. Hall	Smoke Detector	1

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1735 Lyons Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
LA-HM-01A	Black Roofing	No	M	Category I	ND/ND	Exterior	3,450 sq. ft.
LA-HM-01B	Black Roofing	No	M	Category I	ND/ND	Exterior	NA
LA-HM-02A	Vapor Barrier	Yes	M	Category II	ND	Exterior	2,900 sq. ft.
LA-HM-02B	Vapor Barrier	Yes	M	Category II	ND	Exterior	NA
LA-HM-03A	White 12” squared Lin.	No	M	Category I	ND	Front Entry	24 sq. ft.
LA-HM-03B	White 12” squared Lin.	No	M	Category I	ND	Front Entry	NA
LA-HM-04A	Black 9x9 VFT	No	M	Category I	ND/ND	Dining	190 sq. ft.
LA-HM-04B	Black 9x9 VFT	No	M	Category I	ND/ND	Dining	NA
LA-HM-05A	White Layered Linoleum	No	M	Category I	ND/5% CH/ND/ND	Kitchen	140 sq. ft.
LA-HM-05B	White Layered Linoleum	No	M	Category I	ND/NA/ND/ND	Kitchen	NA
LA-HM-06A	Gray Layered Linoleum	No	M	Category I	ND/5% CH/ND	Bath	70 sq. ft.
LA-HM-06B	Gray Layered Linoleum	No	M	Category I	ND/NA/ND	Bath	NA
LA-HM-07A	Cream Linoleum	No	M	Category I	ND	Closet	12 sq. ft.
LA-HM-07B	Cream Linoleum	No	M	Category I	ND	Closet	NA
LA-HM-08A	White 6” squared Linoleum	No	M	Category I	ND	Laundry	55 sq. ft.
LA-HM-08B	White 6” squared Linoleum	No	M	Category I	ND	Laundry	NA
LA-HM-09A	Drywall & Joint Compound	No	M	Category II	ND/ND	Kitchen Ceiling	2,600 sq. ft.
LA-HM-09B	Drywall & Joint Compound	No	M	Category II	ND/ND	Dining Wall	NA
LA-HM-10A	Gold Fleck 9x9 VFT	No	M	Category I	ND/ND	2nd Fl. Landing	32 sq. ft.
LA-HM-10B	Gold Fleck 9x9 VFT	No	M	Category I	ND/ND	2nd Fl. Landing	NA
LA-HM-11A	Multi Layered Beige Linoleum	No	M	Category I	ND/ND/ND	2nd Fl. Bath	75 sq. ft.
LA-HM-11B	Multi Layered Beige Linoleum	No	M	Category I	ND/ND/ND	2nd Fl. Bath	NA
LA-HM-12A	Front Step Concrete	No	M	Category II	ND	Exterior	25 sq. ft.
LA-HM-12B	Front Step Concrete	No	M	Category II	ND	Exterior	NA
LA-HM-13A	North Sidewalk Concrete	No	M	Category II	ND	Exterior	800 sq. ft.
LA-HM-13B	North Sidewalk Concrete	No	M	Category II	ND	Exterior	NA
LA-HM-14A	New Sidewalk Concrete	No	M	Category II	ND	Exterior	100 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1735 Lyons Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
LA-HM-14B	New Sidewalk Concrete	No	M	Category II	ND	Exterior	NA
LA-HM-15A	Old Sidewalk and Retaining Wall Concrete	No	M	Category II	ND	Exterior	450 sq. ft.
LA-HM-15B	Old Sidewalk and Retaining Wall Concrete	No	M	Category II	ND	Exterior	NA
LA-HM-16A	Basement Concrete	No	M	Category II	ND	Basement	750 sq. ft.
LA-HM-16B	Basement Concrete	No	M	Category II	ND	Basement	NA
LA-HM-17A	Cream Window Glazing	Yes	M	Category II	ND	SW Bedroom	2 Windows
LA-HM-17B	Cream Window Glazing	Yes	M	Category II	ND	SW Bedroom	NA
LA-HM-18A	White Window Glazing	Yes	M	Category II	ND	Living	1 Window
LA-HM-18B	White Window Glazing	Yes	M	Category II	ND	Living	NA
LA-HM-19A	Gray Bsmt. Window Glazing	Yes	M	Category II	ND	Basement	1 Window
LA-HM-19B	Gray Bsmt. Window Glazing	Yes	M	Category II	ND	Basement	NA
LA-HM-20A	Roof Flashing	No	M	Category II	ND	Exterior	25 sq. ft.
LA-HM-20B	Roof Flashing	No	M	Category II	ND	Exterior	NA
LA-HM-21A	KT Sink Undercoat	No	M	Category II	15% CH	Kitchen	1 Sink
LA-HM-21B	KT Sink Undercoat	No	M	Category II	NA	Kitchen	NA
LA-HS-01A	White Ceiling Texture	No	S	Category II	ND	Kitchen Ceiling	525 sq. ft.
LA-HS-01B	White Ceiling Texture	No	S	Category II	ND	Dining Ceiling	NA
LA-HS-01C	White Ceiling Texture	No	S	Category II	ND	Living Ceiling	NA
LA-HS-02A	Gray Plaster/Wallboard	No	S	Category II	ND/ND	Living Ceiling	2,750 sq. ft.
LA-HS-02B	Gray Plaster/Wallboard	No	S	Category II	ND/ND	Closet Wall	NA
LA-HS-02C	Gray Plaster/Wallboard	No	S	Category II	ND/ND/ND	2nd Fl. Bath Ceiling	NA
LA-HS-02D	Gray Plaster/Wallboard	No	S	Category II	ND/ND/ND	2nd Fl. E Bedroom Wall	NA
LA-HS-02E	Gray Plaster/Wallboard	No	S	Category II	ND/ND/ND	2nd Fl. E Bedroom Ceiling	NA
LA-HS-03A	Wall Textured Surfacing	No	S	Category II	ND	Living Wall	2,250 sq. ft.
LA-HS-03B	Wall Textured Surfacing	No	S	Category II	ND	Dining Wall	NA
LA-HS-03C	Wall Textured Surfacing	No	S	Category II	ND	Rear Entry Wall	NA

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1735 Lyons Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
LA-HS-03D	Wall Textured Surfacing	No	S	Category II	ND	2nd Fl. Hall Wall	NA
LA-HS-03E	Wall Textured Surfacing	No	S	Category II	ND	2nd Fl. Bath Wall	NA
LA-HS-04A	Red Plaster	No	S	Category II	ND/ND/ND	2nd Fl. W Bedroom Ceiling	550 sq. ft.
LA-HS-04B	Red Plaster	No	S	Category II	ND/ND/ND	2nd Fl. W Bedroom Wall	NA
LA-HS-04C	Red Plaster	No	S	Category II	ND/ND/ND	2nd Fl. W Bedroom Wall	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, 1735 Lyons Ave., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	**Material Description**	**Friable**	**Condition**	**Material Type**	**Approx. Quantity**
Basement (1 covered floor register, 5 sq. ft.)	HVAC Duct Wrap	Yes	Fair	TSI	5 sq. ft.

