

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

May 22, 2020

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

#### RE: Asbestos Containing Material and Hazardous Materials Inspection 412 Pearl St., Lansing, MI 48906 Parcel ID: 33-01-01-09-278-331

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 412 Pearl St., 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 .10-acre residential parcel which contains a 360 sq. ft. detached garage and approximate 1,448 square foot residential building (the Building) constructed in 1908. The Building was constructed on a concrete basement with two aboveground floors. The exterior walls of the Building were finished with wood lap while the roof was sealed with asphalt shingles. The Building can be further divided into two apartments (one per 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, 2020 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
- Fiberboard
- Concrete
- Linoleum
- 1'x1' Ceiling Tile
- 12"x12" Vinyl Tile
- Drywall
- Sink Coat
- Glazing
- Plaster

Red Cedar staff collected fifty-three 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-three samples is included as Attachment A.

#### **Hazardous Materials Inspection**

On April 20, 2020 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-three 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:

- Living (1 register, 10 sq. ft.)
- Dining (1 register, 10 sq. ft.)
- Kitchen (1 register, 10 sq. ft.)
- Bathroom (1 register, 15 sq. ft.)
- 2nd Fl. Bedroom duct boot in Bsmt. 10 sq. ft.)
- 2nd Fl. Dining duct boot in Bsmt. 10 sq. ft.)
- 2nd Fl. Kitchen duct boot in Bsmt. 10 sq. ft.)

#### Category I ACM

A resilient floor covering (Wood Grain 12x12 VFT) located within the kitchen was found to contain up to 5% Chrysotile asbestos. The assessment to quantify the extent of this material identified approximately 135 sq. ft. of this material within the Building.

#### Category II ACM

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

#### **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.

- Living (1 register, 10 sq. ft.)
- Dining (1 register, 10 sq. ft.)
- Kitchen (1 register, 10 sq. ft.)
- Bathroom (1 register, 15 sq. ft.)
- 2nd Fl. Bedroom duct boot in Bsmt. 10 sq. ft.)
- 2nd Fl. Dining duct boot in Bsmt. 10 sq. ft.)
- 2nd Fl. Kitchen duct boot in Bsmt. 10 sq. ft.)

The Category I resilient floor covering (Wood Grain 12x12 VFT) is 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:

- Automobile Tires (34)
- 1 Gallon Container Misc. (30)
- Fuel Oil Tank (mostly empty) (1)
- 20 lb. Propane Tank (3)
- Mercury Thermostat (1)
- 5 Gallon Container Misc. (20)
- 1 Quart Container Misc. (10)

#### **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

Raion Poquet

Aaron Paquet Michigan/EPA Certified Asbestos Building Inspector (A30955, Exp. 9-5-2020)

Red Cedar Consulting

## Attachment A

APEX Research Laboratory Analytical Results

# APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189

(734) 449-9990, Fax (734) 449-9991

## **Certificate of Laboratory Analysis**

Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :

Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		Date Collected:04/20/20Date Received:04/23/20Date Analyzed:04/29/20Date Reported:05/06/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89600 - 01 Cust. #: PS-HM-01A Material: Roofing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b>	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 89600 - 02 Cust. #: PS-HM-01B Material: Roofing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b>	Fiberglass - 30% Other - 70%
Lab ID #: 89600 - 03 Cust. #: PS-HM-02A	Asbestos Present: NO	Cellulose - 80%

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

NVLAP Lab Code 102118-0

Robert T. Letarte Jr., Laboratory Director

Test Method 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 tested 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.

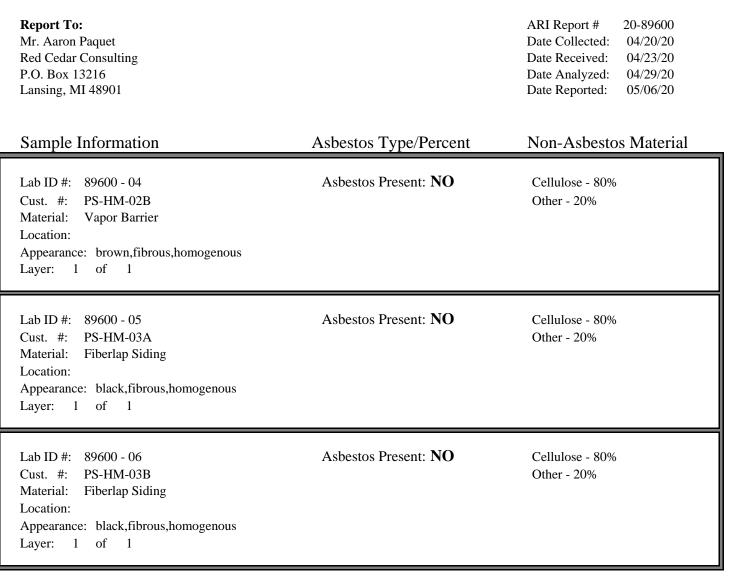


Report To

ARI Report # 20-89600

Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



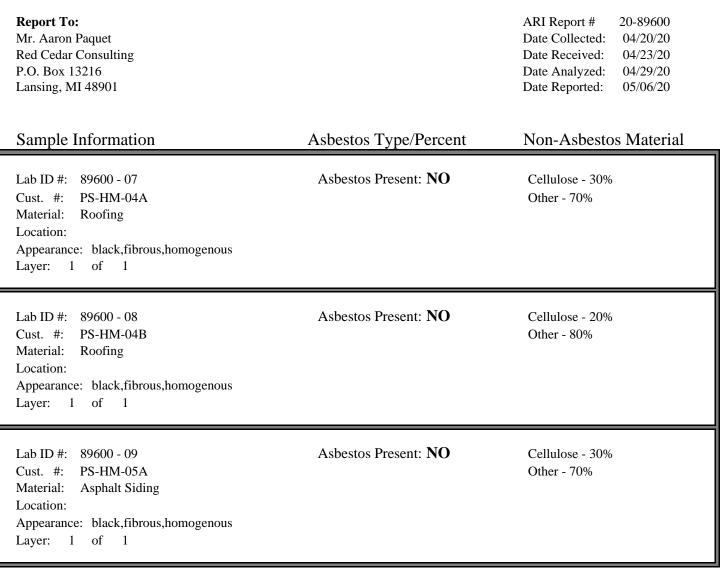
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Robert T. Letarte Jr., Laboratory Director



Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



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

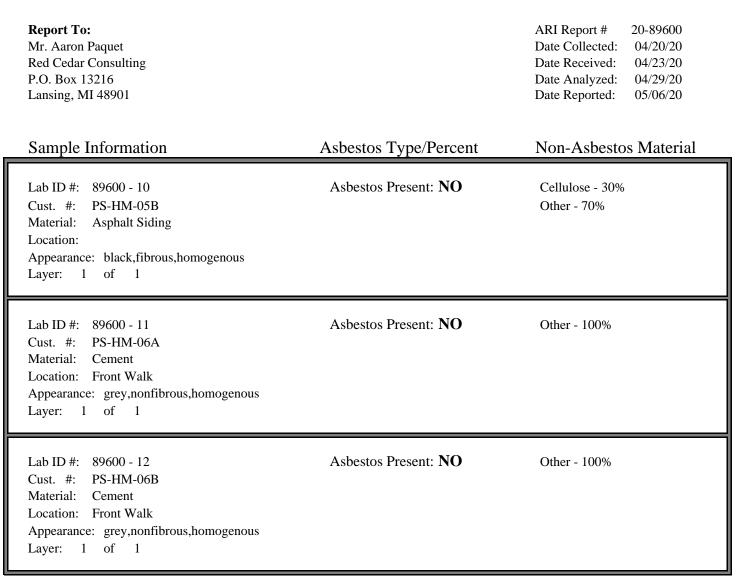
Robert T. Letarte Jr., Laboratory Director





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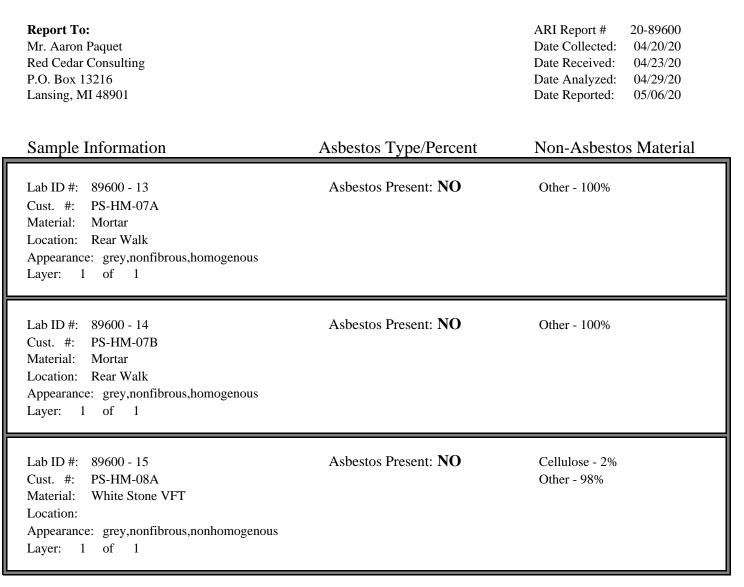
Robert T. Letarte Jr., Laboratory Director





Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



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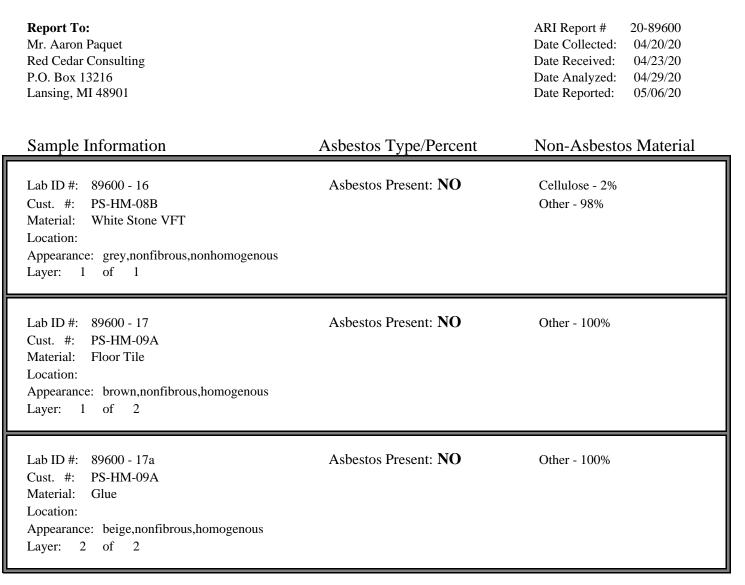
Robert T. Letarte Jr., Laboratory Director





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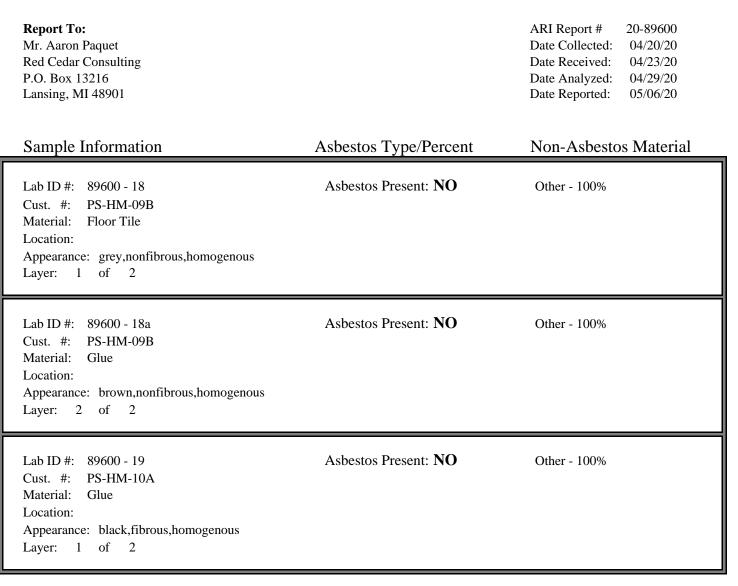
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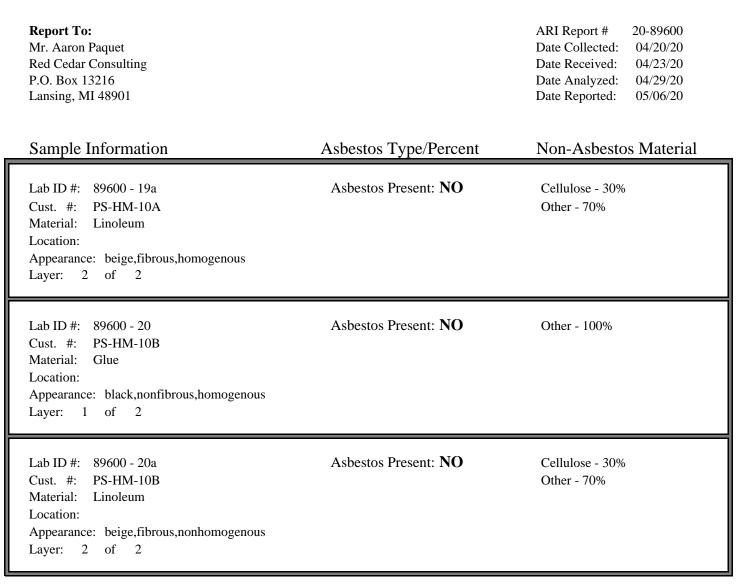
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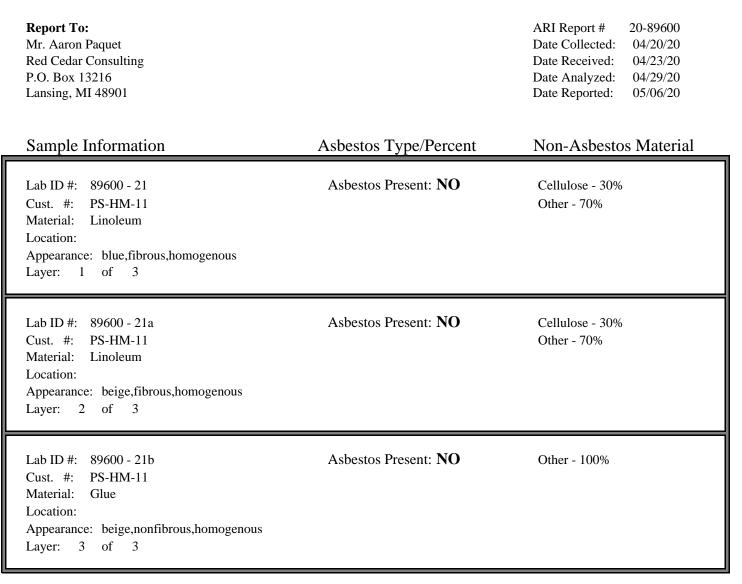
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Project : 412 Pearl St. Project # :



