



P.O. Box 13216
Lansing, MI 48901
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www.redcedarconsulting.net

June 15, 2021

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

**RE: *Asbestos Containing Material and Hazardous Materials Inspection
729 S Hayford Ave., Lansing, MI 48912
Parcel ID: 33-01-01-23-105-061***

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 729 S Hayford 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 .1-acre residential parcel which contains a garden shed and approximate 504 square foot residential building (the Building) constructed in 1911. The Building was constructed on a concrete basement with one aboveground floor. The exterior walls of the Building were finished with aluminum lap 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, and two 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 May 7, 2021 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
- Flashing
- Linoleum
- Fiberboard
- Drywall
- Sink Undercoat
- Glazing
- 2x4 Ceiling Tile
- Concrete
- Foundation Concrete
- Textured Surfacing

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

Hazardous Materials Inspection

On May 7, 2021, 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-two samples of suspect ACM were collected and are documented in Table 2 along with the Red Cedar sample number, description, friability, material type, ACM classification, sample location, material quantity and laboratory analytical results. A Site Diagram was prepared which provides the general building layout and sample locations and is included as Attachment B. 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

Asphalt Flashing samples 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 10 sq. ft. of asphalt roofing materials on the Building.

Category II ACM

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

RECOMMENDATIONS

Asbestos Containing Materials

The Category I Asphalt Flashing materials are a non-friable ACM 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:

- Refrigerator (1)
- Smoke Detector (4)

Project No.: 19-1159
Ingham County Land Bank
Parcel ID: 33-01-01-23-105-061

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

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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. 9-17-2021)

Red Cedar Consulting

Attachment A
APEX Research Laboratory Analytical Results

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
 Project : 729 Hayford Ave.



Report To:

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ARI Report # 21-94202
 Date Collected: 05/07/21
 Date Received: 05/10/21
 Date Analyzed: 05/13/21
 Date Reported: 05/17/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 01 Cust. #: HA-HM-01A Material: Asphalt Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 15% Other - 85%
Lab ID #: 94202 - 01a Cust. #: HA-HM-01A Material: Tar Paper Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 94202 - 02 Cust. #: HA-HM-01B Material: Asphalt Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Fiberglass - 15% Other - 85%

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.



NVLAP Lab Code 102118-0

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

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 02a Cust. #: HA-HM-01B Material: Tar Paper Location: Appearance: black, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 94202 - 03 Cust. #: HA-HM-02A Material: Asphalt Siding Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 94202 - 04 Cust. #: HA-HM-02B Material: Asphalt Siding Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 05 Cust. #: HA-HM-03A Material: Flashing Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 94202 - 06 Cust. #: HA-HM-03B Material: Flashing Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 94202 - 07 Cust. #: HA-HM-04A Material: Green Asphalt Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 25% Other - 75%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 08 Cust. #: HA-HM-04B Material: Green Asphalt Shingle Location: Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 25% Other - 75%
Lab ID #: 94202 - 09 Cust. #: HA-HM-05A Material: White Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Synthetic - 2% Other - 73%
Lab ID #: 94202 - 10 Cust. #: HA-HM-05B Material: White Linoleum Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Synthetic - 2% Other - 73%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 11 Cust. #: HA-HM-06A Material: Fiberboard (Dark) Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 12 Cust. #: HA-HM-06B Material: Fiberboard (Dark) Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 13 Cust. #: HA-HM-07A Material: Fiberboard (Lite) Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 14 Cust. #: HA-HM-07B Material: Fiberboard (Lite) Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 15 Cust. #: HA-HM-08A Material: Fiberboard Location: Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 15a Cust. #: HA-HM-08A Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 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 #: 94202 - 16 Cust. #: HA-HM-08B Material: Fiberboard/CT Location: Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 16a Cust. #: HA-HM-08B Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 94202 - 17 Cust. #: HA-HM-09A Material: Sink Undercoat Location: Appearance: black, nonfibrous, nonhomogenous 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 #: 94202 - 18 Cust. #: HA-HM-09B Material: Sink Undercoat Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 19 Cust. #: HA-HM-10A Material: Window Glazing Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 94202 - 20 Cust. #: HA-HM-10B Material: Window Glazing Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Wollastonite - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 21 Cust. #: HA-HM-11A Material: 2x4 White Ceiling Tile Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 22 Cust. #: HA-HM-11B Material: 2x4 White Ceiling Tile Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 94202 - 23 Cust. #: HA-HM-12A Material: 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 #: 94202 - 24 Cust. #: HA-HM-12B Material: Sidewalk Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 25 Cust. #: HA-HM-13A Material: Concrete Location: Basement Floor Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 26 Cust. #: HA-HM-13B Material: Concrete Location: Basement Floor Appearance: beige,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 : 729 Hayford Ave.