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 Asbestos Containing Materials, 1735 Lyons Ave., Lansing, Michigan

Interior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
Kitchen	White Layered Linoleum (Brown Tile beneath raised floor system)	No	140 sq. ft.
Bath	Gray Layered Linoleum (Brown Tile beneath raised floor system)	No	70 sq. ft.
	Total		**210 sq. ft.**
Interior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
Basement (1 covered floor register, 5 sq. ft.)	HVAC Duct Wrap	Yes	5 sq. ft.
	Total		**5 sq. ft.**
Exterior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
Kitchen	Sink Undercoat	No	1 Sink
	Total		**1 Sink**

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.

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.

RED CEDAR CONSULTING

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

May 2, 2022

Mr. Michael Andrick
Ingham County Land Bank
3024 Turner St.
Lansing, MI 48906

RE: Asbestos Containing Material and Hazardous Materials Inspection
1318 Mary Ave., Lansing, MI 48910
Parcel ID: 33-01-01-32-251-131

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 1318 Mary Ave., Lansing, 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 .46- acre residential parcel which contains an approximate 791 square foot residential building (the Building) constructed in 1938. The Building was constructed on a concrete slab with one aboveground floor. The exterior walls of the Building were finished with concrete block while the roof was sealed with asphalt roofing. The Building can be further divided into a living room, kitchen, bath, two bedrooms and a rear entry.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 22, 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:

- Rolled Roofing
- 12x12 Vinyl Floor Tile
- 1x1 Ceiling Tile
- Drywall & Joint Compound
- Black Mastic
- Concrete
- Glazing
- Flashing
- Stucco
- Textured Surfacing
- Stipple Texture
- Plaster

Red Cedar staff collected thirty-six samples of suspect ACBM separated into sixteen 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 thirty-six samples is included as Attachment A.

Hazardous Materials Inspection

On April 22, 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, thirty-six 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. Photos of each different type of ACM identified during this inspection are included in Attachment C and copies of the Asbestos Inspectors certifications are included as Attachment D.

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

A window glazing sample collected from a window in the Building was found to contain up to 1.5% asbestos following analysis. The assessment to quantify the extent of this material identified windows at the following locations that would fall into the same homogenous group. The locations of the windows are listed below:

- House (5 windows 30" wide x 20" tall)
- House (1 window 36" wide x 36" tall)

Category I ACM

No Category I ACM was identified during the completion of this inspection.

Category II ACM

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

RECOMMENDATIONS

Asbestos Containing Materials

Friable asbestos containing window glazing was identified on windows throughout the Building. The locations of these windows that should be abated prior to demolition/renovation activities are listed below:

- House (5 windows 30" wide x 20" tall)
- House (1 window 36" wide x 36" tall)

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:

- Automobile Tire (5)

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

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, Exp. 10-12-2022)

Attachment A

APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1318 Mary Ave.

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

ARI Report # 22-99448
Date Collected: 04/22/22
Date Received: 04/22/22
Date Analyzed: 04/28/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 01 Cust. #: MA-HM-01A Material: Rolled Roofing/Tar/Felt Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Synthetic - 20% Other - 70%
Lab ID #: 99448 - 02 Cust. #: MA-HM-01B Material: Rolled Roofing/Tar/Felt Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Synthetic - 20% Other - 70%
Lab ID #: 99448 - 03 Cust. #: MA-HM-02A Material: 12x24 Marble VFT Location: 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.

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.

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Date Analyzed: 04/28/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 03a Cust. #: MA-HM-02A Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99448 - 04 Cust. #: MA-HM-02B Material: 12x24 Marble VFT Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 04a Cust. #: MA-HM-02B Material: Glue Location: 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 #: 99448 - 05 Cust. #: MA-HM-03A Material: 1x1 Gloss White CT Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 99448 - 06 Cust. #: MA-HM-03B Material: 1x1 Gloss White CT Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 99448 - 07 Cust. #: MA-HM-04A Material: 1x1 White Textured CT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 08 Cust. #: MA-HM-04B Material: 1x1 White Textured CT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 99448 - 09 Cust. #: MA-HM-05A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99448 - 09a Cust. #: MA-HM-05A Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 10 Cust. #: MA-HM-05B Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99448 - 10a Cust. #: MA-HM-05B Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 11 Cust. #: MA-HM-06A Material: Black Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 12 Cust. #: MA-HM-06B Material: Black Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 13 Cust. #: MA-HM-07A Material: Rear Entry Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 14 Cust. #: MA-HM-07B Material: Rear Entry Concrete 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 #: 99448 - 15 Cust. #: MA-HM-08A Material: House Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 16 Cust. #: MA-HM-08B Material: House Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 17 Cust. #: MA-HM-09A Material: Window Glazing Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 1.5% POINT COUNT RESULT	Other - 98.5%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 18 Cust. #: MA-HM-09B Material: Window Glazing Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 99448 - 19 Cust. #: MA-HM-10A Material: Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 99448 - 20 Cust. #: MA-HM-10B Material: Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Other - 90%