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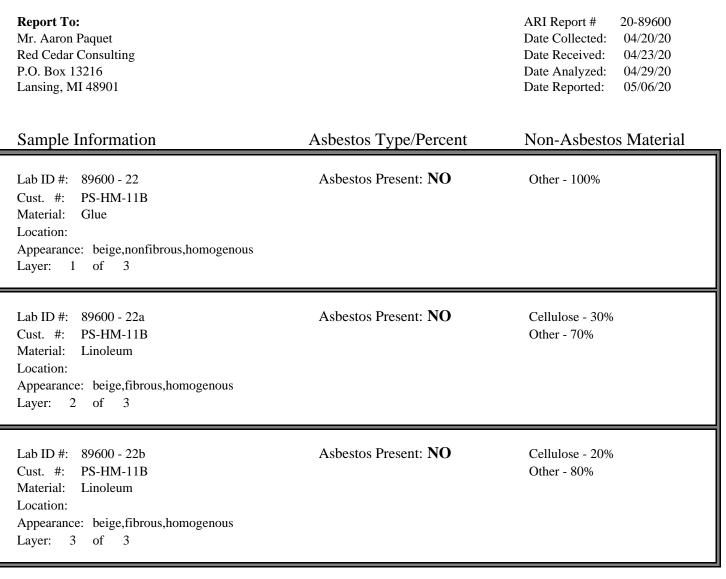
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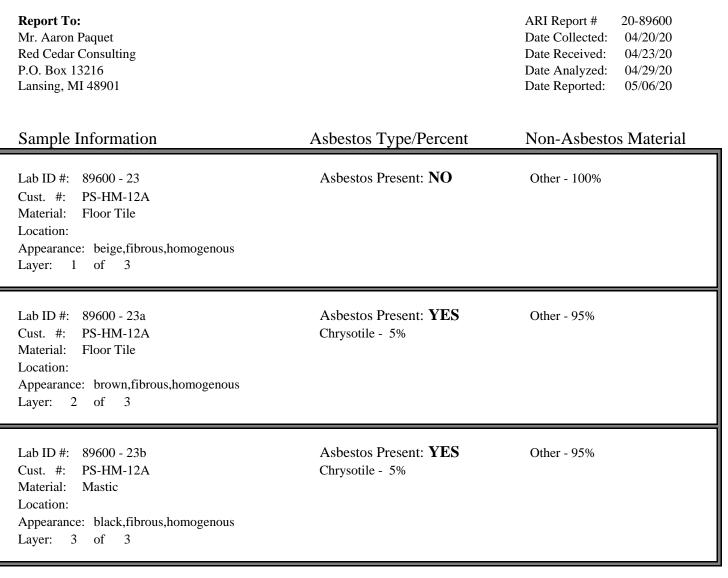
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Project : 412 Pearl St. Project # :



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Project : 412 Pearl St. Project # :

Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		Date Collected:04/20/20Date Received:04/23/20Date Analyzed:04/29/20Date Reported:05/06/20			
Sample Information	Asbestos Type/Percent	Non-Asbestos Material			
Lab ID #: 89600 - 24 Cust. #: PS-HM-12B Material: Wood Grain 12x12 VFT Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED				
Lab ID #: 89600 - 25 Cust. #: PS-HM-13A Material: Floor Tile Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b>	Other - 100%			
Lab ID #: 89600 - 25a Cust. #: PS-HM-13B Material: Linoleum Location: Appearance: brown,fibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b>	Cellulose - 30% Other - 70%			

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

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Robert T. Letarte Jr., Laboratory Director

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**Report To:** 

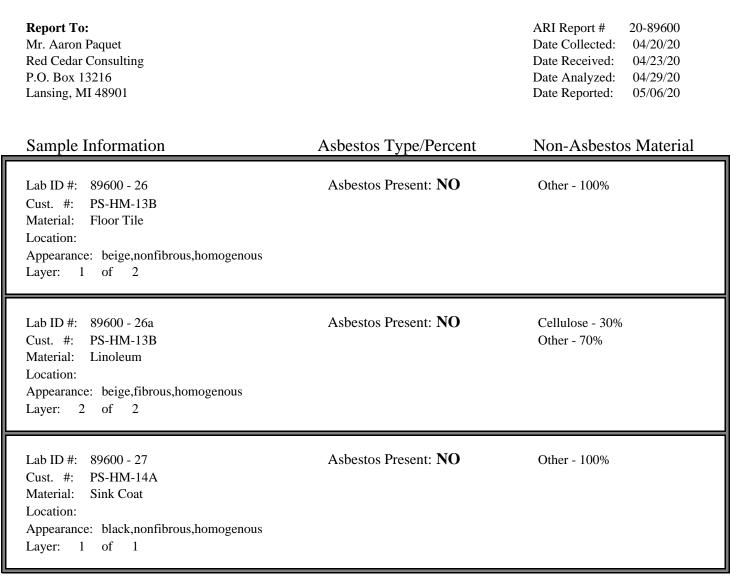


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ARI Report #

Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



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

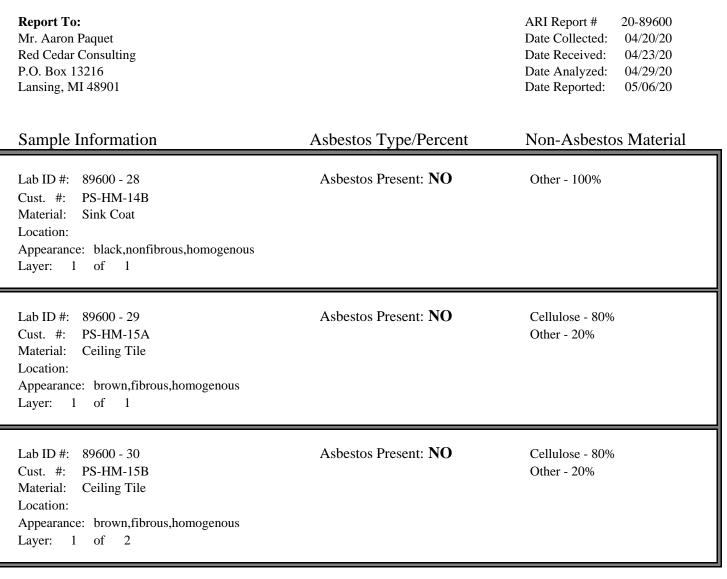
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Project : 412 Pearl St. Project # :



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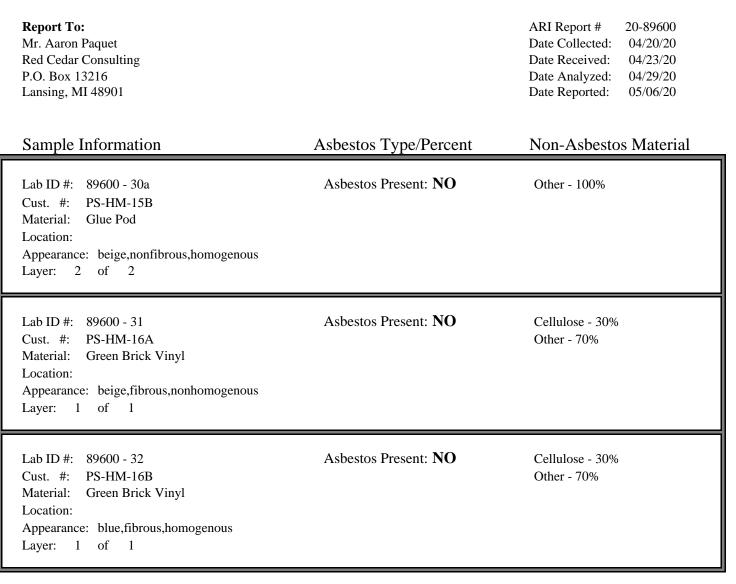
Robert T. Letarte Jr., Laboratory Director





Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



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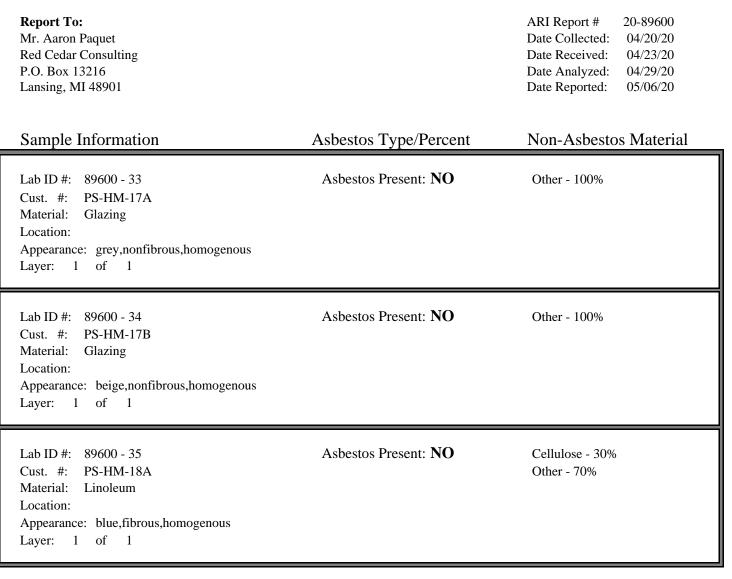
Robert T. Letarte Jr., Laboratory Director





Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



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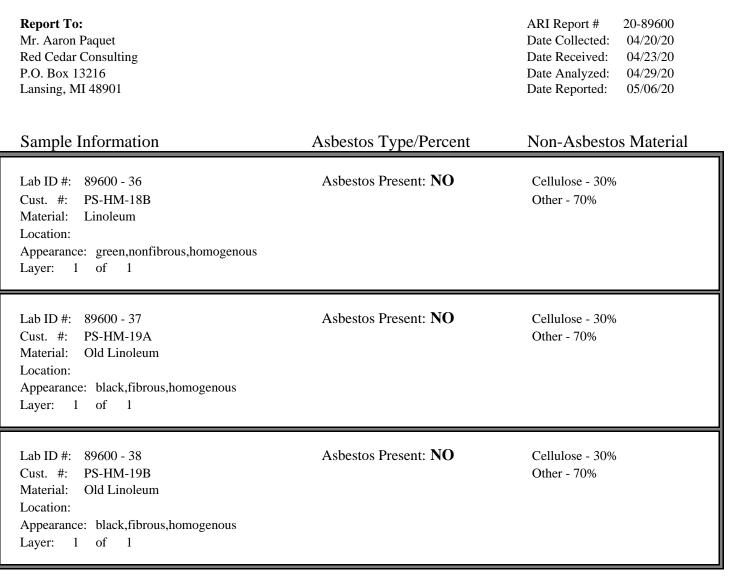
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Test Method, Polarized Light Microscopy (PLM)

Project : 412 Pearl St. Project # :



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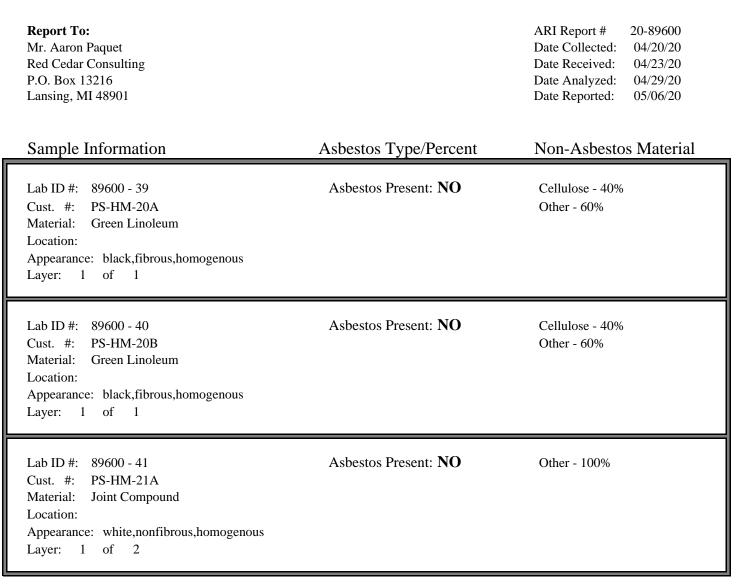
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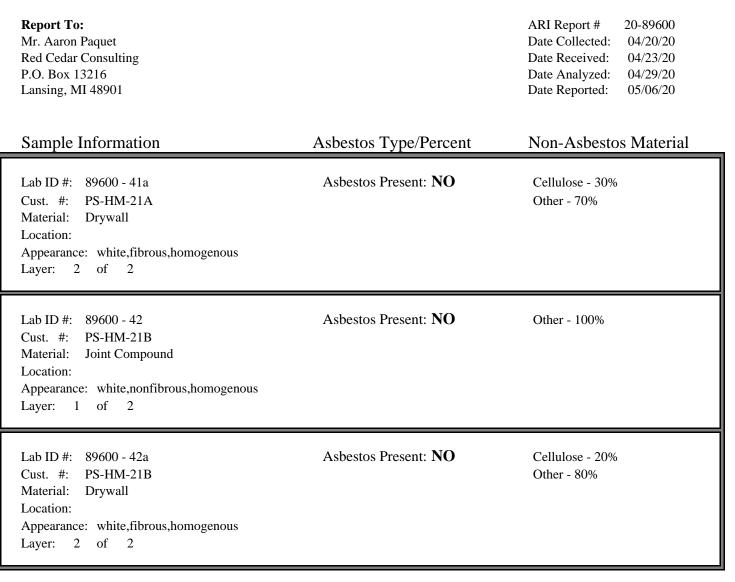
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Project : 412 Pearl St. Project # :



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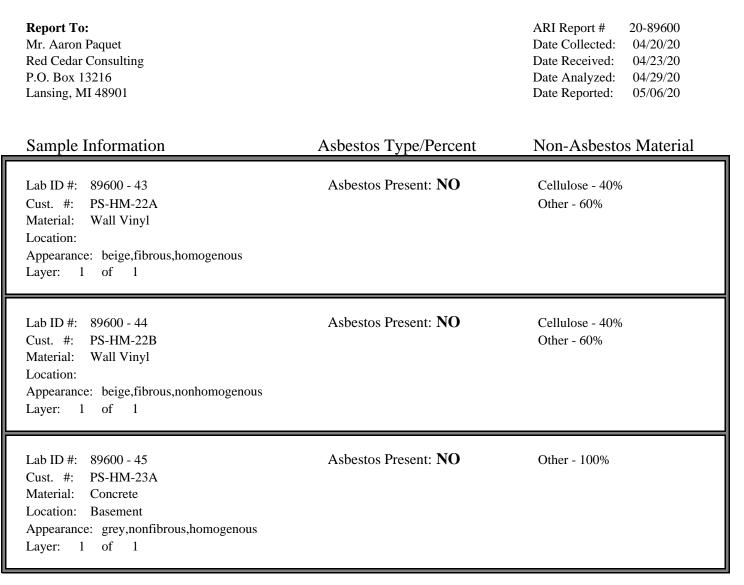
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Test Method, Polarized Light Microscopy (PLM) Project : 412 Pearl St.