Report To:

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

ARI Report # 21-94202
 Date Collected: 05/07/21
 Date Received: 05/10/21
 Date Analyzed: 05/13/21
 Date Reported: 05/17/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 27 Cust. #: HA-HS-01A Material: Foundation Concrete Over Block Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 28 Cust. #: HA-HS-01B Material: Foundation Concrete Over Block Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 29 Cust. #: HA-HS-01C Material: Foundation Concrete Over Block Location: Appearance: beige,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 : 729 Hayford Ave.



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

ARI Report # 21-94202
 Date Collected: 05/07/21
 Date Received: 05/10/21
 Date Analyzed: 05/13/21
 Date Reported: 05/17/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 30 Cust. #: HA-HS-02A Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 30a Cust. #: HA-HS-02A Material: Drywall Location: Appearance: beige,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 94202 - 31 Cust. #: HA-HS-02B Material: Textured Surfacing 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

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 : 729 Hayford Ave.



Report To:

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

ARI Report # 21-94202
 Date Collected: 05/07/21
 Date Received: 05/10/21
 Date Analyzed: 05/13/21
 Date Reported: 05/17/21

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 94202 - 31a Cust. #: HA-HS-02B Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 94202 - 32 Cust. #: HA-HS-02C Material: Textured Surfacing Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 94202 - 32a Cust. #: HA-HS-02C Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%

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 # **94202**

1 of 3

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: 5-7-21

Project: 729 Highland Ave

Project #:

Contact Person: Aaron Paquet

Lab Use Only
 Log-In _____
 Report _____

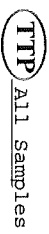
Turn Around Times: (Circle One)

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

Rush 24 hour

48 hour 72 hour

Other: 5 day



Asbestos: Bulk Wipe _____

Point Count _____ PCM _____

Lead: Bulk _____

Air _____ Paint _____ Soil _____

Mold: Bulk _____

Tape _____ BioSIS _____ Other _____ Viable _____

TEMI: AHERA 7400 _____

Bulk/NOB _____ EPA Level II _____

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
	HA-HY-01A	Asphalt Skingle			
	01B	"			
	02A	Asphalt siding			
	02B	"			
	03A	Fisking			
	03B	"			
	04A	Green Asphalt Skingle			
	04B	"			
	05A	White Linoleum			
	05B	"			
	06A	Fiberboard (Dark)			

RECEIVED

Relinquished by: *[Signature]*

Received by: UPS

Date: 5-7-21

Date: 5-7-21

Relinquished by: WAT

Received by:

Date: 5/11/2021
 APEX RESEARCH

Date:

APEX Research, Inc.