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Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 21 Cust. #: MA-HM-11A Material: Garage Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 22 Cust. #: MA-HM-11B Material: Garage Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 23 Cust. #: MA-HM-12A Material: Rear Entry Pad Concrete 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 #: 99448 - 24 Cust. #: MA-HM-12B Material: Rear Entry Pad Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 25 Cust. #: MA-HS-01A Material: Stucco Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 26 Cust. #: MA-HS-01B Material: Stucco 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 #: 99448 - 27 Cust. #: MA-HS-01C Material: Stucco Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 28 Cust. #: MA-HS-02A Material: Texture Surfacing Location: Living Room Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 5% Other - 95%
Lab ID #: 99448 - 29 Cust. #: MA-HS-02B Material: Texture Surfacing Location: Living Room Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 5% Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 30 Cust. #: MA-HS-02C Material: Texture Surfacing Location: Living Room Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 5% Other - 95%
Lab ID #: 99448 - 31 Cust. #: MA-HS-03A Material: Stippled Texture Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99448 - 32 Cust. #: MA-HS-03B Material: Stippled Texture Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 33 Cust. #: MA-HS-03C Material: Stippled Texture Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99448 - 34 Cust. #: MA-HS-04A Material: Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 34a Cust. #: MA-HS-04A Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 35 Cust. #: MA-HS-04B Material: Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99448 - 35a Cust. #: MA-HS-04B Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99448 - 36 Cust. #: MA-HS-04C Material: Plaster Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Test Method, Polarized Light Microscopy (PLM)

Project : 1318 Mary Ave.

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

ARI Report # 22-99448
Date Collected: 04/22/22
Date Received: 04/22/22
Date Analyzed: 04/28/22
Date Reported: 04/28/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99448 - 36a Cust. #: MA-HS-04C Material: Plaster Base Coat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

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.

Apex # **99448** Page **1** 1 of 4

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 : 4-22-22
Project : 1318 Mary Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In
Report

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : TTP All Samples

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

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
	MA-HM-01A	Rolled Roofing			
	01B	" "			
	02A	12x24 Marble VFT			
	02B	" " "			
	03A	1x1 Gloss White CT			
	03B	" " " "			
	04A	1x1 white textured CT			
	04B	" " " "			
	05A	Drywall + Joint Compound			
	05B	" " "			
	06A	Black Mastic			

RECEIVED
APR 25 2022
APEX RESEARCH

Relinquished by: AJ Del Monteros Received by: UPS
Date : 4-22-22 Date : 4-22-22

Relinquished by: Received by:
Date : Date :

Rev: 12/03

Apex # **99448** Page **2** 2 of 4

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 : 4-22-22
Project : 1318 Mary Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	MA-HM-06B	Black Mastic			
	07A	Rear Entry Concrete			
	07B	" " "			
	08A	House floor concrete			
	08B	" " "			
	09A	Window Glazing			
	09B	" "			
	10A	Flashing			
	10B	" "			
	11A	Garage floor Concrete			
	11B	" " "			

RECEIVED
APR 25 2022
APEX RESEARCH

Relinquished by: Alex Masters Received by: UPS
Date : 4-22-22 Date : 4-22-22

Relinquished by: _____ Received by: _____
Date : _____ Date : _____

Rev: 12/03

Apex # **99448** Page **3** 3 of 4

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 : 4-22-22
Project : 1318 Mary Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	MA-HM-12A	Rear Entry Pad Concrete			
	" " 12B	" " " "			
	MA-HS-01A	Stucco			
	01B	"			
	01C	"			
	MA-HS-02A	Living Room Texture Surfacing			
	02B	" " " "			
	02C	" " " "			
	MA-HS-03A	Stippled texture Surfacing			
	03B	" " "			
	03C	" " "			

RECEIVED
APR 25 2022
APEX RESEARCH

Relinquished by: D.L. DeMeester Received by: UPS
Date : 4-22-22 Date : 4-22-22

Relinquished by: _____ Received by: _____
Date : _____ Date : _____

Rev: 12/03

Apex # **99448** Page **4** 4 of 4

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 : 4-22-22
Project : 1318 Mary Ave
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

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

Rush 24 hour
48 hour (72 hour)
Other : _____ (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
	MA-H5-04A	Plaster			
	04B	"			
	04C	"			