Project # :



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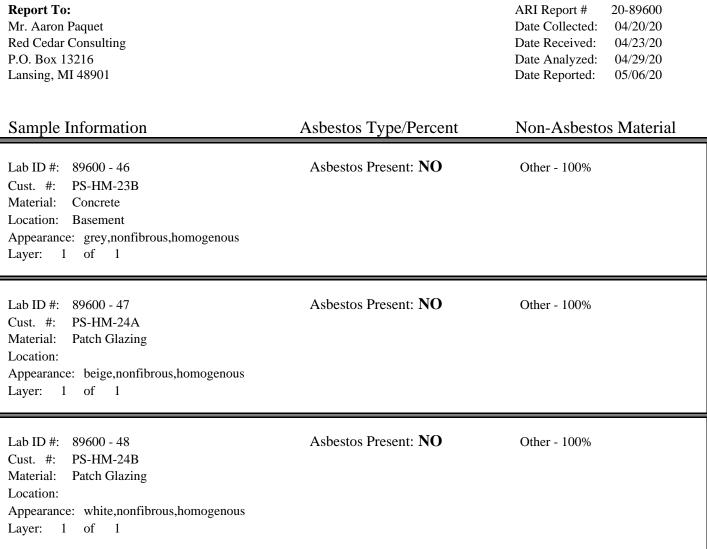
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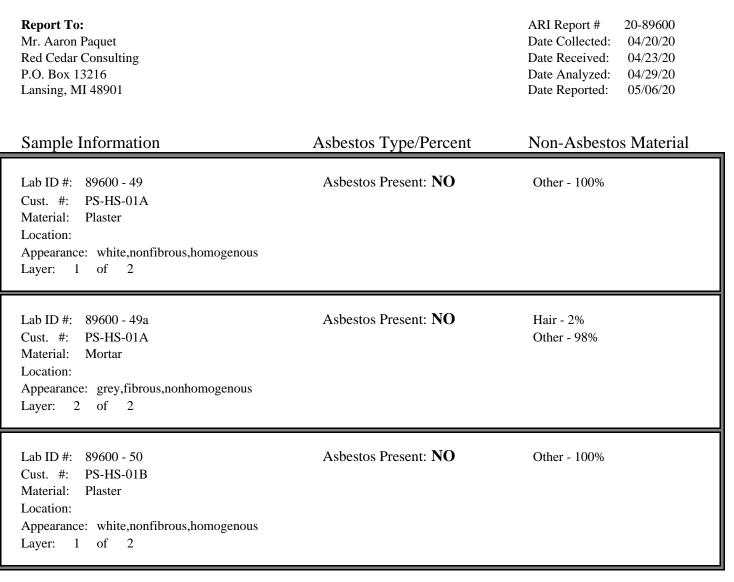
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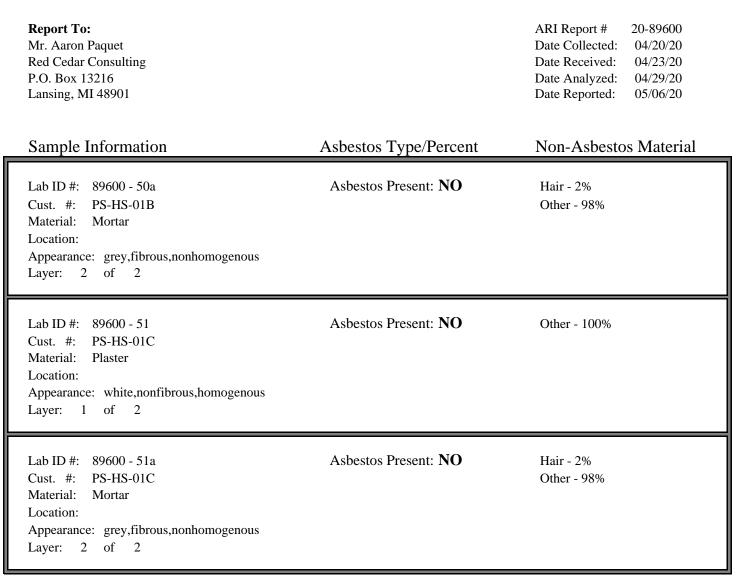
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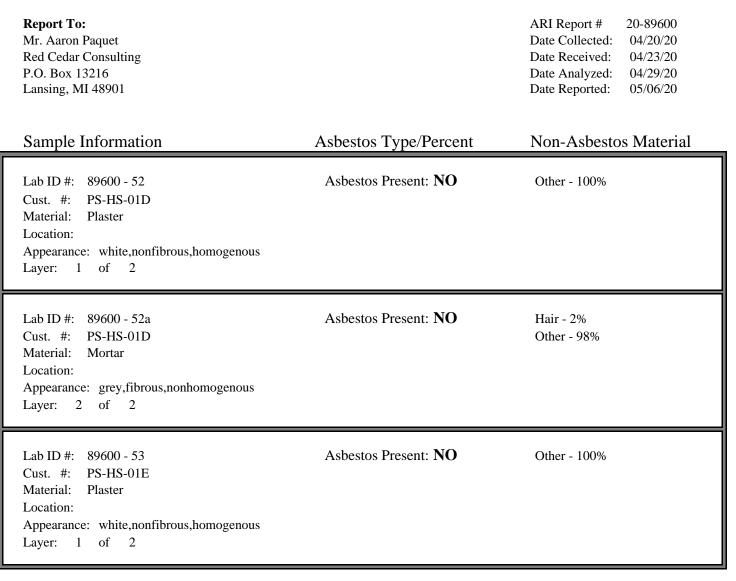
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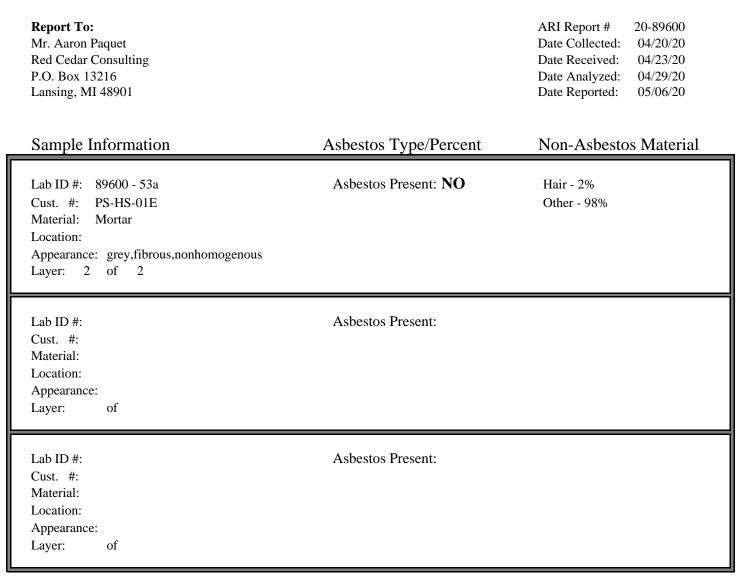
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APEX Research Inc., 11054 Hi Tech Drive, Whitmore Lake, MI 48189 (734) 449-9990, Fax (734) 449-9991



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$\tilde{\mathbf{O}}$	eni:	Fax: (888) 448-8739 S. (Circle One) PLM EPA ( Asbestos: Bulk x Lead: Bulk Cead: Bulk ( Mold: Bulk ( Mold: Bulk ( TEM: AHERA 7400	Materia Asphuett Su U epuer Bue Ksphuett Si United Si
APEX Research, 1	<pre>e: Red Cedar Consulting     PO Box 13216     Lansing, MI 48901</pre>	und Time	ID #     Client ID #       B- 4m - end
APEX	Client Name: Address: City St Zin:	Phone: (88 Phone: (88 Rush 24 48 hour 72 Other: 5	Lab ID #

5,245		4-2020 Peul St Report	t Person: Aaron Paquet L Person: Aaron Paquet labdata@redcedarconsulting.net samples with a detection of <5% ACM. Point Count PCM	Paint     Soil       Other     Viable       EPA Level II	le Area Results	Received by: APEX
89600	<b>nC.</b> 11054 Hi Tech Drive, Whitmore Lake, MI 48189 E-mail: apexresearch@chartermi.net	r Consulting Date of Survey : 3216 Project : 402	9, M1 48901       Fax: (888) 448-8739       Fource         Fax: (888) 448-8739       Contact         ImmeS: (Circle One)       PLM EPA 600, PC all         Asbestos: Bulk       x	Lead:     Bulk     Mipe     Air       TTP     Mold:     Bulk     Tape     BioSIS       TTP     All Samples     TEM:     AHERA 7400     Bulk/NOB	Client ID # Material/Location Volume	Counter First Welk Counter First Welk Counter First Welk Render Reventer Burgendy 17412 UFT Burgendy 17412 UFT Burguished by: Counter Date: Date:
	APEX Research, ]		Phone: (888) 449-4566 Turn Around T Rush 24 hour	ur 72 hour	Lab ID # 0	

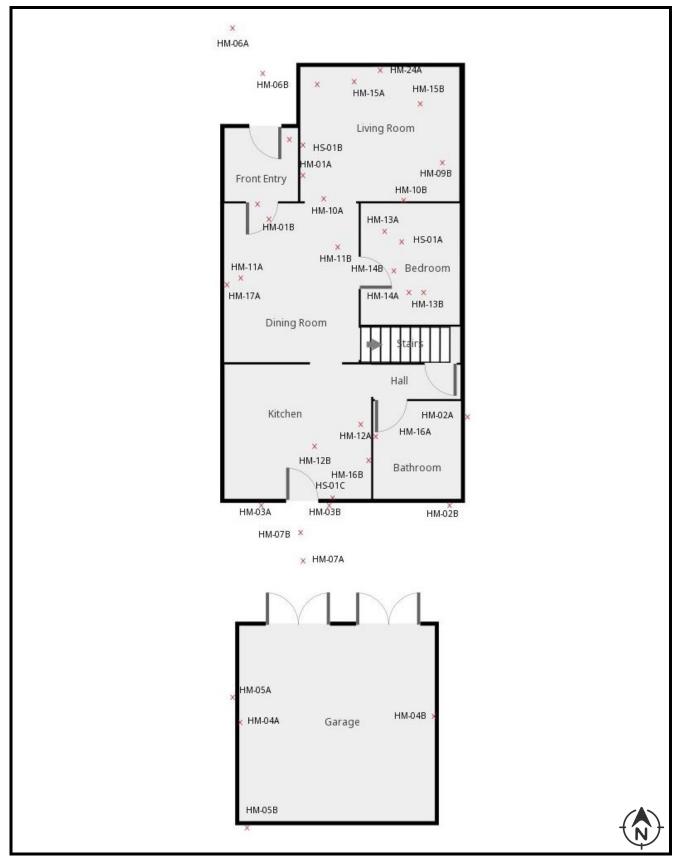
2ª 3 085		Date of Survey : 4-20-20 Lab Use Only Project : 412 Pearl St - Report	Contact Person: Aaron Paquet Contact Person: Aaron Paquet PC all samples with a detection of <5% ACM. pe Point Count PCM	Air     Paint     Soil       BioSIS     Other     Viable       OB     EPA Level II	Volume Area Results						RECEIVED	Received by: APR 2 3 2020	Date : APEX RESEARCH
89600	Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990 E-mail: apexresearch@chartermi.net Fax: 734-449-9991		FIUJCOL           148-8739         Contact           PLM EPA 600, PC all           tos: Bulk         x	Lead:BulkWipeMold:BulkTapeTEM:AHERA 7400Bulk/NOB	Material/Location	May Greek 12412 UPT	Celd Levalen mu	Shik Cout	white later whilely a	Green Bable Vinul	*1 C (a20)m	y: WS Relinquished by:	Hrwitzen Date:
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na 4 of 5	APEX	Lab Use Only Log-In Report	:onsulting.net E <5% ACM.	Viable	Results						APR 23 2020	APEX KESEARCH
	AI 48189 Phone: 734-449-9990 .net Fax: 734-449-9991	urvey: 420-23 412 Peurlst	Aaron Paquet labdata@redcec ith a detectio unt PCM	Air Paint Soil BioSIS Other 3 EPA Level II	Volume Area						Received by: Date :	
	nc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990 Е-mail: apexresearch@chartermi.net Fax: 734-449-9991	Date of Survey : Project : $\frac{1}{2}$	9     1.00000       9     Contac       M EPA 600, PC all       x     Wipe	Bulk Wipe Bulk Tape AHERA 7400 Bulk/NOB	Material/Location	ren Lituleur ML	Soleun !	Lindrem ML3		U Juny /	Relinquished by:	
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009760	APEX Research, I	1 1	Phone: (888) 449-4566 Turn Around T Rush 24 hour	48 hour 72 hour Other:	Lab ID # C	5					Relinquished by: Currel	Rev: 12/03 Work Forms: COC
								1	<u> </u>	<u> </u>	] – –	

896000 Red cedar Consulting PO Box 13216	<b>九C.</b> 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990 E-mail: apexresearch@chartermi.net Fax: 734-449-9991 Date of Survey: <u> </u>	hitmore Lake, MI 48189 Phone: 734-449-9990 rch@chartermi.net Fax: 734-449-9991 Date of Survey: <u> </u>	3,	Lab Use Only Log-In
City, St., Zip: Lansing, MI 48901 Phone: $(888) 449-4566$ Fax: $(888) 448-873$ <b>Turn Around Times:</b> (Circle One) PL Asbestos: Bulk Rush 24 hour 48 hour 72 hour Other: $5 D$ TrP All Samples TEM: AHE	9 M EPA X RA 7400	<pre># : Person: Aaron Pag amples with a detec Point Count Air Paint BioSISOthe B</pre>	Project #:	ACM.
Lab ID # Client ID # Mater 75-14m-234 Comuntur 23/3 vi 24/4 Perter 24/5 Perter 24/5 Perter 012 vi 012 v	Material/Location when Bsmt in 11 when clazing when 11	Volume	Area	Results
Relinquished by: Compare Weeceived by: WS Date : <u>4</u> - W2 - 70 Date : <u>4</u> - W2 Rev. 12/03 Work Forms: COC	Relinquished by:		Received by: API Date : APEX	RECEIVED APR 23-2020 APEX RESEARCH

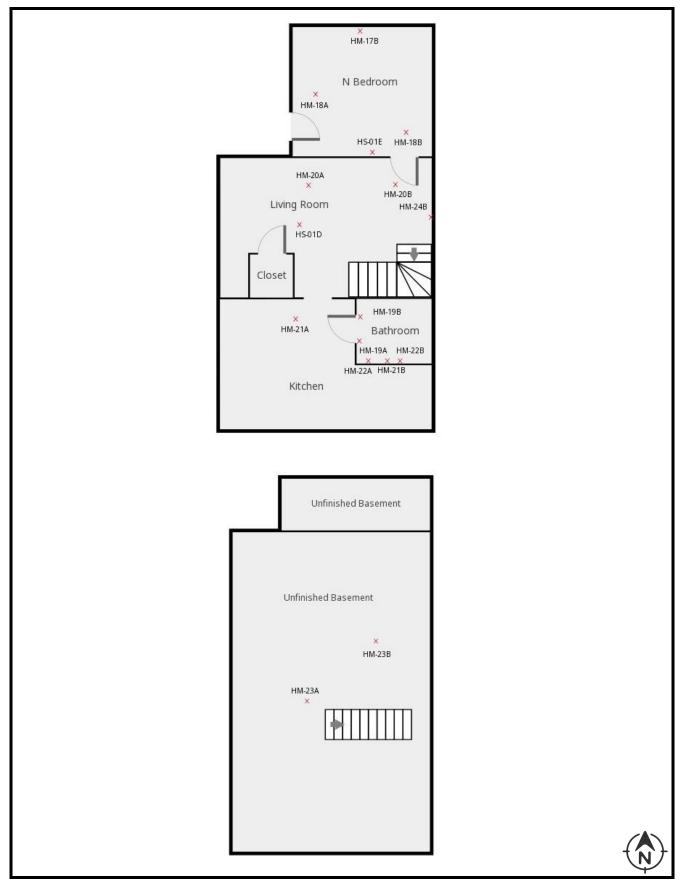
Attachment B Site Diagrams

Figure 1a Site Diagram



Asbestos Sample Locations 412 Pearl St. Lansing, MI





Note: Figure created by Red Cedar Consulting

Attachment C ACM Photos



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

BY: A. Paquet



PHOTO:2BY: A. PaquetSUBJECT:Wood Grain 12x12 VFT over Tan 9x9 VFT and Mastic

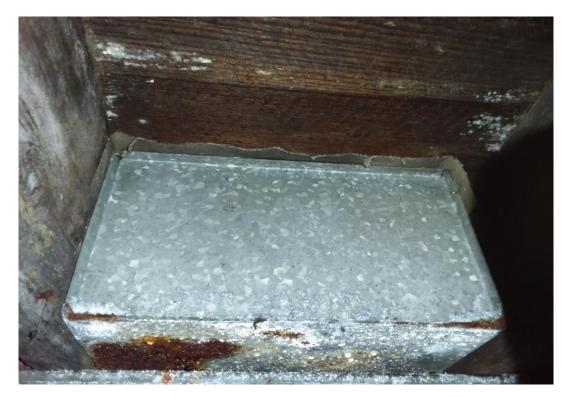


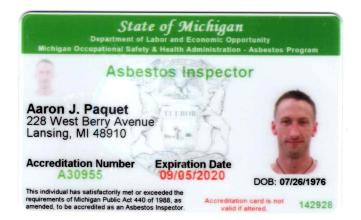
PHOTO:3SUBJECT:Typical HVAC Duct Boot Wrap

BY: A. Paquet



PHOTO: 4 SUBJECT: Typical Register HVAC BY: A. Paquet

Attachment D Inspector Certifications/ID's







Tables

Hazardous Materials Description and Location				
Location	Material Description	Quantity		
Garage	Automobile Tires	30		
Garage	1 Gallon Container Misc.	20		
Exterior	Fuel Oil Tank (mostly empty)	1		
Exterior	Automobile Tires	4		
Exterior	20 lb. Propane Tank	3		
Kitchen	Mercury Thermostat	1		
Basement	5 Gallon Container Misc.	20		
Basement	1 Gallon Container Misc.	10		
Basement	1 Quart Container Misc.	10		