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



Client Name: Red Cedar Consulting

Date of Survey: 5-7-21

Address: PO Box 13216

Project: 229 Highland Ave

City, St., Zip: Lansing, MI 48901

Project #: _____

Phone: (888) 449-4566 Fax: (888) 448-8739

Contact Person: Aaron Paquet

Turn Around Times: (Circle One) P1M EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush 24 hour

Asbestos: Bulk Wipe Point Count PCM

48 hour 72 hour

Lead: Bulk Wipe Air Paint Soil

Other: Sday All Samples

Mold: Bulk Tape Other Viable

TEM: AHERA 7400 Bulk/NOB EPA Level II

Lab ID #	Client ID #	Material/Location	Volume	Area	Results
HA-HR-06B		Fiberband (Bank)			
07A		Fiberband (Lite)			
07B		" "			
08A		Fiberband Drywall			
08B		" "			
09A		Sink Undercoot			
09B		" "			
10A		Window Siding			
10B		" "			
11A		2nd White C.T.			
11B		" "			

RECEIVED

Lab Use Only
 Log-in _____
 Report _____

Relinquished by:

Received by: UTS

Relinquished by: 10/2021

Received by: _____

Date: 5-7-21

Date: 5-7-21

Date: _____

Date: _____

APEX Research, Inc.

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



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

Date of Survey: 5-7-21
 Project: 729 Hesperus Ave
 Project #: _____
 Contact Person: Aaron Paquet

Lab Use Only
 Log-In _____
 Report _____

Turn Around Times: (Circle One) PLM EPA 600, PC all samples with a detection of <5% ACM. labdata@redcedarconsulting.net

Rush 24 hour
 48 hour 72 hour
 Other: 5 days **TTP** All Samples
 Asbestos: Bulk 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
HA-HM-12A	12B	Sidewalk Concrete			
	13A	Basement Floor Concrete			
	13B	"			
HA-HS-01A	01B	Foundation Concrete over Block			
	01C	"			
HA-HS-02A	02B	Texture Surfacing / Drywall			
	02C	"			

RECEIVED

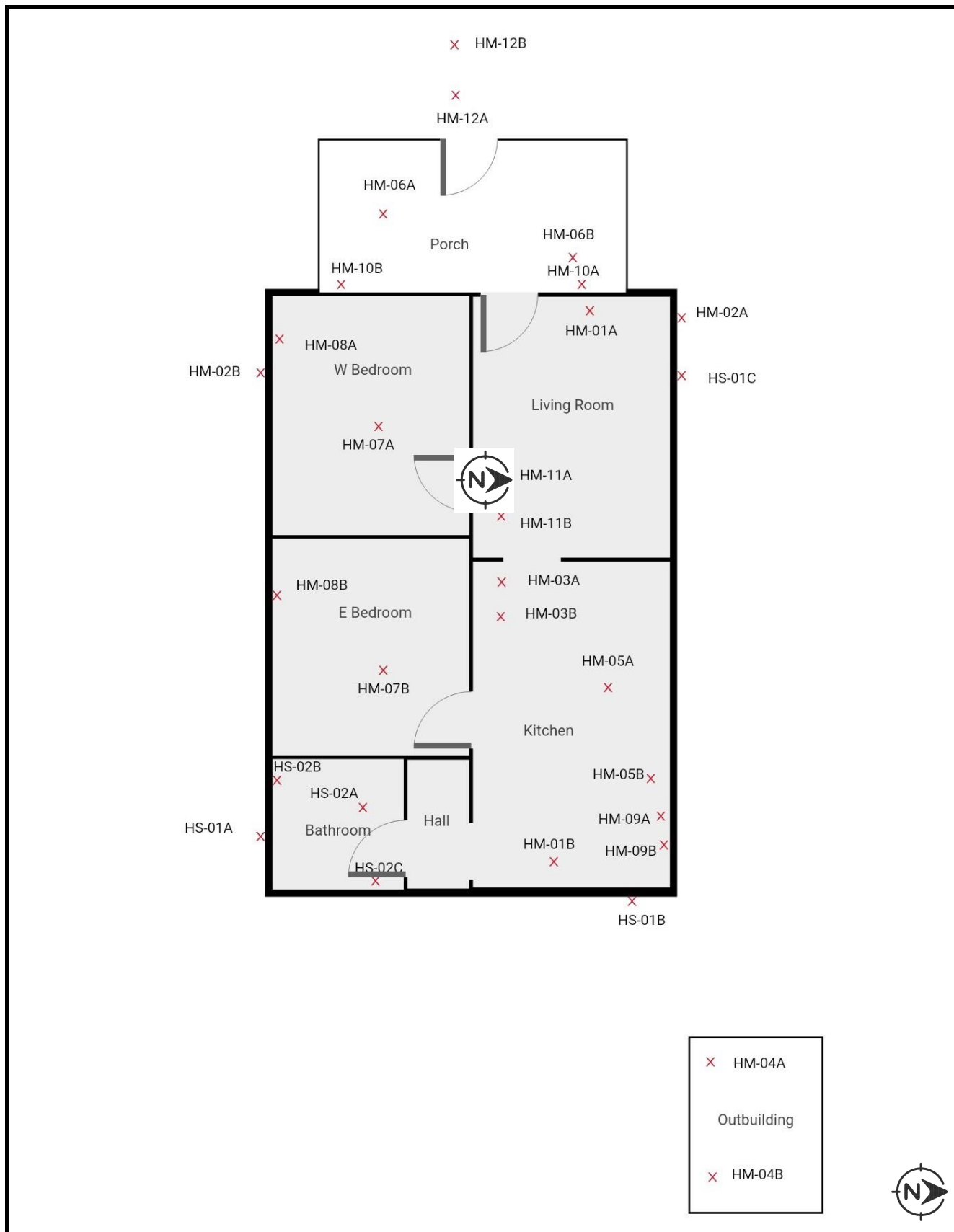
Relinquished by: [Signature]
 Date: 5-7-21
 Received by: UPS
 Date: 5-7-21