RECEIVED
APR 26 2022
APEX RESEARCH

Relinquished by: [signature] Received by: UPS
Date : 4-22-22 Date : 4-22-22

Relinquished by: _____ Received by: _____
Date : _____ Date : _____

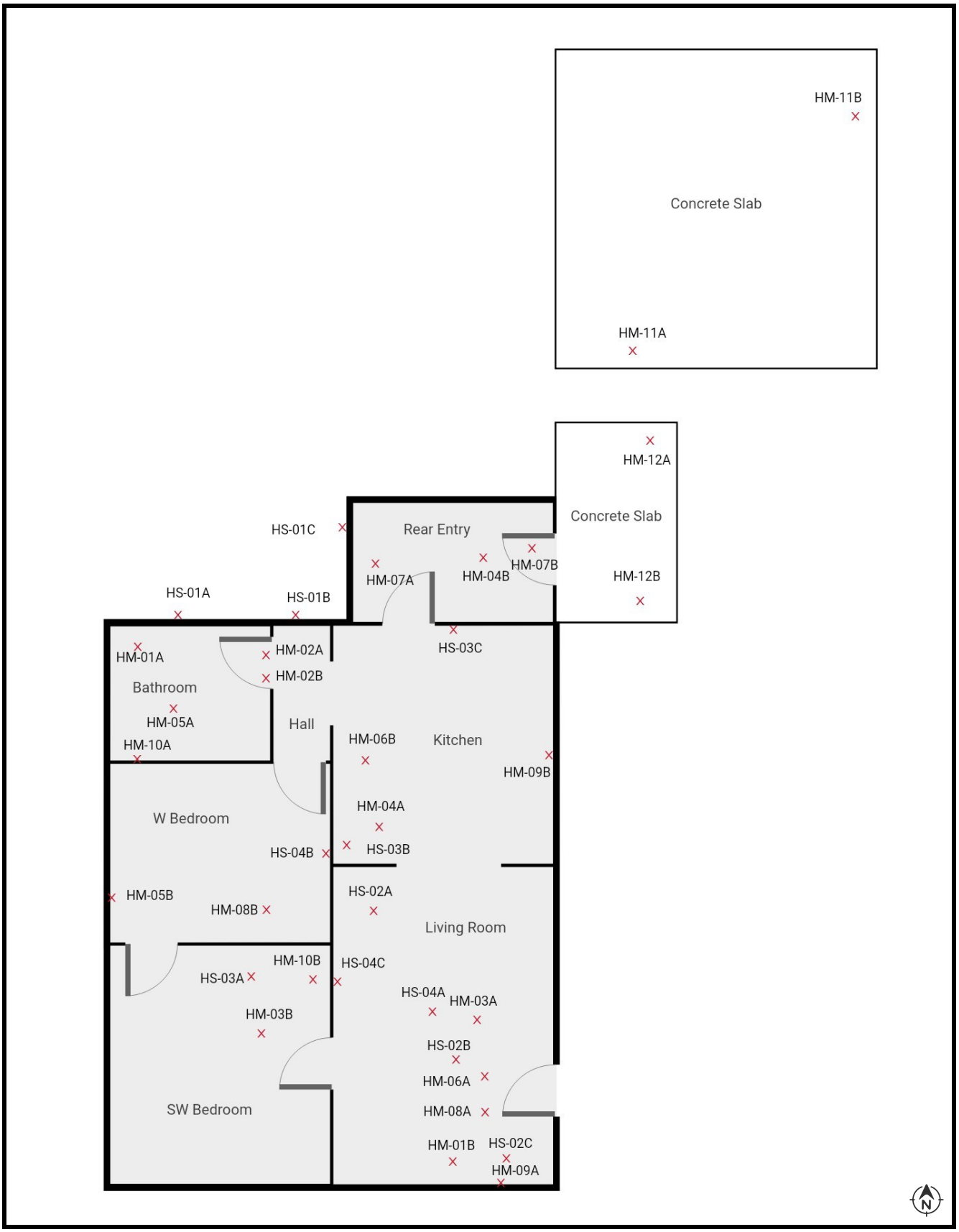
Rev: 12/03

Attachment B

Site Diagrams

Red Cedar Consulting

Figure 1 Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
1318 Mary Ave.
Lansing, MI

Attachment C

ACM Photos

PHOTO: 1 **BY: A. Paquet**
SUBJECT: View of front of the Property.

PHOTO: 2 **BY: A. Paquet**
SUBJECT: View of Typical Window with Glazing

Attachment D

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

Tables

Table 1 - Summary of Hazardous Materials, 1318 Mary Ave., Lansing, Michigan

Hazardous Materials Description and Location		
Location	**Material Description**	**Quantity**
Living Room	Automobile Tire	6

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1318 Mary Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MA-HM-01A	Rolled Roofing	No	M	Category I	ND	Exterior	750 sq. ft.
MA-HM-01B	Rolled Roofing	No	M	Category I	ND	Exterior	NA
MA-HM-02A	12x24 Marble VFT	No	M	Category I	ND/ND	Bathroom	45 sq. ft.
MA-HM-02B	12x24 Marble VFT	No	M	Category I	ND/ND	Bathroom	NA
MA-HM-03A	1x1 Gloss White CT	Yes	M	Category II	ND	Living	250 sq. ft.
MA-HM-03B	1x1 Gloss White CT	Yes	M	Category II	ND	SW Bedroom	NA
MA-HM-04A	1x1 White Textured CT	Yes	M	Category II	ND	Kitchen	150 sq. ft.
MA-HM-04B	1x1 White Textured CT	Yes	M	Category II	ND	Rear Entry	NA
MA-HM-05A	Drywall & Joint Compound	No	M	Category II	ND/ND	Bath Ceiling	1,850 sq. ft.
MA-HM-05B	Drywall & Joint Compound	No	M	Category II	ND/ND	W Bedroom Wall	NA
MA-HM-06A	Black Mastic	No	M	Category I	ND	Living	675 sq. ft.
MA-HM-06B	Black Mastic	No	M	Category I	ND	Kitchen	NA
MA-HM-07A	Rear Entry Concrete	No	M	Category II	ND	Exterior	75 sq. ft.
MA-HM-07B	Rear Entry Concrete	No	M	Category II	ND	Exterior	NA
MA-HM-08A	House Floor Concrete	No	M	Category II	ND	Living	675 sq. ft.
MA-HM-08B	House Floor Concrete	No	M	Category II	ND	W Bedroom	NA
MA-HM-09A	Window Glazing	Yes	M	Category II	1.5% CH	Living	6 Windows
MA-HM-09B	Window Glazing	Yes	M	Category II	NA	Kitchen	NA
MA-HM-10A	Flashing	No	M	Category II	ND	Exterior	10 sq. ft.
MA-HM-10B	Flashing	No	M	Category II	ND	Exterior	NA
MA-HM-11A	Garage Floor Concrete	No	M	Category II	ND	Exterior	500 sq. ft.
MA-HM-11B	Garage Floor Concrete	No	M	Category II	ND	Exterior	NA
MA-HM-12A	Rear Entry Pad Concrete	No	M	Category II	ND	Exterior	100 sq. ft.
MA-HM-12B	Rear Entry Pad Concrete	No	M	Category II	ND	Exterior	NA
MA-HS-01A	Stucco	No	S	Category II	ND	Exterior	950 sq. ft.
MA-HS-01B	Stucco	No	S	Category II	ND	Exterior	NA
MA-HS-01C	Stucco	No	S	Category II	ND	Exterior	NA
MA-HS-02A	Living Room Texture Surf.	No	S	Category II	ND	Living Ceiling	135 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1318 Mary Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MA-HS-02B	Living Room Texture Surf.	No	S	Category II	ND	Living Ceiling	NA
MA-HS-02C	Living Room Texture Surf.	No	S	Category II	ND	Living Ceiling	NA
MA-HS-03A	Stippled Texture Surfacing	No	S	Category II	ND	SW Bedroom Ceiling	500 sq. ft.
MA-HS-03B	Stippled Texture Surfacing	No	S	Category II	ND	Kitchen Wall	NA
MA-HS-03C	Stippled Texture Surfacing	No	S	Category II	ND	Kitchen Wall	NA
MA-HS-04A	Plaster	No	S	Category II	ND/ND	Living Ceiling	450 sq. ft.
MA-HS-04B	Plaster	No	S	Category II	ND/ND	W Bedroom Wall	NA
MA-HS-04C	Plaster	No	S	Category II	ND/ND	Living Wall	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, 1318 Mary Ave., Lansing, 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 Asbestos Containing Materials, 1318 Mary Ave., Lansing, Michigan

Interior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
House (5 windows 30” wide x 20” tall)	Glazing	Yes	5 Windows
House (1 window 36” wide x 36” tall)	Glazing	Yes	1 Window
	Total		**6 Windows**

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.