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
PS-HM-01A	Asphalt Shingle	No	М	Category I	ND	Exterior	1,650 sq. ft.
PS-HM-01B	Asphalt Shingle	No	М	Category I	ND	Exterior	
PS-HM-02A	Vapor Barrier	Yes	М	Category II	ND	Exterior	1,950 sq. ft.
PS-HM-02B	Vapor Barrier	Yes	М	Category II	ND	Exterior	
PS-HM-03A	Fiberlap Siding	Yes	М	Category II	ND	Exterior	100 sq. ft.
PS-HM-03B	Fiberlap Siding	Yes	М	Category II	ND	Exterior	
PS-HM-04A	Asphalt Roofing	No	М	Category I	ND	Garage Exterior	400 sq. ft.
PS-HM-04B	Asphalt Roofing	No	М	Category I	ND	Garage Exterior	
PS-HM-05A	Asphalt Siding	No	М	Category I	ND	Garage Exterior	650 sq. ft.
PS-HM-05B	Asphalt Siding	No	М	Category I	ND	Garage Exterior	
PS-HM-06A	Concrete Front Walk	No	М	Category II	ND	Exterior	100 sq. ft.
PS-HM-06B	Concrete Front Walk	No	М	Category II	ND	Exterior	
PS-HM-07A	Concrete Rear Walk	No	М	Category II	ND	Exterior	75 sq. ft.
PS-HM-07B	Concrete Rear Walk	No	М	Category II	ND	Exterior	
PS-HM-08A	White Stone VFT	No	М	Category I	ND	Living	25 sq. ft.
PS-HM-08B	White Stone VFT	No	М	Category I	ND	Living	
PS-HM-09A	Burgundy 12x12 VFT	No	М	Category I	ND/ND	Living	25 sq. ft.
PS-HM-09B	Burgundy 12x12 VFT	No	М	Category I	ND/ND	Living	
PS-HM-10A	Beige Linoleum	No	М	Category I	ND/ND	Living	40 sq. ft.
PS-HM-10B	Beige Linoleum	No	М	Category I	ND/ND	Living	
PS-HM-11A	Brown 12x12 VFT ML	No	М	Category I	ND/ND/ND	Dining	145 sq. ft.
PS-HM-11B	Brown 12x12 VFT ML	No	М	Category I	ND/ND/ND	Dining	
PS-HM-12A	Wood Grain 12x12 VFT	No	М	Category I	ND/5% CH/5% CH	Kitchen	135 sq. ft.
PS-HM-12B	Wood Grain 12x12 VFT	No	М	Category I	NA	Kitchen	ACM
PS-HM-13A	Old Linoleum ML	No	М	Category I	ND/ND	Bedroom	80 sq. ft.
PS-HM-13B	Old Linoleum ML	No	М	Category I	ND/ND	Bedroom	
PS-HM-14A	Sink Coat	No	М	Category II	ND	Kitchen	1 Sink

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
PS-HM-14B	Sink Coat	No	М	Category II	ND	Kitchen	
PS-HM-15A	White 1x1 CT with Glue Pod	Yes	М	Category II	ND/ND	Living	145 sq. ft.
PS-HM-15B	White 1x1 CT with Glue Pod	Yes	М	Category II	ND/ND	Living	
PS-HM-16A	Green Brick Vinyl	No	М	Category I	ND	Bathroom Wall	300 sq. ft.
PS-HM-16B	Green Brick Vinyl	No	М	Category I	ND	Kitchen Wall	
PS-HM-17A	Glazing	Yes	М	Category II	ND	Dining	22 Windows
PS-HM-17B	Glazing	Yes	М	Category II	ND	2 <sup>nd</sup> Fl. N Bedroom	
PS-HM-18A	Dark Green Linoleum ML	No	М	Category I	ND	2 <sup>nd</sup> Fl. N Bedroom	160 sq. ft.
PS-HM-18B	Dark Green Linoleum ML	No	М	Category I	ND	2 <sup>nd</sup> Fl. N Bedroom	
PS-HM-19A	Old Linoleum	No	М	Category I	ND	Bathroom	45 sq. ft.
PS-HM-19B	Old Linoleum	No	М	Category I	ND	Bathroom	
PS-HM-20A	Green Linoleum ML	No	М	Category I	ND	Living	260 sq. ft.
PS-HM-20B	Green Linoleum ML	No	М	Category I	ND	Living	
PS-HM-21A	Drywall	No	М	Category II	ND/ND	Bathroom Wall	650 sq. ft.
PS-HM-21B	Drywall	No	М	Category II	ND/ND	Kitchen Ceiling	
PS-HM-22A	Wall Vinyl	No	М	Category II	ND	Bath Wall	150 sq. ft.
PS-HM-22B	Wall Vinyl	No	М	Category II	ND	Bath Wall	
PS-HM-23A	Concrete Bsmt.	No	М	Category II	ND	Basement	725 sq. ft.
PS-HM-23B	Concrete Bsmt.	No	М	Category II	ND	Basement	
PS-HM-24A	Patch Glazing	Yes	М	Category II	ND	Living	22 Windows
PS-HM-24B	Patch Glazing	Yes	М	Category II	ND	2 <sup>nd</sup> Fl. Living	
PS-HS-01A	Plaster	No	S	Category II	ND/ND	Bedroom Ceiling	4,650 sq. ft.
PS-HS-01B	Plaster	No	S	Category II	ND/ND	Living Wall	
PS-HS-01C	Plaster	No	S	Category II	ND/ND	Kitchen Wall	
PS-HS-01D	Plaster	No	S	Category II	ND/ND	Living Ceiling	
PS-HS-01E	Plaster	No	S	Category II	ND/ND	Bedroom Wall	

Notes:

Material Types

Abbreviations

# Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 412 Pearl St., Lansing, Michigan

М	= Miscellaneous building material	NQ	= Not quantified
TSI	= Thermal System Insulation	NA	= Not Analyzed
S	= Surfacing Material	ND	= Not detected. Laboratory result is less than 1 % asbestos
PC	= Point Count Analysis	lin. ft.	= linear feet
CH	= Chrysotile Asbestos	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 Presume	d Asbestos Containing Materials	, 412 Pearl St., Lansing, Michigan

Asbestos Containing Material Description and Location					
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity
Living (1 register, 10 sq. ft.) Dining (1 register, 10 sq. ft.) Kitchen (1 register, 10 sq. ft.) Bathroom (1 register, 15 sq. ft.) 2 <sup>nd</sup> Fl. Bedroom duct boot in Bsmt. 10 sq. ft.) 2 <sup>nd</sup> Fl. Dining duct boot in Bsmt. 10 sq. ft.) 2 <sup>nd</sup> Fl. Kitchen duct boot in Bsmt. 10 sq. ft.)	HVAC Duct Wrap	Yes	Fair	TSI	75 sq. ft.

#### Notes:

# Material Types

- M= Miscellaneous building materialTSI= Thermal System InsulationS= Surfacing Material

# Abbreviations

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

Interior - Asbestos Containing Materials				
Location	Material Description		Friable	Approx. Quantity
Kitchen	Wood Grain 12x12 VFT		No	135 sq. ft.
		Total		135 sq. ft.
Interior - Asbestos Containing Materials				
Location	<b>Material Description</b>		Friable	Approx. Quantity
Living (1 register, 10 sq. ft.) Dining (1 register, 10 sq. ft.) Kitchen (1 register, 10 sq. ft.) Bathroom (1 register, 15 sq. ft.) 2 <sup>nd</sup> Fl. Bedroom duct boot in Bsmt. 10 sq. ft.) 2 <sup>nd</sup> Fl. Dining duct boot in Bsmt. 10 sq. ft.) 2 <sup>nd</sup> Fl. Kitchen duct boot in Bsmt. 10 sq. ft.)	HVAC Duct Wrap		Yes	75 sq. ft.
		Total		75 sq. ft.

#### Table 4 - Summary of All Asbestos Containing Materials, 412 Pearl St., Lansing, Michigan

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.



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

May 11, 2020

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

# RE: Asbestos Containing Material and Hazardous Materials Inspection 636 S Mifflin Ave., Lansing, MI 48912 Parcel ID: 33-01-01-14-381-172

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 636 S Mifflin 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 .23-acre residential parcel which contains an approximate 858 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 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 bedroom on the first floor while the second floor contains three 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 March 13, 2020 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
- Fiberboard
- Vapor Barrier
- 12"x12" Vinyl Tile
- 1'x1' Ceiling Tile
- Grout/Backerboard
- Drywall & Compound
- Glazing
- Concrete
- Membrane Roofing
- Texture

Red Cedar staff collected thirty-five 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-five samples is included as Attachment A.

#### **Hazardous Materials Inspection**

On March 13, 2020 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-five 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 roof 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 250 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 roofing materials 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:

• 1-Gallon Container Misc. Paint

# **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

Raron Poquet

Aaron Paquet Michigan/EPA Certified Asbestos Building Inspector (A30955, Exp. 9-5-2020)

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# Attachment A

APEX Research Laboratory Analytical Results

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 01 Cust. #: MA-HM-01A Material: Cored Shingle Roof Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 25% Other - 75%
Lab ID #: 89317 - 02 Cust. #: MA-HM-01B Material: Cored Shingle Roof Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Other - 70%
Lab ID #: 89317 - 03 Cust. #: MA-HM-02A Material: Fiberboard Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 75% Other - 25%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 04 Cust. #: MA-HM-02B Material: Fiberboard Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 75% Other - 25%
Lab ID #: 89317 - 05 Cust. #: MA-HM-03A Material: Tan Vapor Barrier Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 89317 - 06 Cust. #: MA-HM-03B Material: Tan Vapor Barrier Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 07 Cust. #: MA-HM-04A Material: Black Vapor Barrier Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 89317 - 08 Cust. #: MA-HM-04B Material: Black Vapor Barrier Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 89317 - 09 Cust. #: MA-HM-05A Material: Brown Vapor Barrier Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 30% Other - 70%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 10 Cust. #: MA-HM-05B Material: Brown Vapor Barrier Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 30% Other - 70%
Lab ID #: 89317 - 11 Cust. #: MA-HM-06A Material: 12x12 Grey VFT Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 11a Cust. #: MA-HM-06A Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Keport 10: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 12 Cust. #: MA-HM-06B Material: 12x12 Grey VFT Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 12a Cust. #: MA-HM-06B Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 13 Cust. #: MA-HM-07A Material: 12x12 Grey Mottled VFT Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 13a Cust. #: MA-HM-07A Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 13b Cust. #: MA-HM-07A Material: Linoleum Location: Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 25% Fiberglass - 5% Other - 70%
Lab ID #: 89317 - 14 Cust. #: MA-HM-07B Material: 12x12 Grey Mottled VFT Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 14a Cust. #: MA-HM-07B Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 14b Cust. #: MA-HM-07B Material: Linoleum Location: Appearance: beige,fibrous,nonhomogenous Layer: 3 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 25% Fiberglass - 5% Other - 70%
Lab ID #: 89317 - 15 Cust. #: MA-HM-08A Material: Ceramic Tile Location: Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Keport 10: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 15a Cust. #: MA-HM-08A Material: Grout Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 16 Cust. #: MA-HM-08B Material: Ceramic Tile Location: Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 16a Cust. #: MA-HM-08B Material: Grout Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 17 Cust. #: MA-HM-09A Material: 1x1 White Ceiling Tile Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 75% Other - 25%
Lab ID #: 89317 - 18 Cust. #: MA-HM-09B Material: 1x1 White Ceiling Tile Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 75% Other - 25%
Lab ID #: 89317 - 19 Cust. #: MA-HM-10A Material: Ceiling Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 15% Other - 85%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 20 Cust. #: MA-HM-10B Material: Ceiling Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 15% Other - 85%
Lab ID #: 89317 - 21 Cust. #: MA-HM-11A Material: Walls Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 15% Other - 85%
Lab ID #: 89317 - 21a Cust. #: MA-HM-11A Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 22 Cust. #: MA-HM-11B Material: Walls Drywall Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 15% Other - 85%
Lab ID #: 89317 - 22a Cust. #: MA-HM-11B Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 23 Cust. #: MA-HM-12A Material: Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Keport 10: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 24 Cust. #: MA-HM-12B Material: Window Glazing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 25 Cust. #: MA-HM-13A Material: Basement Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 26 Cust. #: MA-HM-13B Material: Basement Floor Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 27 Cust. #: MA-HM-14A Material: Black Roofing Shingle Location: Appearance: black,fibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%
Lab ID #: 89317 - 27a Cust. #: MA-HM-14A Material: Tar Location: Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>YES</b> Chrysotile - 10%	Other - 90%
Lab ID #: 89317 - 28 Cust. #: MA-HM-14B Material: Black Roofing Shingle Location: Appearance: black,fibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



<b>Report To:</b> Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 28a Cust. #: MA-HM-14B Material: Tar	Asbestos Present:	
Location: Appearance: Layer: 2 of 2	NOT ANALYZED	
Lab ID #: 89317 - 29 Cust. #: MA-HM-15A Material: Membrane Roofing Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%
Lab ID #: 89317 - 30 Cust. #: MA-HM-15B Material: Membrane Roofing Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 31 Cust. #: MA-HM-16A Material: Concrete Pad Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 32 Cust. #: MA-HM-16B Material: Concrete Pad Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 33 Cust. #: MA-HS-01A Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 636 S. Mifflin Ave.



Keport 10: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89317Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/20/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89317 - 34 Cust. #: MA-HS-01B Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89317 - 35 Cust. #: MA-HS-01C Material: Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
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



		# xaqA	89317	44
AFEAF	AFEA Kesearch, INC. 11054 Hi Tech Drive E-mail: apexr	C. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990 E-mail: apexresearch@chartermi.net Fax: 734-449-9991	Phone: 734-449-9990 Fax: 734-449-9991	APEX
Client Name:	Red Cedar Consulting	Date of Survey: 3-13-20	: 3-13.20	Lab Use Only Log-In
Address:	PO Box 13216	Project: 634	1 S. Jel Main	Report
City, St., Zip:	Lansing, MI 48901			
Phone: (888) 449-4566	9-4566 Fax: (888) 448-8739	Contact Person:	. Aaron Paquet	
<b>Turn Arou</b>	Turn Around Times: (Circle One) PLM EPA 60	labdata@redcedarconsulting.net 600, PC all samples with a detection of ${<}5\%$ ACM.	labdata@redceda with a detection	irconsulting.net of <5% ACM.
	Asbestos: Bulk x	Wipe Point Count	punt PCM	
	Lead: Bulk	Wipe Air	Paint So	Soil
48 hour 72 hour	Mold: Bulk	Tape BioSIS	Other	Viable
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APEX Research	Lab Use Only Log-In Report	onsulting.net : <5% ACM. 		Area Results	10:38:28
ge     Z af A       Phone: 734-449-9990       Fax: 734-449-9991	izo liffen be	Paquet a@redcedarcon etection of < PCM t Soil	Area	Area Received by: 24	03/16/20
	Date of Survey : <u>3./3-22</u> Project : <u>636 5. Mij</u> l Project # .	Contact Person:       Aaron Paquet         Contact Person:       Tabdata@redcedarconsulting.net         600, PC all samples with a detection of <5% ACM.		Volume	
Ch, Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 E-mail: apexresearch@chartermi.net	ing	148-8739 PLM EPA tos: Bulk x Bulk Bulk	TEM: AHERA 7400	ID #     Material/Location       - OEB     /2X/2 Unit VET       - DEB     /2X/3 Unit VET       - DEA     /2       - DEA     /2 <td></td>	
APEX Research, In	Red Cedar PO Box 132	CIUY, DL., LAID.       LAIDSLING, M1 48901         Phone:       (888) 449-4566       Fax : (888) 4 <b>Turn Around TimeS:</b> (Circle One)         Rush       24 hour         48 hour       72 hour		Lab ID #Client ID # $12$ $MA \cdot HH - 06$ $17$ $07$ $17$ $07$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $07$ $17$ $07$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$ $06$ $17$	