Relinquished by: 2021
 Date: Alanna A (1105449)
 Date: _____
 Received by: _____

Red Cedar Consulting

Attachment B
Site Diagrams

Figure 1a Site Diagram

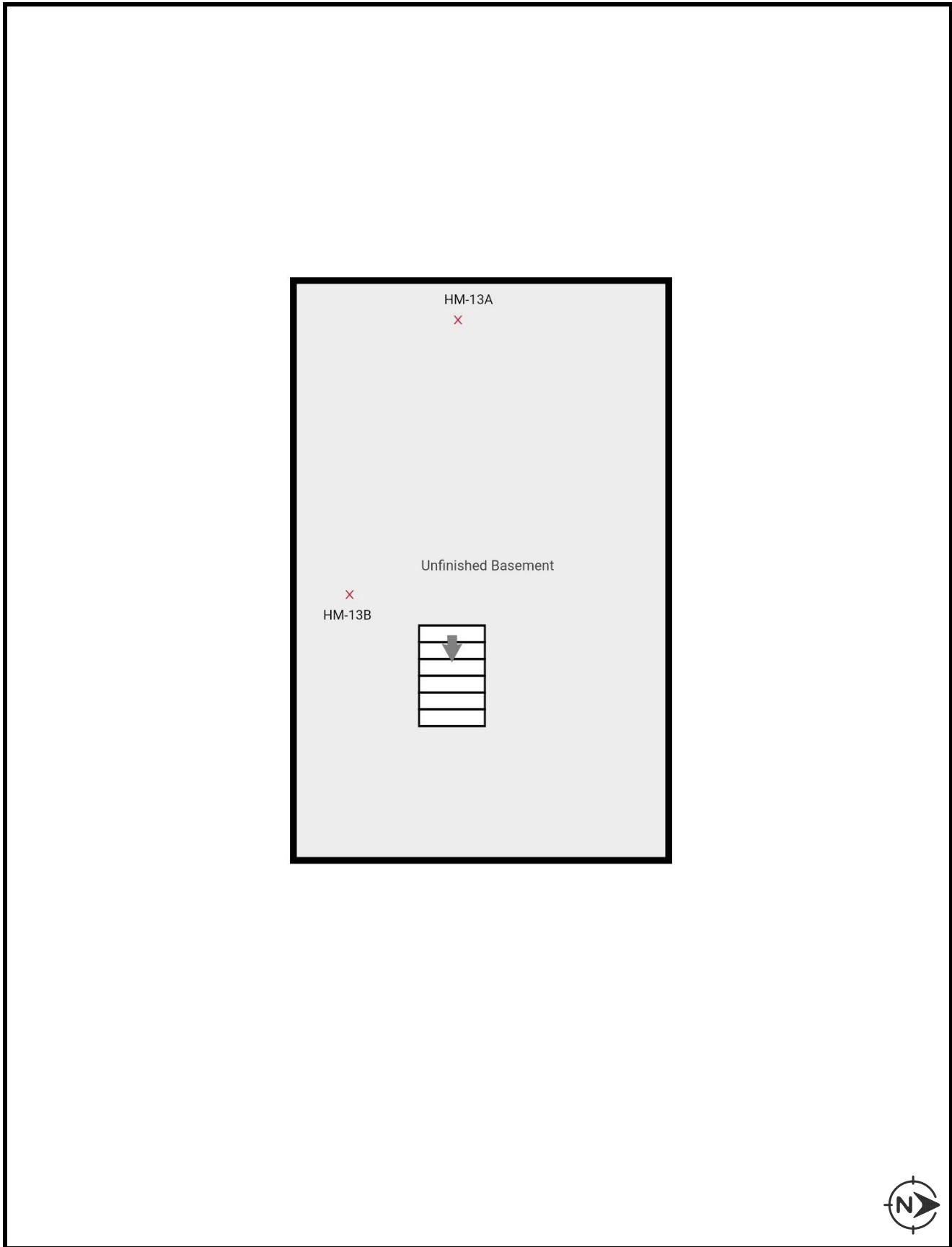


Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
729 S Hayford Ave.
Lansing, MI

Figure 1b Site Diagram



Note: Figure created by Red Cedar Consulting

-Not To Scale-

Asbestos Sample Locations
729 S Hayford Ave.
Lansing, MI

Red Cedar Consulting

Attachment C
ACM Photos



PHOTO: 1
SUBJECT: View of front of the Property.

BY: A. Paquet



PHOTO: 2
SUBJECT: Chimey Flashing

BY: A. Paquet

Red Cedar Consulting

Attachment D
Inspector Certifications/ID's

MICHIGAN State of Michigan MICHIGAN
 MICHIGAN Department of Labor and Economic Opportunity MICHIGAN
 Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Inspector

Aaron J. Paquet
 228 West Berry Avenue
 Lansing, MI 48910

Accreditation Number **Expiration Date**
 A30955 09/17/2021

DOB: 07/26/1976

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered. 148383

MICHIGAN State of Michigan MICHIGAN
 MICHIGAN Department of Labor and Economic Opportunity MICHIGAN
 Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Management Planner

Aaron J. Paquet
 228 West Berry Avenue
 Lansing, MI 48910

Accreditation Number **Expiration Date**
 A30955 09/17/2021

DOB: 07/26/1976

This individual has satisfactorily met or exceeded the requirements of Section 206 of the Toxic Substances Control Act to be accredited in the above discipline.

Accreditation card is not valid if altered. 148384

MICHIGAN State of Michigan MICHIGAN
 MICHIGAN Department of Labor and Economic Opportunity MICHIGAN
 Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Contractor/Supervisor

Aaron J. Paquet
 228 West Berry Avenue
 Lansing, MI 48910

Accreditation Number **Expiration Date**
 A30955 01/25/2022

DOB: 07/26/1976

This individual has satisfactorily met or exceeded the requirements of Section 206 of the Toxic Substances Control Act to be accredited in the above discipline.