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.

RED CEDAR CONSULTING

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

May 13, 2022

Mr. Michael Andrick
Ingham County Land Bank
3024 Turner St.
Lansing, MI 48906

RE: Asbestos Containing Material and Hazardous Materials Inspection
1522 W Holmes Rd., Lansing, MI 48910
Parcel ID: 33-01-01-29-376-151

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 1522 W Holmes Rd., Lansing, 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 .15-acre residential parcel which contains a 378 sq. ft. detached garage and approximate 1,509 square foot residential building (the Building) constructed in 1956. The Building was constructed on a concrete crawlspace with one aboveground floor. The exterior walls of the Building were finished with vinyl siding while the roof was sealed with asphalt shingles. The Building can be further divided into a living room, dining room, kitchen, two bathrooms, a rear entry, utility room and four bedrooms.

VISUAL INSPECTION AND SAMPLING

Asbestos Containing Materials Inspection

Aaron Paquet of Red Cedar Consulting (Red Cedar), accredited State Of Michigan/EPA Asbestos Building Inspector (Accreditation Number A30955) who completed training per the Michigan Asbestos Workers Accreditation Act 440, completed an inspection of the Subject Property on April 20, 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:

- Asphalt Shingle
- Vapor Barrier
- Linoleum
- 9x9 Vinyl Floor Tile
- 1x1 Ceiling Tile
- Drywall & Joint Compound
- Trim Caulk
- Cove Base
- Concrete
- Glazing
- Flashing
- Layered Asphalt Roofing
- Sink Undercoat
- Plaster
- Texture

Red Cedar staff collected forty-four samples of suspect ACBM separated into twenty-one 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 forty-four samples is included as Attachment A.

Hazardous Materials Inspection

On April 20, 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, forty-four 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. Photos of each different type of ACM identified during this inspection are included in Attachment C and copies of the Asbestos Inspectors certifications are included as Attachment D.

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

No friable ACM's were identified during the completion of this inspection.

Category I ACM

Two types of resilient floor covering (Layered White Vinyl/Black Diamond (bottom layer is asbestos) and 9x9 Tan w/brown streak VFT) located within the kitchen and bathroom were found to contain up to 10% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 185 sq. ft. of this material within the Building.

Asphalt roof samples and flashing collected during the completion of the inspection were found to contain up to 10% Chrysotile asbestos. The assessment to quantify the extent of this material identified 465 sq. ft. of asphalt roofing materials and flashings on the Building.

Category II ACM

Drywall Compound samples, collected from the Building were found to contain up to 1.5% asbestos following analysis. The assessment to quantify the extent of this material identified approximately 2,870 sq. ft. of drywall compound within the Building.

RECOMMENDATIONS

Asbestos Containing Materials

Drywall Compound identified on the interior of the Building must be abated prior to completion of any renovation/demolition activities at the Subject Property. Any 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 must be properly abated.

The Category I roofing materials and resilient floor coverings (Layered White Vinyl/Black Diamond (bottom layer is asbestos) and 9x9 Tan w/brown streak VFT) are non-friable ACM's that may be left in place as long as the demolition/renovation activities are completed following the OSHA Asbestos Standards for Construction (29 CFR 1926.1101) which limits employee exposure to asbestos.

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:

- Smoke Detector (1)

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

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, Exp. 10-12-2022)

Attachment A

APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 01 Cust. #: HR-HM-01A Material: Black Shingle Location: House Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 99401 - 01a Cust. #: HR-HM-01A Material: Felt Location: House Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99401 - 02 Cust. #: HR-HM-01B Material: Black Shingle Location: House Appearance: black,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%

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 : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 02a Cust. #: HR-HM-01B Material: Felt Location: House Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99401 - 03 Cust. #: HR-HM-02A Material: Vapor Barrier Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 99401 - 04 Cust. #: HR-HM-02B Material: Vapor Barrier Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 05 Cust. #: HR-HM-03A Material: Grey/Blue/White Vinyl/Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%
Lab ID #: 99401 - 06 Cust. #: HR-HM-03B Material: Grey/Blue/White Vinyl/Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%
Lab ID #: 99401 - 07 Cust. #: HR-HM-04A Material: White Vinyl w/ Black/Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 07a Cust. #: HR-HM-04A Material: Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 07b Cust. #: HR-HM-04A Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 07c Cust. #: HR-HM-04A Material: Linoleum Location: Appearance: white,fibrous,nonhomogenous Layer: 4 of 4	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 08 Cust. #: HR-HM-04B Material: White Vinyl w/ Black/Linoleum/Glue Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Fiberglass - 5% Other - 90%
Lab ID #: 99401 - 08a Cust. #: HR-HM-04B Material: Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 08b Cust. #: HR-HM-04B Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 08c Cust. #: HR-HM-04B Material: Linoleum Location: Appearance: Layer: 4 of 4	Asbestos Present: NOT ANALYZED	
Lab ID #: 99401 - 09 Cust. #: HR-HM-05A Material: 9x9 Tan w/ Brown Streak VFT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%
Lab ID #: 99401 - 09a Cust. #: HR-HM-05A Material: Mastic Location: Appearance: black,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 #: 99401 - 10 Cust. #: HR-HM-05B Material: 9x9 Tan w/ Brown Streak VFT Location: Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 99401 - 10a Cust. #: HR-HM-05B Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 11 Cust. #: HR-HM-06A Material: 1x1 White CT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 12 Cust. #: HR-HM-06B Material: 1x1 White CT Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 99401 - 13 Cust. #: HR-HM-07A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99401 - 13a Cust. #: HR-HM-07A Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 14 Cust. #: HR-HM-07B Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99401 - 14a Cust. #: HR-HM-07B Material: Joint Compound Location: Appearance: beige,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **YES** Chrysotile - 1.50% POINT COUNT RESULT	Other - 98.50%
Lab ID #: 99401 - 15 Cust. #: HR-HM-08A Material: Tan Linoleum Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 15% Fiberglass - 5% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 16 Cust. #: HR-HM-08B Material: Tan Linoleum Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 10% Fiberglass - 5% Other - 85%
Lab ID #: 99401 - 17 Cust. #: HR-HM-09A Material: Trim Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 18 Cust. #: HR-HM-09B Material: Trim Caulk Location: Appearance: white,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 #: 99401 - 19 Cust. #: HR-HM-10A Material: Black Cove Base Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 19a Cust. #: HR-HM-10A Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 20 Cust. #: HR-HM-10B Material: Black Cove Base Location: Appearance: black,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 #: 99401 - 20a Cust. #: HR-HM-10B Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 21 Cust. #: HR-HM-11A Material: Driveway/Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 22 Cust. #: HR-HM-11B Material: Driveway/Sidewalk Concrete 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 #: 99401 - 23 Cust. #: HR-HM-12A Material: Front/Rear Steps Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 24 Cust. #: HR-HM-12B Material: Front/Rear Steps Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 25 Cust. #: HR-HM-13A Material: Black Shingle Roof Location: Garage Appearance: black,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 25a Cust. #: HR-HM-13A Material: Brown Shingle Location: Garage Appearance: black,fibrous,nonhomogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 99401 - 25b Cust. #: HR-HM-13A Material: Red Shingle Location: Garage Appearance: black,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99401 - 26 Cust. #: HR-HM-13B Material: Black Shingle Roof Location: Garage Appearance: black,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 26a Cust. #: HR-HM-13B Material: Brown Shingle Location: Garage Appearance: black,fibrous,nonhomogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 30% Other - 70%
Lab ID #: 99401 - 26b Cust. #: HR-HM-13B Material: Red Shingle Location: Garage Appearance: black,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99401 - 27 Cust. #: HR-HM-14A Material: Garage Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 28 Cust. #: HR-HM-14B Material: Garage Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 1% Other - 99%
Lab ID #: 99401 - 29 Cust. #: HR-HM-15A Material: Garage Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 99401 - 30 Cust. #: HR-HM-15B Material: Garage Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 31 Cust. #: HR-HM-16A Material: Garage Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99401 - 32 Cust. #: HR-HM-16B Material: Garage Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99401 - 33 Cust. #: HR-HM-17A Material: Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%