2 4 4 49-9990 АРЕХ АРЕХ АРЕХ АРЕХ АРЕХ	Lab Use Only Log-In Report	t Person: Aaron Paquet L Person: Aaron Paquet samples with a detection of <5% ACM. Point Count PCM	Soil	Area Results						Received by: Share Jun Received @ APEX Research	03/16/20 10:36:20
#       Bgg 317       Page         A       B       B       B         C.       11054 Hi Tech Drive, Whitmore Lake, MI 48189       Phone: 734-449-9990         E-mail:       apexresearch@chartermi.net       Fax: 734-449-9991	Date of Survey : <u>3-13-22</u> Project : <u>636 5. migle</u>	Contact Person: Aaron Paquet PC all samples with a detection pe Point Count PCM	Air     Paint       BioSIS     Other       Bulk/NOB     EPA Level II	Volume		É					
l l		148-8739 PLM EPA 600, tos: Bulk × Wi	Lead: Bulk Wipe Wipe Mold: Bulk Tape TEM: AHERA 7400	Material/Location	Window Blaging	Basement floor Concrete	t	Amorte Fed	Septered Surfacing	y: $UPS$ Relinquished by: 3 - 1 3 - 22 Date :	
APEX Research, I	ы m	und Tim	(TTP) All Samples	Client ID #	MA-44-12A	, 13A (3B	14/2 1/4/8	4C) 831	W W 168 MA.HS-01A	Relinquished by: ALL Mether Received by: Date: 3 - 13 - 25	The second s
APEX I	Client Name: Address:	Phone: (888) 4 (888) 4 <b>Turn Aro</b> Rush 24 hour	ur Sde	Lab ID #	42 52	26	42 42	M M C	32	Relinquished by: ALA	Rev: 12/03

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<b>8931 4</b> itmore Lake, MI 48189 Phone: 734-4 ch@chartermi.net Fax: 734-4	rvey: <u>3</u> rvey: <u>3</u> rson: <u>Aan</u> rson: <u>Aan</u> rson: <u>Aan</u> bles with oint Count ir BPA BPA BPA	
APEX Research, Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 E-mail: apexresearch@chartermi.net	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Research,	Client Name: Red Cedar Consulting Address: PO Box 13216 City, St., Zip: Lansing, MI 48901 Phone: (B88) 449-4566 Fax: (B88) 449-66 Phone: (B88) 449-4566 Fax: (B88) 449-66 Phone: (B88) 449-4566 Fax: (B88) 449-66 Asbest Rush 24 hour 18 hour 72 hour About 72 hour Mold. Dhort $5dd$ The All Samples Tead. The All Samples Tead. Mold. The All Samples Tead. Mold. The All Samples Tead. Mold. The All Samples Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Mold. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. Tead. T	Retinquished by: Active Received by: Date: <u>S-13-25</u> Date: <u>S</u> Date: <u>S</u>
APEX I	Client Name: Red Ceo Address: PO BOX City, St., Zip: Lansin Phone: (888) 449-4566 <b>Turn Around</b> Rush 24 hour 48 hour 72 hour Other: Strong Th 35 1 Lab ID # Cli	Retinquished by: 154

Attachment B Site Diagrams



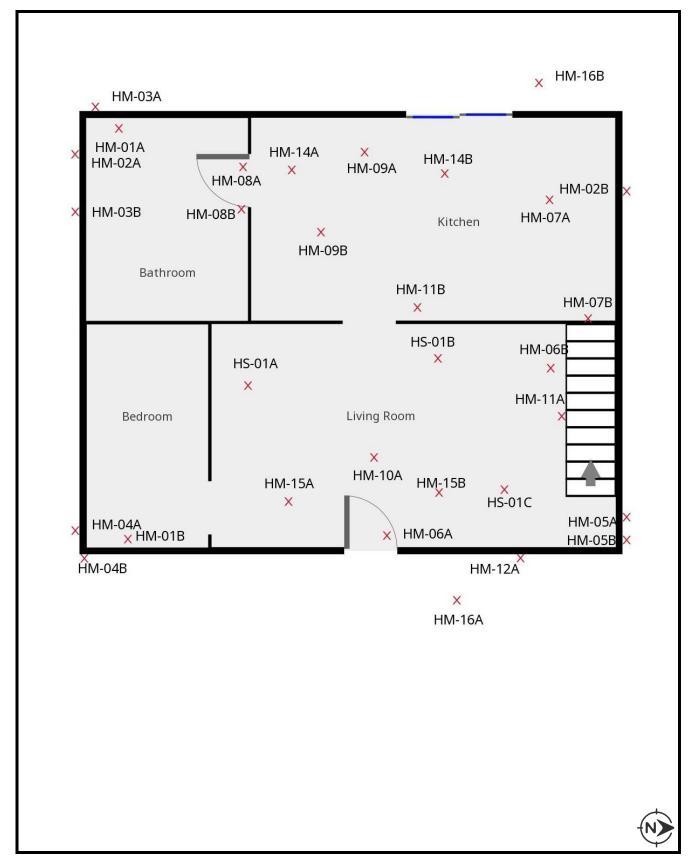
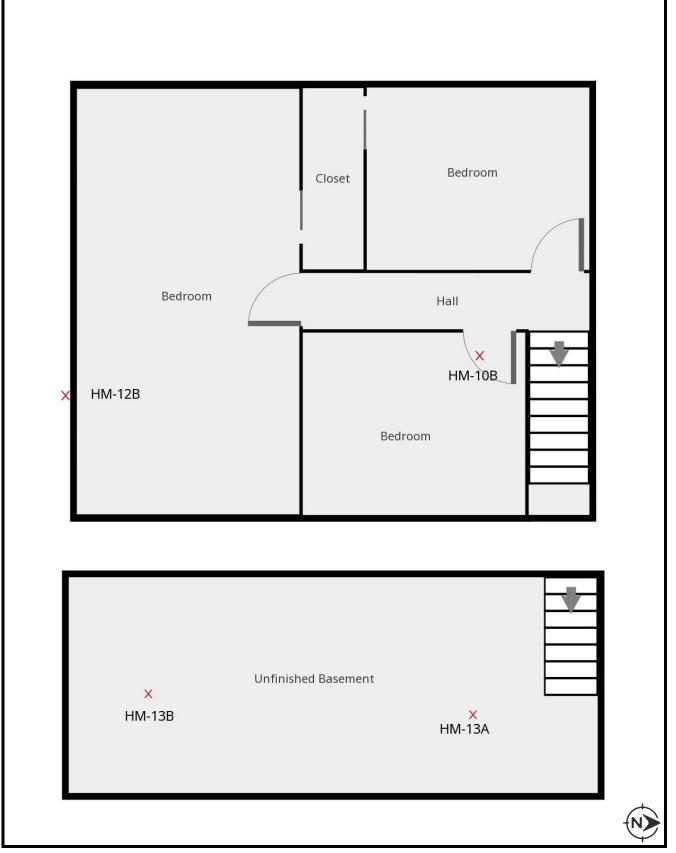


Figure 1b Site Diagram



Note: Figure created by Red Cedar Consulting

Asbestos Sample Locations 636 S Mifflin Ave. Lansing, MI

-Not To Scale-

Attachment C ACM Photos



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

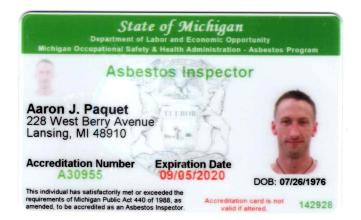
BY: A. Paquet



PHOTO: 2 SUBJECT: View of ACM Roofing/Tar (2nd Fl. W Dormer)

BY: A. Paquet

Attachment D Inspector Certifications/ID's







Tables

### Table 1 - Summary of Hazardous Materials, 636 S Mifflin Ave., Lansing, Michigan

Hazardous Materials Description and Location					
Location Material Description Quantit					
Basement	1-Gallon Container Misc. Paint	4			

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MA-HM-01A	Shingle Roof	No	М	Category I	ND	Exterior	1,350 sq. ft.
MA-HM-01B	Shingle Roof	No	М	Category I	ND	Exterior	
MA-HM-02A	Fiberboard	Yes	М	Category II	ND	Exterior	975 sq. ft.
MA-HM-02B	Fiberboard	Yes	М	Category II	ND	Exterior	
MA-HM-03A	Tan Vapor Barrier	Yes	М	Category II	ND	Exterior	450 sq. ft.
MA-HM-03B	Tan Vapor Barrier	Yes	М	Category II	ND	Exterior	
MA-HM-04A	Black Vapor Barrier	Yes	М	Category II	ND	Exterior	250 sq. ft.
MA-HM-04B	Black Vapor Barrier	Yes	М	Category II	ND	Exterior	
MA-HM-05A	Brown Vapor Barrier	Yes	М	Category II	ND	Exterior	400 sq. ft.
MA-HM-05B	Brown Vapor Barrier	Yes	М	Category II	ND	Exterior	
MA-HM-06A	12x12 Gray VFT	No	М	Category I	ND/ND	Living	50 sq. ft.
MA-HM-06B	12x12 Gray VFT	No	М	Category I	ND/ND	Living	
MA-HM-07A	12x12 Gray Mottled VFT	No	М	Category I	ND/ND/ND	Kitchen	180 sq. ft.
MA-HM-07B	12x12 Gray Mottled VFT	No	М	Category I	ND/ND/ND	Kitchen	
MA-HM-08A	Ceramic Tile/Layered	No	М	Category II	ND/ND	Bathroom	75 sq. ft.
MA-HM-08B	Ceramic Tile/Layered	No	М	Category II	ND/ND	Bathroom	
MA-HM-09A	1x1 White C. T.	Yes	М	Category II	ND	Kitchen	180 sq. ft.
MA-HM-09A	1x1 White C.T.	Yes	М	Category II	ND	Kitchen	
MA-HM-10A	Ceiling Drywall & Compound	No	М	Category II	ND	Living Ceiling	850 sq. ft.
MA-HM-10B	Ceiling Drywall & Compound	No	М	Category II	ND	2 <sup>nd</sup> Fl. NE Bedroom Ceiling	
MA-HM-11A	Wall Drywall & Compound	No	М	Category II	ND/ND	Living Wall	2,600 sq. ft.
MA-HM-11B	Wall Drywall & Compound	No	М	Category II	ND/ND	Kitchen Wall	
MA-HM-12A	Window Glazing	Yes	М	Category II	ND	Living	9 Windows
MA-HM-12B	Window Glazing	Yes	М	Category II	ND	2 <sup>nd</sup> Fl. S Bedroom	
MA-HM-13A	Basement Floor Concrete	No	М	Category II	ND	Basement	572 sq. ft.
MA-HM-13B	Basement Floor Concrete	No	М	Category II	ND	Basement	
MA-HM-14A	Black Asphalt Roofing	No	М	Category I	ND/10% CH	Exterior	250 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 636 S Mifflin Ave., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
MA-HM-14B	Black Asphalt Roofing	No	М	Category I	ND/NA	Exterior	ACM
MA-HM-15A	Membrane Roofing	No	М	Category I	ND	Exterior	250 sq. ft.
MA-HM-15B	Membrane Roofing	No	М	Category I	ND	Exterior	
MA-HM-16A	Concrete Pad	No	М	Category II	ND	Exterior	60 sq. ft.
MA-HM-16B	Concrete Pad	No	М	Category II	ND	Exterior	
MA-HS-01A	Textured Surfacing	No	S	Category II	ND	Living Ceiling	160 sq. ft.
MA-HS-01B	Textured Surfacing	No	S	Category II	ND	Living Ceiling	
MA-HS-01C	Textured Surfacing	No	S	Category II	ND	Living Ceiling	

#### 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, 636 S Mifflin 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 TypesAbbreviationsM= Miscellaneous building materiallin. ft.= linear feetTSI= Thermal System Insulationsq. ft.= square feetS= Surfacing Materialsq. ft.= square feet

#### Table 4 - Summary of All Asbestos Containing Materials, 636 S Mifflin Ave., Lansing, Michigan

Exterior - Asbestos Containing Materials			
Location	Material Description	Friable	Approx. Quantity
Building Roof (2 <sup>nd</sup> Fl. W Dormer)	Black Asphalt Roofing (2 <sup>nd</sup> Layer (Tar))	No	250 sq. ft.
	Total		250 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.



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

May 11, 2020

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

#### RE: Asbestos Containing Material and Hazardous Materials Inspection 607 Helen St., Lansing, MI 48912 Parcel ID: 33-01-01-16-478-051

Dear Mr. Andrick:

Red Cedar Consulting has completed an asbestos-containing material (ACM) inspection at 607 Helen St., 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 .06-acre residential parcel which contains an approximate 685 square foot residential building (the Building) constructed in 1907. The Building was constructed on a concrete basement with two aboveground floors. The exterior walls of the Building were finished with vinyl 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, bedroom and front entry on the first floor while the second floor contains 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 March 13, 2020 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
- 12"x12" Vinyl Tile
- 1'x1' Ceiling Tile
- 2'x4' Ceiling Tile
- 2'x2' Ceiling Tile
- Linoleum
- Caulk
- Concrete
- Drywall & Compound
- Glazing
- Flashing
- Plaster
- Textured Surfacing

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

#### **Hazardous Materials Inspection**

On March 13, 2020 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-five 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

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

A window glazing sample collected from a window in the 2<sup>nd</sup> Fl. N. Bedroom was found to contain up to 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:

- Bath (1 window 24" wide x 26" tall)
- 2nd Fl. N Bedroom (1 window 32" wide x 61" tall)
- 2nd Fl. S Bedroom (1 window 32" wide x 61" tall)
- Basement (2 windows 30" wide x 12" tall)

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:

- Kitchen (1 register, 5 sq. ft.)
- HVAC wrap on 6" diam. Ductwork, 10 sq. ft.)

#### **Category I ACM**

Roof 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 15 sq. ft. of flashing 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**

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.

- Kitchen (1 register, 5 sq. ft.)
- HVAC wrap on 6" diam. Ductwork, 10 sq. ft.)

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:

- Bath (1 window 24" wide x 26" tall)
- 2nd Fl. N Bedroom (1 window 32" wide x 61" tall)
- 2nd Fl. S Bedroom (1 window 32" wide x 61" tall)
- Basement (2 windows 30" wide x 12" tall)

Please note: Other different sized windows are located throughout the Building but these windows were assessed and found to be constructed either without window glazing or were sampled and found to not contain asbestos and therefore are not required to be removed.