Accreditation card is not valid if altered. 149761

Tables

Table 1 - Summary of Hazardous Materials, 729 S Hayford Ave., Lansing, Michigan

Hazardous Materials Description and Location		
Location	Material Description	Quantity
Kitchen	Refrigerator	1
Living	Smoke Detector	1
SW Bedroom	Smoke Detector	1
E Bedroom	Smoke Detector	1
Basement	Smoke Detector	2

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 729 S Hayford Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
HA-HM-01A	Asphalt Shingle	No	M	Category I	ND/ND	Exterior	950 sq. ft.
HA-HM-01B	Asphalt Shingle	No	M	Category I	ND/ND	Exterior	NA
HA-HM-02A	Asphalt Siding	Yes	M	Category II	ND	Exterior	1,450 sq. ft.
HA-HM-02B	Asphalt Siding	Yes	M	Category II	ND	Exterior	NA
HA-HM-03A	Flashing	No	M	Category I	10% CH	Exterior	10 sq. ft.
HA-HM-03B	Flashing	No	M	Category I	NA	Exterior	NA
HA-HM-04A	Green Asphalt Shingle	No	M	Category I	ND	Exterior Shed	160 sq. ft.
HA-HM-04B	Green Asphalt Shingle	No	M	Category I	ND	Exterior Shed	NA
HA-HM-05A	White Linoleum	No	M	Category I	ND	Kitchen	185 sq. ft.
HA-HM-05B	White Linoleum	No	M	Category I	ND	Kitchen	NA
HA-HM-06A	Fiberboard (dark)	Yes	M	Category II	ND	Front Entry	150 sq. ft.
HA-HM-06B	Fiberboard (dark)	Yes	M	Category II	ND	Front Entry	NA
HA-HM-07A	Fiberboard (lite)	Yes	M	Category II	ND	W Bedroom Ceiling	250 sq. ft.
HA-HM-07B	Fiberboard (lite)	Yes	M	Category II	ND	E Bedroom Ceiling	NA
HA-HM-08A	Fiberboard/Drywall	No	M	Category II	ND/ND	W Bedroom Wall	650 sq. ft.
HA-HM-08B	Fiberboard/Drywall	No	M	Category II	ND/ND	E Bedroom Wall	NA
HA-HM-09A	Sink Undercoat	No	M	Category II	ND	Kitchen	2 sq. ft.
HA-HM-09B	Sink Undercoat	No	M	Category II	ND	Kitchen	NA
HA-HM-10A	Window Glazing	Yes	M	Category II	ND	Living	11 Windows
HA-HM-10B	Window Glazing	Yes	M	Category II	ND	SW Bedroom	NA
HA-HM-11A	2x4 White CT	Yes	M	Category II	ND	Living	240 sq. ft.
HA-HM-11B	2x4 White CT	Yes	M	Category II	ND	Living	NA
HA-HM-12A	Sidewalk Concrete	No	M	Category II	ND	Exterior	260 sq. ft.
HA-HM-12B	Sidewalk Concrete	No	M	Category II	ND	Exterior	NA
HA-HM-13A	Basement Floor Concrete	No	M	Category II	ND	Basement	500 sq. ft.
HA-HM-13B	Basement Floor Concrete	No	M	Category II	ND	Basement	NA
HA-HS-01A	Foundation Concrete over Block	No	S	Category II	ND	Exterior	340 sq. ft.
HA-HS-01B	Foundation Concrete over Block	No	S	Category II	ND	Exterior	NA

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 729 S Hayford Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
HA-HS-01C	Foundation Concrete over Block	No	S	Category II	ND	Exterior	NA
HA-HS-02A	Texture Surfacing/Drywall	No	S	Category II	ND/ND	Bath Ceiling	350 sq. ft.
HA-HS-02B	Texture Surfacing/Drywall	No	S	Category II	ND/ND	Bath Wall	NA
HA-HS-02C	Texture Surfacing/Drywall	No	S	Category II	ND/ND	Bath 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, 729 S Hayford 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, 729 S Hayford Ave., Lansing, Michigan

Exterior - Asbestos Containing Materials				
Location	Material Description	Friable	Approx. Quantity	
Building Roof	Chimney Flashing	No	10 sq. ft.	
			Total	10 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.