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 : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 34 Cust. #: HR-HM-17B Material: Flashing Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 99401 - 35 Cust. #: HR-HM-18A Material: Rear Addition Layered Roof Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Synthetic - 20% Other - 80%
Lab ID #: 99401 - 35a Cust. #: HR-HM-18A Material: Tar/Felt Location: Appearance: black,fibrous,nonhomogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 40% Other - 80%

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

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.

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Project : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 35b Cust. #: HR-HM-18A Material: Red Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99401 - 35c Cust. #: HR-HM-18A Material: Flashing Location: Appearance: black,fibrous,homogenous Layer: 4 of 4	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%
Lab ID #: 99401 - 36 Cust. #: HR-HM-18B Material: Rear Addition Layered Roof Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 4	Asbestos Present: **NO** No Asbestos Observed	Synthetic - 20% Other - 80%

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

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.

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Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 36a Cust. #: HR-HM-18B Material: Tar/Felt Location: Appearance: black,fibrous,nonhomogenous Layer: 2 of 4	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 40% Other - 60%
Lab ID #: 99401 - 36b Cust. #: HR-HM-18B Material: Red Shingle Location: Appearance: black,fibrous,nonhomogenous Layer: 3 of 4	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 40% Other - 60%
Lab ID #: 99401 - 36c Cust. #: HR-HM-18B Material: Flashing Location: Appearance: Layer: 4 of 4	Asbestos Present: NOT ANALYZED	

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 37 Cust. #: HR-HS-01A Material: Plaster Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Vermiculite - 10% Other - 89%
Lab ID #: 99401 - 37a Cust. #: HR-HS-01A Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99401 - 38 Cust. #: HR-HS-01B Material: Plaster Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Vermiculite - 10% Other - 89%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmer Rd.

Report To:
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Red Cedar Consulting
P.O. Box 13216
Lansing, MI 48901

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 38a Cust. #: HR-HS-01B Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99401 - 39 Cust. #: HR-HS-01C Material: Plaster Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Vermiculite - 10% Other - 89%
Lab ID #: 99401 - 39a Cust. #: HR-HS-01C Material: Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmer Rd.

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

ARI Report # 22-99401
Date Collected: 04/20/22
Date Received: 04/22/22
Date Analyzed: 04/26/22
Date Reported: 04/27/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99401 - 40 Cust. #: HR-HS-02A Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99401 - 41 Cust. #: HR-HS-02B Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 99401 - 42 Cust. #: HR-HS-02C Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%

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

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.

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 1522 W. Holmes Rd.

Project #:

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

ARI Report # 22-99534
Date Collected: 04/30/22
Date Received: 05/03/22
Date Analyzed: 05/03/22
Date Reported: 05/04/22

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 99534 - 01 Cust. #: HR-HM-19A Material: Sink Undercoat Location: Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 99534 - 02 Cust. #: HR-HM-19B Material: Sink Undercoat Location: Kitchen Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

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.

Apex # **99401** Page **1** 1 of 4

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 : 4-20-22
Project : 1522 W. Holmes Rd
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

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

Rush 24 hour
48 hour (72 hour)
Other : _____ (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
	HR-HM-01A	(House) Black Shingle			
	01B	" " "			
	02A	Vapor Barrier			
	02B	" "			
	03A	Gray, Blue + White Vinyl			
	03B	" " " "			
	04A	Layer/White Vinyl w/black diamond			
	04B	" " " " "			
	05A	9x9 tan w/brown stch VFT			
	05B	" " " " " "			
	06A	1x1 White CT			

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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 : 4-20-22
Project : 1522 W. Holmes Rd
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In
Report

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : TTP All Samples

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

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
	HR-HM-06B	1x1 White C.T.			
	07A	Drywall + Joint Compound			
	07B	" " "			
	08A	Tan Linoleum			
	08B	" "			
	09A	Trim Caulk			
	09B	" "			
	10A	Black Cove Base			
	10B	" " "			
	11A	Driveway + Sidewalk Concrete			
	11B	" " " "			

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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 : 4-20-22
Project : 1522 Holmes Rd
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