The Category I roof flashing materials 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:

- Television (4)
- 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

Raron Poquet

Aaron Paquet Michigan/EPA Certified Asbestos Building Inspector (A30955, Exp. 9-5-2020)

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### Attachment A

APEX Research Laboratory Analytical Results

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 01 Cust. #: HS-HM-01A Material: Black Shingle Roofing Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 89318 - 02 Cust. #: HS-HM-01B Material: Black Shingle Roofing Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 89318 - 03 Cust. #: HS-HM-02A Material: Vapor Barrier Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 95% Other - 5%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 04 Cust. #: HS-HM-02B Material: Vapor Barrier Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 89318 - 05 Cust. #: HS-HM-03A Material: 12x12 Layer Parkay VFT Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 05a Cust. #: HS-HM-03A Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 05b Cust. #: HS-HM-03A Material: Linoleum Location: Appearance: beige,fibrous,homogenous Layer: 3 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 25% Fiberglass - 5% Other - 70%
Lab ID #: 89318 - 06 Cust. #: HS-HM-03B Material: 12x12 Layer Parkay VFT Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 06a Cust. #: HS-HM-03B Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 06b Cust. #: HS-HM-03B Material: Linoleum Location: Appearance: beige,fibrous,homogenous Layer: 3 of 3	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 25% Fiberglass - 5% Other - 70%
Lab ID #: 89318 - 07 Cust. #: HS-HM-04A Material: 12x12 Layer Green VFT Location: Appearance: green,nonfibrous,homogenous Layer: 1 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 07a Cust. #: HS-HM-04A Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 07b Cust. #: HS-HM-04A Material: Floor Tile Location: Appearance: green,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 07c Cust. #: HS-HM-04A Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 4 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 08 Cust. #: HS-HM-04B Material: 12x12 Layer Green VFT Location: Appearance: green,nonfibrous,homogenous Layer: 1 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 08a Cust. #: HS-HM-04B Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 08b Cust. #: HS-HM-04B Material: Floor Tile Location: Appearance: green,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 08c Cust. #: HS-HM-04B Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 4 of 4	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 09 Cust. #: HS-HM-05A Material: 1x1 White Ceiling Tile Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 89318 - 10 Cust. #: HS-HM-05B Material: 1x1 White Ceiling Tile Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 89318 - 11 Cust. #: HS-HM-06A Material: 2x4 White CT w/ Pinholes/Fissures Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Mineral Wool - 2% Fiberglass - 25% Other - 33%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 12 Cust. #: HS-HM-06B Material: 2x4 White CT w/ Pinholes/Fissures Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Mineral Wool - 2% Fiberglass - 25% Other - 33%
Lab ID #: 89318 - 13 Cust. #: HS-HM-07A Material: 2x2 White Textured Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Fiberglass - 45% Other - 25%
Lab ID #: 89318 - 14 Cust. #: HS-HM-07B Material: 2x2 White Textured Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Fiberglass - 45% Other - 25%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 15 Cust. #: HS-HM-08A Material: Drywall Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 89318 - 15a Cust. #: HS-HM-08A Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 16 Cust. #: HS-HM-08B Material: Drywall Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> 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, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Keport 10:Mr. Aaron PaquetRed Cedar ConsultingP.O. Box 13216Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 16a Cust. #: HS-HM-08B Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 17 Cust. #: HS-HM-09A Material: Window Glazing Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 4.00% POINT COUNT RESULT	Other - 96.00%
Lab ID #: 89318 - 18 Cust. #: HS-HM-09B Material: Window Glazing Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
For Lougard Complex cock component will be analyzed and report	- d - concentraliza	

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

Robert T. Letarte Jr., Laboratory Director



Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 19 Cust. #: HS-HM-10A Material: 12x12 Black VFT Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 19a Cust. #: HS-HM-10A Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 20 Cust. #: HS-HM-10B Material: 12x12 Black VFT Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 20a Cust. #: HS-HM-10B Material: Mastic Location: Appearance: clear,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 21 Cust. #: HS-HM-11A Material: Grey Linoleum Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%
Lab ID #: 89318 - 22 Cust. #: HS-HM-11B Material: Grey Linoleum Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 23 Cust. #: HS-HM-12A Material: Window Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 24 Cust. #: HS-HM-12B Material: Window Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 25 Cust. #: HS-HM-13A Material: Shed Black Roofing Shingle Location: Appearance: black,fibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> 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, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 25a Cust. #: HS-HM-13A Material: Roofing Location: Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 89318 - 26 Cust. #: HS-HM-13B Material: Shed Black Roofing Shingle Location: Appearance: black,fibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 15% Other - 85%
Lab ID #: 89318 - 26a Cust. #: HS-HM-13B Material: Roofing Location: Appearance: black,fibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 27 Cust. #: HS-HM-14A Material: Roof Flashing Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>YES</b> Chrysotile - 10%	Other - 90%
Lab ID #: 89318 - 28 Cust. #: HS-HM-14B Material: Roof Flashing Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 89318 - 29 Cust. #: HS-HM-15A Material: Rear Pad Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report 10: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 30 Cust. #: HS-HM-15B Material: Rear Pad Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 31 Cust. #: HS-HM-16A Material: Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 32 Cust. #: HS-HM-16B Material: Driveway Concrete Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 33 Cust. #: HS-HS-01A Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 89318 - 34 Cust. #: HS-HS-01B Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 89318 - 35 Cust. #: HS-HS-01C Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Hair - 2% Other - 98%

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Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 36 Cust. #: HS-HS-01D Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 89318 - 37 Cust. #: HS-HS-01E Material: Plaster Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 89318 - 38 Cust. #: HS-HS-02A Material: Stairway Textured Surfacing Location: Appearance: white,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 39 Cust. #: HS-HS-02B Material: Stairway Textured Surfacing Location: Appearance: white,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 40 Cust. #: HS-HS-02C Material: Stairway Textured Surfacing Location: Appearance: white,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 41 Cust. #: HS-HS-03A Material: Bath Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 42 Cust. #: HS-HS-03B Material: Bath Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 43 Cust. #: HS-HS-03C Material: Bath Textured Surfacing Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 89318 - 44 Cust. #: HS-HM-17A Material: Concrete Location: Basement Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

Test Method, Polarized Light Microscopy (PLM)

Project : 607 Helen St.



Report To: Mr. Aaron Paquet Red Cedar Consulting P.O. Box 13216 Lansing, MI 48901		ARI Report #20-89318Date Collected:03/13/20Date Received:03/16/20Date Analyzed:03/23/20Date Reported:03/23/20
Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 89318 - 45 Cust. #: HS-HM-17B Material: Concrete Location: Basement Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> 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



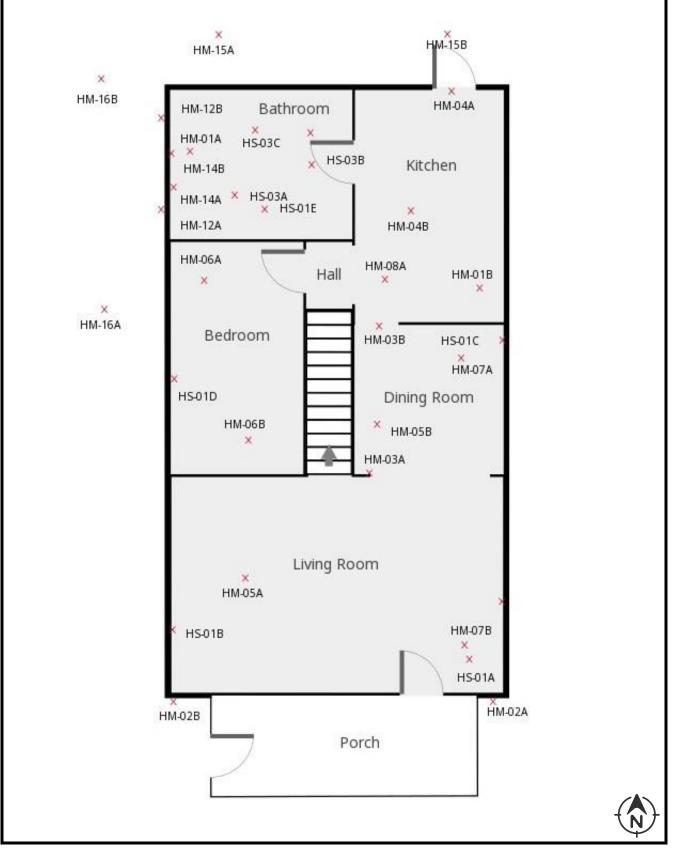
PEX Research, Inc. 1034 II Tech Dive, Whimmer Lake, MI 43189     Phone: 734.409.0901       Famili, agreeneeneidig-laneruninet     Fax: 734.409.0901       Frindi, agreeneeneidig-laneruninet     Fax: 734.409.0901       Anne:     3ed Codar Consoliting     Date of Survey: 3.73       \$5.1, Zip:     250 Sxi 1315     Project: 5.07 Lileto       fress:     29 Sxi 1315     Project: 5.07 Lileto       (151, Zip:     2818.419-556     Fax: (688)       (151, Zip:     2818.419-556     Fax: (688)       (151, Zip:     2818.419-556     Fax: (688)       (151, Arround Times; (Circle One)     Pin No. Cont     Project #:       (151, Zip:     2810.419-556     Fax: (688)       (151, Marting, MI 4587)     Contact Person: Arron     Project #:       (151, Marting, MI 4587)     Contact Person: Arron     Project #:       (151, Marting, MI 4587)     Project #:     Project #:       (151, Marting, MI 4587)     Project #:     Project #:       (151, Marting, MI 4587)     Project #:     Project #:       (151, Marting, MI 4588)     Project #:     Project #:       (151, Marting, Mart	PEX Rescarch, Inc. 11034 Hi Tech Drive, Withmore Lake, MI 48189 Phone: 734 449-9991 E-mail: grout consulting     E-mail: grout consulting     E-mail: grout consulting       art Name:     red codar Consulting     Date of Survey: 2-7-2-     Project: 2-07 (100-4)       fress:     red codar Consulting     Date of Survey: 2-7-2-       fress:     red codar Consulting     Date of Survey: 2-7-2-       fress:     red codar Consulting     Project: 2-07 (100-4)       ic:     red codar Consulting     Amont Count       ic:     red codar Consulting     Project: 2-07 (100-4)       ic:     red codar Consulting     Amont Count       ic:     red codar Consult     red codar Consult       ic:     red codar Codar Consult     Project: 2-07 (100-4)       ic:     red codar Codar Consult     red codar Codar		Yot			
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Project : $e^{2}$ Box 13216       Project : $e^{2}$ Afgeories         7, St., Zip:       Lansing, MI 48901       Project :       Project : $e^{2}$ Afgeories         nc:       (888) 449-4566       Fax : (888) 449-4566       Fax : (888) 449-456       Fax : (388) 449-456       Project : $e^{2}$ Project # :         nc:       (888) 449-4566       Fax : (388) 449-679       Contact Person: Aaron Ba $adetaer         ur       Around Times: (circle One)       PLM EPA 600, PC all samples with a deta       adetaer         ur       7 hour       Lead: Bulk       Wipe       Air       Paint         ur       72 hour       Ladit Bulk       Tape       BiolSis       O         24 hour       Tape       Biolk       Tape       Biolk       Air       Paint         ur       72 hour       Ladit Bulk       Mide       Bulk       Tape       Biolk       Air       Paint         3 e^{2} $	Project :       EQ Box 13216       Project :       Contact Person:       Anon Bauk       Project :       Contact Person:       Anon Bauk       Project :       Contact Person:       Anon Bauk       Anon Bauk       Anon Bauk       Anon Bauk       Anon Count       Distribution       Distrimand bits <thdistribution< th=""></thdistribution<>		3.20	Lab Use Only Log-In		
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3014	APEX	Lab Use Only Log-In	arconsulting.net 1 of <5% ACM.	Soil	a Results	Steve Steve	Received @ APEX Research 3/16/20 10:38:28
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	APEX Research, Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990 $_{\rm E-mail:\ apextresearch@chartermi.net}$ Fax: 734-449-9991		38) 448-8739 One) PLM EPA Asbestos: Bulk X	Lead: Bulk Wipe Mold: Bulk Tape TEM: AHERA 7400 Bulk/NOB	Material/Location	Dent Carlon Sinder Carlo Med Eleck Foring Ming 	-1 <b>3 - 2</b> 5 Date :
	Research,	c Col 3216	City, St., Zip: Lansing, MI 48901 Phone: (888) 449-4566 Fax : (88 <b>Turn Around Times:</b> (Circle	(TTP) All Samples	Client ID #	Llient ID # #5- <i>H17-12.A</i> #5- <i>H17-12.A</i> 13.B 13.B 13.B 13.B 13.B 13.B 13.B 13.B	Date : 3
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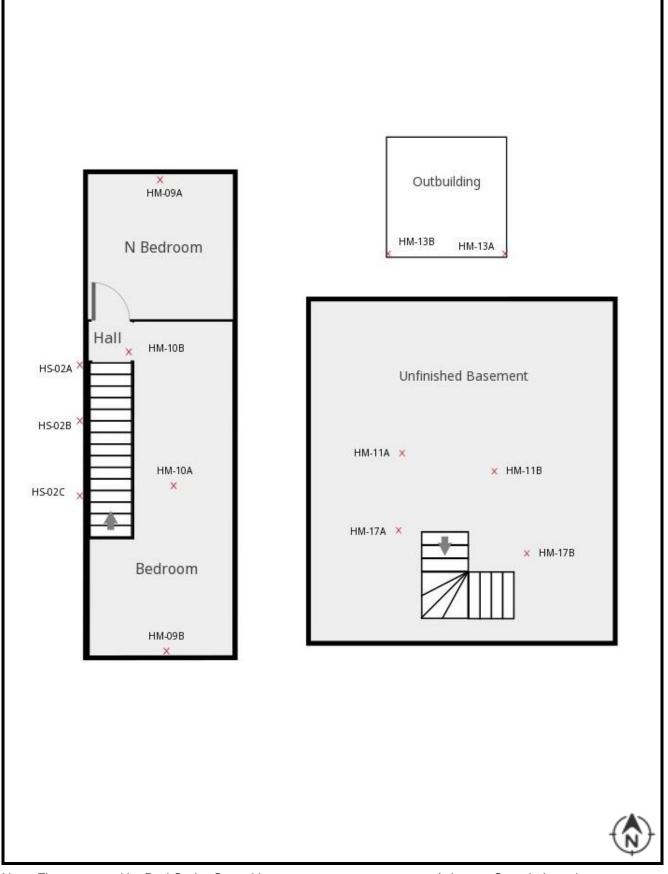
	4.4.4
APEX Research, Inc. 11054 Hi Tech Drive, Whitmore Lake, MI 48189 Phone: 734-449-9990 E-mail: apexresearch@chartermi.net Fax: 734-449-9991	Phone: 734-449-9990 Fax: 734-449-9991
Client Name: Red Cedar Consulting Date of Survey : 3.13-23	-13-20 Lab Use Only Log-In
PO Box 13216	
Zip: Lansing, MI 48901 Project # :	
49-4566 Fax: (888) 448-8739 Contact Person:	Aaron Paquet
Around Times: (Circle One) PLM EPA 600, PC all	
Asbestos: Bulk X Wipe Point Count Rush 24 hour	PCM
	Paint Soil
/2 hour	Other Viable
Other: Just [IIP] All Samples TEM: AHERA 7400 Bulk/NOB EP	EPA Level II
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Attachment B Site Diagrams

Figure 1a Site Diagram

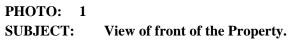


Asbestos Sample Locations 607 Helen St. Lansing, MI



Attachment C ACM Photos





BY: A. Paquet



PHOTO: 2 SUBJECT: Typical Window Glazing

BY: A. Paquet



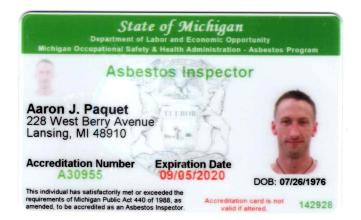
PHOTO: 3 SUBJECT: Roof Flashing BY: A. Paquet



PHOTO: 4 SUBJECT: Typical HVAC Register

BY: A. Paquet

Attachment D Inspector Certifications/ID's







Tables

Hazardous Materials Description and Location					
Location Material Description Quantity					
Living Room	Television	1			
2 <sup>nd</sup> Fl. Landing	2 <sup>nd</sup> Fl. Landing Smoke Detector				
2 <sup>nd</sup> Fl. N Bedroom	Television	2			
2 <sup>nd</sup> Fl. S Bedroom	Television	1			

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
HS-HM-01A	Black Shingle Roofing	No	М	Category I	ND	Exterior	1,250 sq. ft.
HS-HM-01B	Black Shingle Roofing	No	М	Category I	ND	Exterior	
HS-HM-02A	Vapor Barrier	Yes	М	Category II	ND	Exterior	950 sq. ft.
HS-HM-02B	Vapor Barrier	Yes	М	Category II	ND	Exterior	
HS-HM-03A	12x12 Parkee VFT ML	No	М	Category I	ND/ND/ND	Dining	80 sq. ft.
HS-HM-03B	12x12 Parkee VFT ML	No	М	Category I	ND/ND/ND	Dining	
HS-HM-04A	12x12 Green VFT ML	No	М	Category I	ND/ND/ND/ND	Kitchen	100 sq. ft.
HS-HM-04B	12x12 Green VFT ML	No	М	Category I	ND/ND/ND/ND	Kitchen	
HS-HM-05A	1x1 White CT	Yes	М	Category II	ND	Living	250 sq. ft.
HS-HM-05B	1x1 White CT	Yes	М	Category II	ND	Dining	
HS-HM-06A	2x4 White CT w/pinholes & fissures	Yes	М	Category II	ND	W Bedroom	125 sq. ft.
HS-HM-06B	2x4 White CT w/pinholes & fissures	Yes	М	Category II	ND	Dining	
HS-HM-07A	2x2 White Textured CT	Yes	М	Category II	ND	Living	200 sq. ft.
HS-HM-07B	2x2 White Textured CT	Yes	М	Category II	ND	Dining	
HS-HM-08A	Drywall & Joint Compound	No	М	Category II	ND/ND	Kitchen Ceiling	2,750 sq. ft.
HS-HM-08B	Drywall & Joint Compound	No	М	Category II	ND/ND	Living Wall	
HS-HM-09A	Window Glazing	Yes	М	Category II	4% CH PC	2 <sup>nd</sup> Fl. N Bedroom	5 Windows
HS-HM-09B	Window Glazing	Yes	М	Category II	NA	2 <sup>nd</sup> Fl. S Bedroom	ACM
HS-HM-10A	12x12 Black VFT	No	М	Category I	ND/ND	2 <sup>nd</sup> Fl. S Bedroom	375 sq. ft.
HS-HM-10B	12x12 Black VFT	No	М	Category I	ND/ND	2 <sup>nd</sup> Fl. Landing	
HS-HM-11A	Gray Linoleum	No	М	Category I	ND	Basement	125 sq. ft.
HS-HM-11B	Gray Linoleum	No	М	Category I	ND	Basement	
HS-HM-12A	Window Caulk	No	М	Category II	ND	Exterior	12 Windows
HS-HM-12B	Window Caulk	No	М	Category II	ND	Exterior	
HS-HM-13A	Shed Black Roofing Shingle	No	М	Category I	ND/ND	Shed Exterior	225 sq. ft.
HS-HM-13B	Shed Black Roofing Shingle	No	М	Category I	ND/ND	Shed Exterior	
HS-HM-14A	Roof Flashing	No	М	Category I	10 % CH	Exterior	15 sq. ft.

Table 2 - Summary of Sample Descriptions and Asbestos Laboratory Results, 607 Helen St., Lansing, Michigan

Sample Number	Sample Description	Friable	Material Type	Material Classification	% Asbestos Laboratory Result	Sample Location	Approx. Material Quantity
HS-HM-14B	Roof Flashing	No	М	Category I	NA	Exterior	ACM
HS-HM-15A	Rear Pad Concrete	No	М	Category II	ND	Exterior	150 sq. ft.
HS-HM-15B	Rear Pad Concrete	No	М	Category II	ND	Exterior	
HS-HM-16A	Driveway Concrete	No	М	Category II	ND	Exterior	200 sq. ft.
HS-HM-16B	Driveway Concrete	No	М	Category II	ND	Exterior	
HS-HM-17A	Basement Concrete	No	М	Category II	ND	Basement	685 sq. ft.
HS-HM-17B	Basement Concrete	No	М	Category II	ND	Basement	
HS-HS-01A	Plaster	No	S	Category II	ND	Living Ceiling	1,750 sq. ft.
HS-HS-01B	Plaster	No	S	Category II	ND	Living Wall	
HS-HS-01C	Plaster	No	S	Category II	ND	Dining Wall	
HS-HS-01D	Plaster	No	S	Category II	ND	W Bedroom Wall	
HS-HS-01E	Plaster	No	S	Category II	ND	Bath Ceiling	
HS-HS-02A	Stairway Textured Surfacing	No	S	Category II	ND	Stairwell	50 sq. ft.
HS-HS-02B	Stairway Textured Surfacing	No	S	Category II	ND	Stairwell	
HS-HS-02C	Stairway Textured Surfacing	No	S	Category II	ND	Stairwell	
HS-HS-03A	Bath Textured Surfacing	No	S	Category II	ND	2 <sup>nd</sup> Fl. Bath	75 sq. ft.
HS-HS-03B	Bath Textured Surfacing	No	S	Category II	ND	2 <sup>nd</sup> Fl. Bath	
HS-HS-03C	Bath Textured Surfacing	No	S	Category II	ND	2 <sup>nd</sup> Fl. Bath	

#### 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, 607 Helen St., Lansing, Michigan

Asbestos Containing Material Description and Location						
Location	Material Description	Friable	Condition	Material Type	Approx. Quantity	
Kitchen (1 register, 5 sq. ft.) HVAC wrap on 6" diam. Ductwork, 10 sq. ft.)	HVAC Duct Wrap	Yes	Fair	TSI	15 sq. ft.	

Notes:

Material Types

### Abbreviations

M = Miscellaneous building material

TSI = Thermal System Insulation

S = Surfacing Material

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

Exterior - Asbestos Containing Materials				
Location	Material Description		Friable	Approx. Quantity
Building Roof	Flashing		No	15 sq. ft.
		Total		15 sq. ft.
Interior - Asbestos Containing Materials				
Location	<b>Material Description</b>		Friable	Approx. Quantity
Kitchen (1 register, 5 sq. ft.) HVAC wrap on 6" diam. Ductwork, 10 sq. ft.)	HVAC Duct Wrap		Yes	15 sq. ft.
		Total		15 sq. ft.
Interior - Asbestos Containing Materials				
Location	<b>Material Description</b>		Friable	Approx. Quantity
Bath (1 window 24" wide x 26" tall)	Glazing		Yes	1 Window
2 <sup>nd</sup> Fl. N Bedroom (1 window 32" wide x 61" tall)	Glazing		Yes	1 Window
2 <sup>nd</sup> Fl. S Bedroom (1 window 32" wide x 61" tall)	Glazing		Yes	1 Window
Basement (2 windows 30" wide x 12" tall)	Glazing		Yes	2 Windows
		Total		5 Windows

#### Table 4 - Summary of All Asbestos Containing Materials, 607 Helen St., Lansing, Michigan

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.



### Hazardous/Regulated Materials Survey and Inspection Report Prepared For:

Ingham County Land Bank 3024 Turner Street Lansing, MI 48906

House No:	1637 Pattengill Avenue, Lansing, MI 48910
Date Inspected:	01/27/2020
Inspected By:	Wade Wiltse
Inspector's Email:	Wade.Wiltse@2etc.com
Report Date:	02/03/2020

### **Building Information**

No. of Buildings	2	Garage	Detached
No. of Stories	2 + Attic	Garage Square Footage	750 SF
Square Footage	2,744 SF	Garage Siding	Wood
Basement Square Footage	1,377 SF	Garage Roof	Asphalt Shingle
House Roof	Asphalt Shingle		
Construction Type	Wood		
Foundation	Basement		
Inaccessible areas	None		•



Wode Wiltz

Michigan Asbestos Inspector (s): Wade Wiltse Michigan Asbestos inspector (s) License Number: A-51051

PI LA

Report Reviewed and Approved by: Leo Wall

House No.		ue, Lansing, MI 48910			
Date Inspected:	01/27/2020				
	TABLE 1				
HAZARDOUS MATERIALS					
Material Description	Quantity & Units	Location			
None observed					

### TIRE(s) REPORT

### Material

Quantity & Units

Location

None observed

House No.

Date Inspected:

### 1637 Pattengill Avenue, Lansing, MI 48910

01/27/2020

### TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present %	Point Count %
1	F	Plaster over Lath Grey	Throughout 1st/2nd Floors	3,816 SF	ND	
2	F	Ceiling Texture Bumpy White	Room 18	360 SF	ND	
3	F	Chimney Plaster Grey	Room 14	350 SF	ND	
4	F	Duct Wrap White	Rooms 1,2,3,5	160 SF	40%	
5	F	Vibration Dampener White	Room 14	10 SF	ND	
6	NF Cat 2	Cinder Block Mortar Grey	Basement	800 SF	ND	
7	NF Cat 2	Cinder Block Grey	Basement	800 SF	ND	
8	NF Cat 2	Poured Concrete Grey	Basement	800 SF	ND	
9	F	Drywall White	Room 11	600 SF	ND	
10	F	Tape and Mud White	Room 11	600 SF	ND	
11	NF Cat 2	Window Glaze White	Room 8	1 Unit / 10 SF	ND	
12	F	Blown in Insulation Grey	Throughout	3,861 SF	ND	
13	NF Cat 2	Window Caulk White	Throughout	17 Units/ 40 LF	ND	
14	NF Cat 1	12x12 Tile Specs	Rooms 5,7	150 SF	ND	
15	NF Cat 2	Mastic under 14 Black	Rooms 5,7	150 SF	ND	
16	NF Cat 2	Interior Caulk White/Yellow	Room 5	40 SF	ND	
17	NF Cat 1	12x12 P/S Tan	Room 5	10 SF	ND	
18	NF Cat 2	Construction Adhesive Yellow	Room 5	40 SF	ND	
19	F	Ceiling Tile White/Tan	Rooms 1,3	300 SF	ND	
20	NF Cat 1	Linoleum/ Paper Back Green/White	Room 4	40 SF	ND	
21	NF Cat 1	9x9 Tile Red	Room 6	100 SF	3%	

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are <u>estimates only</u>. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

House No.

Date Inspected:

### TABLE 2 SUSPECT ASBESTOS CONTAINING MATERIALS

01/27/2020

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present %	Point Count %
22	NF Cat 2	Floor Leveler Black	Room 6	100 SF	ND	
23	F	Fiber Board Tan	Room 7	150 SF	ND	
24	NF Cat 2	Cove Base Tan	Room 7	60 SF	ND	
25	NF Cat 2	Cove Base Mastic Tan	Room 7	60 SF	ND	
26	NF Cat 1	12x12 P/S Tan	Room 7	60 SF	ND	
27	NF Cat 2	Stair Tread Brown	Room 7	60 SF	3%	
28	NF Cat 1	Linoleum Blue	Room 20	100 SF	ND	
29	NF Cat 1	12x12 Floor Tile Brown Paper Back	Room 18	60 SF	ND	
30	NF Cat 1	12x12 P/S Tile Woodgrain	Room 17	100 SF	ND	
31	NF Cat 1	12x12 Floor Tile Tan	Room 17	100 SF	ND	
32	NF Cat 2	Mastic on 31 Brown	Room 17	100 SF	ND	
33	NF Cat 2	Window Glaze White	Exterior	17 units	ND	
34	NF Cat 2	Window Caulk White	Exterior	10 SF	ND	
35	NF Cat 2	House Wrap Black	Exterior	1,632 SF	ND	
36	NF Cat 2	Asphalt Shingle Black	Exterior Roof	1,200 SF	ND	
37	NF Cat 2	Roofing Materials Black/White	Exterior Garage Roof	150 SF	ND	

Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are <u>estimates only</u>. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

# 229581 1 St Floor 1630 Pattingill NIS B+D ( 1 North and r And +2351003 est ent Tiskin FOILE Bath (6) w W 1111 1 uko XOIC Jos T w 3 Iw Diving KI93 W NOYU t poors CL 19K  $\mathcal{V}$ 2 23 ho t Living Beelpasn Room 30 YOIA XOIB W 5

# 229581 mad floor-1637 Portengill NTS BTD W A 20) Attic puBMD (B) Hallway Star up AHec tops +3000 18) × 010 Bed soon ×02036 1w 1w CLEZAND WN

# 229581 Basement 1637 Pattengill NHS B+D A 547 w 11111 8 |5 9 Hall PANAK CL W Bath 21 Mility Del wl 400 G w Storage Basenand 0 age IW orge 51 W 40,000

# 22958/ Land plot 1637 Pattengill

W BIRNSE Stormer IN 23 IN int garage 25 IN N ext House 22 Drive WAY Porch X Site walk Street

 $( \cdot )$ 

Attachment:

Site Photographs





Side B



Side A (Front of House)



Side C (Back of House)





Side B



Side A (Front of Garage)



Side C (Back of House)

Side D



Pos. #4 Duct Wrap

Pos. #21 Floor Tile 9x9 Red



Pos. #27 Stair Tread

Attachment:

Laboratory Analytical Results and NVLAP Certification



ENVIRONMENTAL TESTING Laboratories, Inc. 37575 W HURON RIVER DRIVE ROMULUS, MICHIGAN 48174 (734) 955-6600 FAX: (734) 955-6604

To: Environmental Testing And Consulting Inc. 38900 Huron River Drive Romulus, MI 48174 ETL Job: 229581 Client Project: 33-01-01-20-451-011 Report Date: 1/31/2020

Attention: Tony Olivarez

Project Location: 1637 Pattengill Ave., Lansing, MI 48910 Vacant Residence

Lab Sample Number	Client Sample Number	Sample Type	Completed
1152876	01a	Asbestos PLM	01/31/2020
1152877	01b	Asbestos PLM	01/31/2020
1152878	01c	Asbestos PLM	01/31/2020
1152879	01d	Asbestos PLM	01/31/2020
1152880	01e	Asbestos PLM	01/31/2020
1152881	02a	Asbestos PLM	01/31/2020
1152882	02b	Asbestos PLM	01/31/2020
1152883	02c	Asbestos PLM	01/31/2020
1152884	03a	Asbestos PLM	01/31/2020
1152885	03b	Asbestos PLM	01/31/2020
1152886	03c	Asbestos PLM	01/31/2020
1152887	04a	Asbestos PLM	01/31/2020
1152888	04b	Asbestos PLM	01/31/2020
1152889	04c	Asbestos PLM	01/31/2020
1152890	05a	Asbestos PLM	01/31/2020
1152891	05b	Asbestos PLM	01/31/2020
1152892	05c	Asbestos PLM	01/31/2020

Lab Sample Number	Client Sample Number	Sample Type	Completed
1152893	06a	Asbestos PLM	01/31/2020
1152894	06b	Asbestos PLM	01/31/2020
1152895	07a	Asbestos PLM	01/31/2020
1152896	07b	Asbestos PLM	01/31/2020
1152897	08a	Asbestos PLM	01/31/2020
1152898	08b	Asbestos PLM	01/31/2020
1152899	09a	Asbestos PLM	01/31/2020
1152900	09b	Asbestos PLM	01/31/2020
1152901	10a	Asbestos PLM	01/31/2020
1152902	10b	Asbestos PLM	01/31/2020
1152903	11a	Asbestos PLM	01/31/2020
1152904	11b	Asbestos PLM	01/31/2020
1152905	12a	Asbestos PLM	01/31/2020
1152906	12b	Asbestos PLM	01/31/2020
1152907	13a	Asbestos PLM	01/31/2020
1152908	13b	Asbestos PLM	01/31/2020
1152909	14a	Asbestos PLM	01/31/2020
1152910	14b	Asbestos PLM	01/31/2020
1152911	15a	Asbestos PLM	01/31/2020
1152912	15b	Asbestos PLM	01/31/2020
1152913	16a	Asbestos PLM	01/31/2020
1152914	16b	Asbestos PLM	01/31/2020
1152915	17a	Asbestos PLM	01/30/2020
1152916	17b	Asbestos PLM	01/30/2020
1152917	18a	Asbestos PLM	01/30/2020
1152918	18b	Asbestos PLM	01/30/2020

Lab Sample Number	Client Sample Number	Sample Type	Completed
1152919	19a	Asbestos PLM	01/30/2020
1152920	19b	Asbestos PLM	01/30/2020
1152921	20a	Asbestos PLM	01/30/2020
1152922	20b	Asbestos PLM	01/30/2020
1152923	21a	Asbestos PLM	01/30/2020
1152924	21b	Asbestos PLM	01/30/2020
1152925	22a	Asbestos PLM	01/30/2020
1152926	22b	Asbestos PLM	01/30/2020
1152927	23a	Asbestos PLM	01/30/2020
1152928	23b	Asbestos PLM	01/30/2020
1152929	24a	Asbestos PLM	01/30/2020
1152930	24b	Asbestos PLM	01/30/2020
1152931	25a	Asbestos PLM	01/30/2020
1152932	25b	Asbestos PLM	01/30/2020
1152933	26a	Asbestos PLM	01/30/2020
1152934	26b	Asbestos PLM	01/30/2020
1152935	27a	Asbestos PLM	01/30/2020
1152936	27b	Asbestos PLM	01/30/2020
1152937	28a	Asbestos PLM	01/30/2020
1152938	28b	Asbestos PLM	01/30/2020
1152939	29a	Asbestos PLM	01/30/2020
1152940	29b	Asbestos PLM	01/30/2020
1152941	31a	Asbestos PLM	01/30/2020
1152942	31b	Asbestos PLM	01/30/2020
1152943	31a	Asbestos PLM	01/30/2020
1152944	31b	Asbestos PLM	01/30/2020

Lab Sample Number	Client Sample Number	Sample Type	Completed
1152945	32a	Asbestos PLM	01/30/2020
1152946	32b	Asbestos PLM	01/30/2020
1152947	33a	Asbestos PLM	01/30/2020
1152948	33b	Asbestos PLM	01/30/2020
1152949	34a	Asbestos PLM	01/30/2020
1152950	34b	Asbestos PLM	01/30/2020
1152951	35a	Asbestos PLM	01/30/2020
1152952	35b	Asbestos PLM	01/30/2020
1152953	36a	Asbestos PLM	01/30/2020
1152954	36b	Asbestos PLM	01/30/2020
1152955	37a	Asbestos PLM	01/30/2020
1152956	37b	Asbestos PLM	01/30/2020

Recei Spactto

**Reviewed by:** 

Rovena Shparthi





#### Polarized Light Microscopy Asbestos Analysis Report

To :	Environmental Testing And Consulting Inc.
	38900 Huron River Drive
	Romulus,MI 48174
Location :	Vacant Residence
	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152876 01a Rm 1 N Wall @ ( Analyst: Eleni Kil Date Analyzed :	liaris	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152877 01b Rm 2 W Wall @ Analyst: Eleni Kil Date Analyzed :	liaris	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152878 01c Rm 3 E Wall @ I Analyst: Eleni Kil Date Analyzed :		Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152879 01d Rm 18 Ceiling Analyst: Eleni Kil Date Analyzed :	Plaster liaris 01/31/2020	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152880 01e Rm 6 @ Door Analyst: Eleni Kil Date Analyzed :		Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152881 02a Rm 18 Ceiling Analyst: Eleni Kil Date Analyzed :	Texture liaris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M-82//020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested. An estimate of uncertainty can be provided at the client's request.