Rush 24 hour
48 hour (72 hour)
Other : _____ (TTP) All Samples

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

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
	HR-HM-12A	Front + Rear Steps Concrete			
	12B	" " " "			
	13A	Black Shingle Roof (Garage)			
	13B	" " " "			
	14A	Garage Window Glazing			
	14B	" " "			
	15A	Garage floor Concrete			
	15B	" " "			
	16A	Garage Drywall			
	16B	" "			
	17A	Flashing			

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Log-In ____
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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 : 4-20-22
Project : 1522 Holmes Rd
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Turn Around Times: (Circle One)

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

Rush 24 hour
48 hour (72 hour)
Other : _____ (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
	HR-HM-17B	Flashing			
	18A	Rear Addition Layered Roof			
	18B	" " " "			
	HR-HS-01A	Plaster			
	01B	"			
	01C	"			
	~~HR-HS-02A~~	add per Darrel 1125			
	B				
	C				

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Pg 1 of 1

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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 : 4-30-22
Project : 1522 W. Holmes Rd.
Project # :
Contact Person: Aaron Paquet
labdata@redcedarconsulting.net

Lab Use Only
Log-In ____
Report ____

Turn Around Times: (Circle One)

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

Rush (24 hour) 48 hour 72 hour
Other : _____ (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
	HR-HM-19A	KT. Sink Undercut			
	↓ 19B	" "			

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Date : _____ Date : 1100

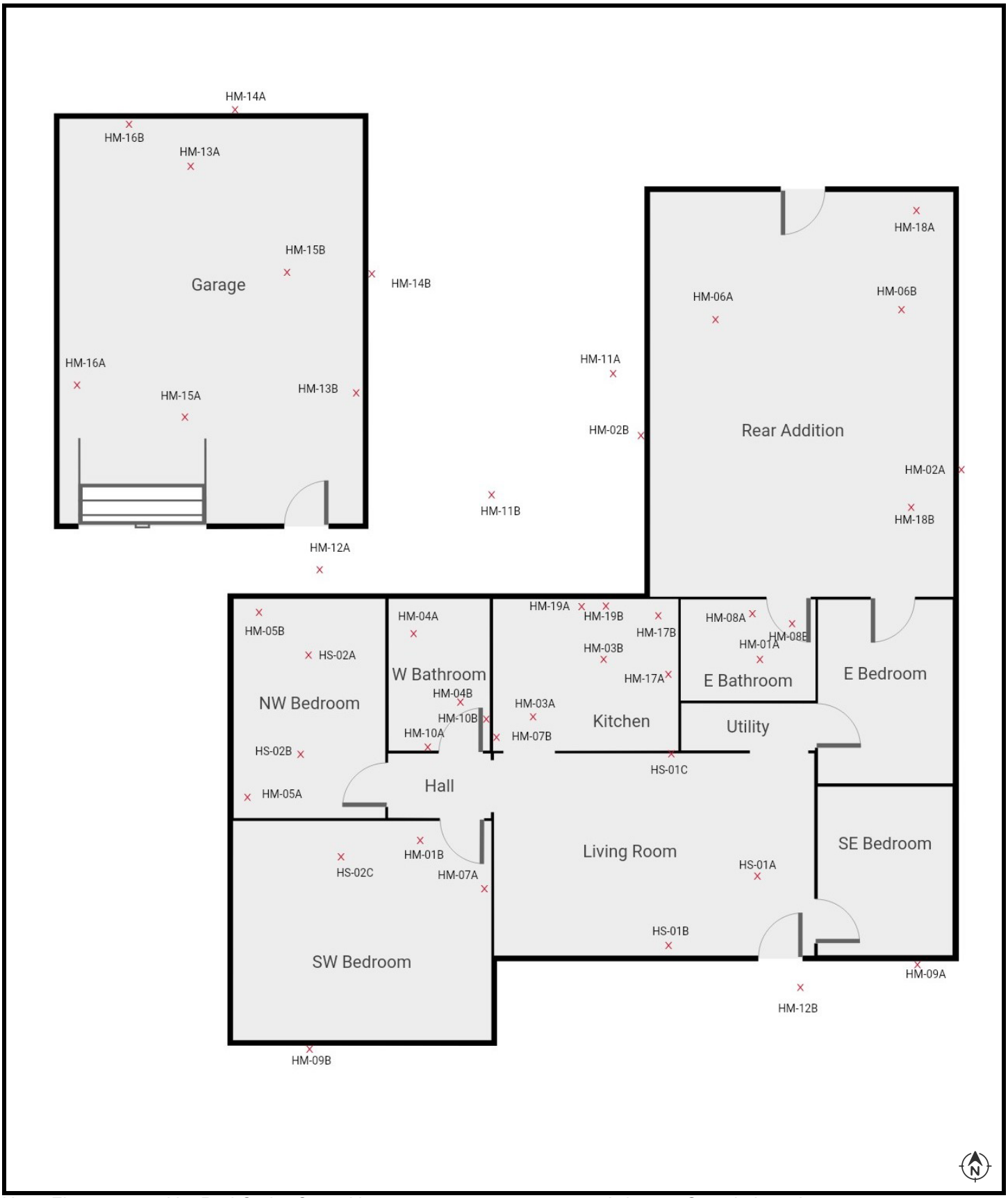
Rev: 12/03
Work Forms: COC

Attachment B

Site Diagrams

Red Cedar Consulting

Figure 1 Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
1522 W Holmes Rd.
Lansing, MI

Attachment C

ACM Photos

PHOTO: 1 **BY: A. Paquet**
SUBJECT: View of front of the Property.

PHOTO: 2 **BY: A. Paquet**
SUBJECT: Asbestos Flooring in W Bathroom

PHOTO: 3 **BY: A. Paquet**
SUBJECT: Asbestos Flooring in NW Bedroom

PHOTO: 4 **BY: A. Paquet**
SUBJECT: Asbestos Drywall Compound in SW Bedroom

PHOTO: 5 **BY: A. Paquet**
SUBJECT: Asbestos Chimney Flashing

PHOTO: 6 **BY: A. Paquet**
SUBJECT: Asbestos Roofing (bottom layer is asbestos) on Rear Entry

Attachment D

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

Tables

Table 1 - Summary of Hazardous Materials, 1522 W Holmes Rd., Lansing, Michigan

Hazardous Materials Description and Location		
Location	**Material Description**	**Quantity**
Living Room	Smoke Detector	1

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1522 W Holmes Rd., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
HR-HM-01A	(House) Black Shingle	No	M	Category I	ND/ND	Exterior House	1,850 sq. ft.
HR-HM-01B	(House) Black Shingle	No	M	Category I	ND/ND	Exterior House	NA
HR-HM-02A	Vapor Barrier	Yes	M	Category II	ND	Exterior House	2.900 sq. ft.
HR-HM-02B	Vapor Barrier	Yes	M	Category II	ND	Exterior House	NA
HR-HM-03A	Gray, Blue & White Vinyl	No	M	Category I	ND	Kitchen	100 sq. ft.
HR-HM-03B	Gray, Blue & White Vinyl	No	M	Category I	ND	Kitchen	NA
HR-HM-04A	Layered White Vinyl/Black Diamond	No	M	Category I	ND/ND/ND/10% CH	W Bathroom	55 sq. ft.
HR-HM-04B	Layered White Vinyl/Black Diamond	No	M	Category I	ND/ND/ND/NA	W Bathroom	NA
HR-HM-05A	9x9 Tan w/brown streak VFT	No	M	Category I	10% CH/ND	NW Bedroom	130 sq. ft.
HR-HM-05B	9x9 Tan w/brown streak VFT	No	M	Category I	NA/ND	NW Bedroom	NA
HR-HM-06A	1x1 White CT	Yes	M	Category II	ND	Rear Entry	440 sq. ft.
HR-HM-06B	1x1 White CT	Yes	M	Category II	ND	Rear Entry	NA
HR-HM-07A	Drywall & Joint Compound	No	M	Category II	ND/ND	Kitchen Wall	NA
HR-HM-07B	Drywall & Joint Compound	No	M	Category II	ND/1.5% CH	SW Bedroom Wall	2,870 sq. ft.
HR-HM-08A	Tan Linoleum	No	M	Category I	ND	E Bathroom	50 sq. ft.
HR-HM-08B	Tan Linoleum	No	M	Category I	ND	E Bathroom	NA
HR-HM-09A	Trim Caulk	No	M	Category II	ND	Exterior	350 lin. ft.
HR-HM-09B	Trim Caulk	No	M	Category II	ND	Exterior	NA
HR-HM-10A	Black Cove Base	No	M	Category II	ND/ND	W Bathroom	30 lin. ft.
HR-HM-10B	Black Cove Base	No	M	Category II	ND/ND	W Bathroom	NA
HR-HM-11A	Driveway & Sidewalk Concrete	No	M	Category II	ND	Exterior	650 sq. ft.
HR-HM-11B	Driveway & Sidewalk Concrete	No	M	Category II	ND	Exterior	NA
HR-HM-12A	Front & Rear Steps Concrete	No	M	Category II	ND	Exterior	60 sq. ft.
HR-HM-12B	Front & Rear Steps Concrete	No	M	Category II	ND	Exterior	NA
HR-HM-13A	Black Shingle Roof (Garage)	No	M	Category I	ND/ND/ND	Exterior Garage	650 sq. ft.
HR-HM-13B	Black Shingle Roof (Garage)	No	M	Category I	ND/ND/ND	Exterior Garage	NA
HR-HM-14A	Garage Window Glazing	Yes	M	Category II	ND	Exterior Garage	4 Windows

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 1522 W Holmes Rd., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
HR-HM-14B	Garage Window Glazing	Yes	M	Category II	ND	Exterior Garage	NA
HR-HM-15A	Garage Floor Concrete	No	M	Category II	ND	Garage	430 sq. ft.
HR-HM-15B	Garage Floor Concrete	No	M	Category II	ND	Garage	NA
HR-HM-16A	Garage Drywall	No	M	Category II	ND	Garage	250 sq. ft.
HR-HM-16B	Garage Drywall	No	M	Category II	ND	Garage	NA
HR-HM-17A	Flashing	No	M	Category I	10% CH	Exterior House	15 sq. ft.
HR-HM-17B	Flashing	No	M	Category I	NA	Exterior House	NA
HR-HM-18A	Rear Addition Layered Roof	No	M	Category I	ND/ND/ND/10% CH	Exterior House	450 sq. ft.
HR-HM-18B	Rear Addition Layered Roof	No	M	Category I	ND/ND/ND/NA	Exterior House	NA
HR-HM-19A	KT Sink Undercoat	No	M	Category II	ND	Kitchen	1 Sink
HR-HM-19B	KT Sink Undercoat	No	M	Category II	ND	Kitchen	NA
HR-HS-01A	Plaster	No	S	Category II	ND/ND	Living Ceiling	580 sq. ft.
HR-HS-01B	Plaster	No	S	Category II	ND/ND	Living Wall	NA
HR-HS-01C	Plaster	No	S	Category II	ND/ND	Living Wall	NA
HR-HS-02A	Texture	No	S	Category II	ND	NW Bedroom Ceiling	350 sq. ft.
HR-HS-02B	Texture	No	S	Category II	ND	NW Bedroom Ceiling	NA
HR-HS-02C	Texture	No	S	Category II	ND	SW Bedroom Ceiling	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 4 - Summary of All Asbestos Containing Materials, 1522 W Holmes Rd., Lansing, 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 Asbestos Containing Materials, 1522 W Holmes Rd., Lansing, Michigan

Exterior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
Building Roof	Rear Addition Layered Roof (bottom layer is asbestos)	No	450 sq. ft.
Building Roof	Flashing on Chimney and Vents	No	15 sq. ft.
	Total		**465 sq. ft.**
Interior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
W Bathroom	Layered White Vinyl/Black Diamond (bottom layer is asbestos)	No	55 sq. ft.
NW Bedroom	9x9 Tan w/brown streak VFT	No	130 sq. ft.
	Total		**185 sq. ft.**
Interior - Asbestos Containing Materials			
Location	**Material Description**	**Friable**	**Approx. Quantity**
Building Interior Walls and Ceilings	Drywall Compound	No	2,870 sq. ft.
	Total		**2,870 sq. 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.

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.