#### Polarized Light Microscopy Asbestos Analysis Report

To :	Environmental Testing And Consulting Inc.
	38900 Huron River Drive
	Romulus,MI 48174
Location :	Vacant Residence
	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152882 02b Rm 18 Ceiling Analyst: Eleni Kilia Date Analyzed :	Texture aris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152883 02c Rm 18 Ceiling Analyst: Eleni Kilia Date Analyzed :	Texture aris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152884 03a Rm 14 on Chimne Analyst: Eleni Kilia Date Analyzed :		Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152885 03b Rm 14 on Chimne Analyst: Eleni Kilia Date Analyzed :		Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152886 03c Rm 14 on Chimne Analyst: Eleni Kilia Date Analyzed :		Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152887 04a Rm 3 on Boot Analyst: Eleni Kilia Date Analyzed :	Duct Wrap aris 01/31/2020	White Fibrous Homogenous	PLM 20% Cellulose	PLM 40% Other	PLM 40% Chrysotile

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#### Polarized Light Microscopy Asbestos Analysis Report

_		ETC Job :	229581
To :	Environmental Testing And Consulting Inc.	Client Project :	33-01-01-20-451-011
	38900 Huron River Drive	Date Collected :	01/27/2020
	Romulus,MI 48174	Date Received :	01/28/2020
Location :	Vacant Residence		0 1120/2020
	1637 Pattengill Ave., Lansing, MI 48910		

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152888 04b Rm 1 on Boot Analyst: Eleni Kiliaris Date Analyzed : 01	1/31/2020	Positive Stop			
Sample Not Analyzed	ł				
	1/31/2020	Positive Stop			
Sample Not Analyzed	3				
1152890 05a Rm 14 on Furnace Analyst: Eleni Kiliaris Date Analyzed : 01	Vibation Dampener	White Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
1152891 05b Rm 14 on Furnace Analyst: Eleni Kiliaris Date Analyzed : 01	Vibation Dampener	White Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
1152892 05c Rm 14 on Furnace Analyst: Eleni Kiliaris Date Analyzed : 01	Vibation Dampener	White Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
1152893 06a Rm 12 N. Wall Analyst: Eleni Kiliaris Date Analyzed : 01	Cinder Block Mortar	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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#### Polarized Light Microscopy Asbestos Analysis Report

To :	Environmental Testing And Consulting Inc.
	38900 Huron River Drive
	Romulus,MI 48174
Location :	Vacant Residence
	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152894 06b Rm 12 N. Wall Analyst: Eleni Kili Date Analyzed :	Cinder Block Mortar iaris 01/31/2020	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152895 07a Rm 12 N. Wall Analyst: Eleni Kili Date Analyzed :	Cinder Block iaris 01/31/2020	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152896 07b Rm 12 N. Wall Analyst: Eleni Kili Date Analyzed :	Cinder Block iaris 01/31/2020	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152897 08a Rm 11 Floor Analyst: Eleni Kili Date Analyzed :	Poured Concrete iaris 01/31/2020	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152898 08b Rm 13 Floor Analyst: Eleni Kili Date Analyzed :	Poured Concrete iaris 01/31/2020	Grey Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152899 09a Rm 11 N. Wall Analyst: Eleni Kili Date Analyzed :	Drywall iaris 01/31/2020	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected

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#### Polarized Light Microscopy Asbestos Analysis Report

To :	Environmental Testing And Consulting Inc.
	38900 Huron River Drive
	Romulus,MI 48174
Location :	Vacant Residence
	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152900 09b Rm 11 N. Wall Analyst: Eleni Kil Date Analyzed :	Drywall iaris 01/31/2020	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1152901 10a Rm 11 N. Wall Layer-1 Analyst: Date Analyzed :	Mud Eleni Kiliaris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152901 10a Rm 11 N. Wall Layer-2 Analyst: Date Analyzed :	Tape Eleni Kiliaris 01/31/2020	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1152902 10b Rm 11 N. Wall Layer-1 Analyst: Date Analyzed :	Mud Eleni Kiliaris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152902 10b Rm 11 N. Wall Layer-2 Analyst: Date Analyzed :	Tape Eleni Kiliaris 01/31/2020	White Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
1152903 11a Rm 8 on Window Analyst: Eleni Kil Date Analyzed :		White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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#### Polarized Light Microscopy Asbestos Analysis Report

To :	Environmental Testing And Consulting Inc.
	38900 Huron River Drive
	Romulus,MI 48174
Location :	Vacant Residence
	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152904 11b Rm 8 on Window Analyst: Eleni Kili Date Analyzed :		White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152905 12a Attic 21 Analyst: Eleni Kili Date Analyzed :	Blown-in Insulation aris 01/31/2020	Grey Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1152906 12b Attic 21 Analyst: Eleni Kili Date Analyzed :	Blown-in Insulation aris 01/31/2020	Grey Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1152907 13a Rm 5 Window Analyst: Eleni Kili Date Analyzed :	Window Caulk aris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152908 13b Rm 5 Window Analyst: Eleni Kili Date Analyzed :	Window Caulk aris 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152909 14a Rm 5 @ Door Analyst: Eleni Kili Date Analyzed :	12x12 Tile aris 01/31/2020	Tan Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected

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Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152910 14b Rm 5 @ Door Analyst: Eleni Kiliaris Date Analyzed : ()	12x12 Tile s 01/31/2020	Tan Non-Fibrous Homogenous	PLM 4% Cellulose	PLM 96% Other	PLM None Detected
1152911 15a Rm 5 @ Door Analyst: Eleni Kiliaris Date Analyzed : ()	Mastic s 01/31/2020	Brown Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1152912 15b Rm 5 @ Door Analyst: Eleni Kiliaris Date Analyzed : ()	Mastic 5 01/31/2020	Brown Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1152913 16a Rm 5 E Wall Analyst: Eleni Kiliaris Date Analyzed : (	Interior Caulk s 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152914 16b Rm 5 E Wall Analyst: Eleni Kiliaris Date Analyzed : ()	Interior Caulk s 01/31/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Date Analyzeu . (	51101/2020				

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ETC Job :	229581
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Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152916 17b Rm 5 @ Sink Analyst: Aubrie Noe Date Analyzed : (	12x12 P&S Tile 1 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152917 18a Rm 5 Behind the Sir Analyst: Aubrie Noe Date Analyzed : (		Yellow Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152918 18b Rm 5 Behind the Sir Analyst: Aubrie Noe Date Analyzed : (		Yellow Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152919 19a Rm 1 Ceiling Analyst: Aubrie Noe Date Analyzed : (	Ceiling Tile I 01/30/2020	White/Tan Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1152920 19b Rm 3 Ceiling Analyst: Aubrie Noe Date Analyzed : (	Ceiling Tile I 01/30/2020	White/Tan Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1152921 20a Rm 4 Closet Analyst: Aubrie Noe Date Analyzed : (	Linoleum/Paperback I 01/30/2020	Green/White Fibrous Non-Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected

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	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152922 20b Rm 4 Closet Analyst: Aubrie N Date Analyzed :	Linoleum/Paperback loel 01/30/2020	Green/White Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
1152923 21a Rm 6 @ Door Layer-1 Analyst: Date Analyzed :	9x9 Tile Aubrie Noel 01/30/2020	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 96% Other	PLM 3% Chrysotile
1152923 21a Rm 6 @ Door Layer-2 Analyst: Date Analyzed :	Adhesive Aubrie Noel 01/30/2020	Yellow Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152923 21a Rm 6 @ Door Layer-3 Analyst: Date Analyzed :	Paper Back Aubrie Noel 01/30/2020	Black Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected





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ETC Job :	229581
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Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152924 21b Rm 6 @ Door Layer-1 Analyst: / Date Analyzed :	Aubrie Noel 01/30/2020	Positive Stop			
Layer Not Analyz	zed				
1152924 21b Rm 6 @ Door Layer-2 Analyst: / Date Analyzed :	Adhesive Aubrie Noel 01/30/2020	Yellow Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152924 21b Rm 6 @ Door Layer-3 Analyst: / Date Analyzed :	Paper Back Aubrie Noel 01/30/2020	Black Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1152925 22a Rm 6 @ Door Analyst: Aubrie N Date Analyzed :	Floor Leveler oel 01/30/2020	Black Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1152926 22b Rm 6 @ Door Analyst: Aubrie N Date Analyzed :	Floor Leveler oel 01/30/2020	Black Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1152927 23a Rm 7 Ceiling Analyst: Aubrie N Date Analyzed :	Fiber Board oel 01/30/2020	Tan Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected

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ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152928 23b Rm 7 Ceiling Analyst: Aubrie No Date Analyzed :	Fiber Board Del 01/30/2020	Tan Fibrous Homogenous	PLM 99% Cellulose	PLM 1% Other	PLM None Detected
1152929 24a Rm 7 E Wall Analyst: Aubrie No Date Analyzed :	Cove Base Del 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152930 24b Rm 7 E Wall Analyst: Aubrie No Date Analyzed :	Cove Base Del 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152931 25a Rm 7 E Wall Analyst: Aubrie No Date Analyzed :	Cove Base Mastic Del 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152932 25b Rm 7 E Wall Analyst: Aubrie No Date Analyzed :	Cove Base Mastic oel 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152933 26a Rm 7 @ Door Analyst: Aubrie No Date Analyzed :	12x12 P&S Tile pel 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152934 26b Rm 7 @ Door Analyst: Aubrie N Date Analyzed :	12x12 P&S Tile loel 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152935 27a Rm 7 On Stairs Analyst: Aubrie N Date Analyzed :	Stair Tread loel 01/30/2020	Brown Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 96% Other	PLM 3% Chrysotile
1152936 27b Rm 7 On Stairs Analyst: Aubrie N Date Analyzed :	loel 01/30/2020	Positive Stop			
Layer Not Analy	zed				
1152937 28a Rm 20 Floor Analyst: Aubrie N Date Analyzed :	Linoleum Noel 01/30/2020	Blue Non-Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected
1152938 28b Rm 20 Floor Analyst: Aubrie N Date Analyzed :	Linoleum Noel 01/30/2020	Blue Non-Fibrous Homogenous	PLM 30% Cellulose	PLM 70% Other	PLM None Detected





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ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152939 29a Rm 18 Closet Layer-1 Analyst: . Date Analyzed :	12x12 Floor Tile Aubrie Noel 01/30/2020	Brown Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1152939 29a Rm 18 Closet Layer-2 Analyst: Date Analyzed :	Paper Back Aubrie Noel 01/30/2020	Black Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
1152940 29b Rm 18 Closet Layer-1 Analyst: . Date Analyzed :	12x12 Floor Tile Aubrie Noel 01/30/2020	Brown Non-Fibrous Homogenous	PLM 5% Cellulose	PLM 95% Other	PLM None Detected
1152940 29b Rm 18 Closet Layer-2 Analyst: Date Analyzed :	Paper Back Aubrie Noel 01/30/2020	Black Fibrous Homogenous	PLM 90% Cellulose	PLM 10% Other	PLM None Detected
1152941 31a Rm 17 Floor Analyst: Aubrie N Date Analyzed :	12x12 Floor Tile loel 01/30/2020	Wood Grain Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152942 31b Rm 17 Floor Analyst: Aubrie N Date Analyzed :	12x12 Floor Tile loel 01/30/2020	Wood Grain Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152943 31a Rm 17 Floor Analyst: Aubrie No Date Analyzed :	12x12 Floor Tile Del 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152944 31b Rm 17 Floor Analyst: Aubrie No Date Analyzed :	12x12 Floor Tile Del 01/30/2020	Tan Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152945 32a Rm 17 Floor Analyst: Aubrie No Date Analyzed :	Mastic Under 31 oel 01/30/2020	Brown Non-Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
1152946 32b Rm 17 Floor Analyst: Aubrie No Date Analyzed :	Mastic Under 31 Del 01/30/2020	Brown Non-Fibrous Homogenous	PLM 15% Cellulose	PLM 85% Other	PLM None Detected
1152947 33a Rm 2 S Window Analyst: Aubrie No Date Analyzed :	Window Glaze Del 01/30/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152948 33b Rm 1 N Window Analyst: Aubrie No Date Analyzed :	Window Glaze Del 01/30/2020	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected

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ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152949 34a Rm 7 S. Window Analyst: Aubrie N Date Analyzed :		White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152950 34b Rm 7 S. Window Analyst: Aubrie N Date Analyzed :		White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1152951 35a Ext House SE Sic Analyst: Aubrie N Date Analyzed :		Black Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1152952 35b Ext House SE Sir Analyst: Aubrie N Date Analyzed :		Black Fibrous Homogenous	PLM 95% Cellulose	PLM 5% Other	PLM None Detected
1152953 36a Ext House Room Analyst: Aubrie N Date Analyzed :		Black Non-Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected
1152954 36b Ext House Room Analyst: Aubrie N Date Analyzed :		Black Non-Fibrous Homogenous	PLM 10% Cellulose	PLM 90% Other	PLM None Detected

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	Romulus,MI 48174
Location :	Vacant Residence
	1637 Pattengill Ave., Lansing, MI 48910

ETC Job :	229581
Client Project :	33-01-01-20-451-011
Date Collected :	01/27/2020
Date Received :	01/28/2020

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1152955 37a Ext Garage Roo Layer-1 Analyst: Date Analyzed :	Aubrie Noel	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1152955 37a Ext Garage Roo Layer-2 Analyst: Date Analyzed :	Aubrie Noel	Green Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
1152956 37b Ext Garage Roo	Roofing Materials	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :					

K-Ja

Lab Supervisor/Other Signatory

Analyst:

Aubril Noel

Aubrie Noel

Elen teilin

Eleni Kiliaris

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#### Polarized Light Microscopy Asbestos Analysis Report

<ul> <li>To : Environmental Testing And Consulting Inc.</li></ul>	ETC Job : 229581
38900 Huron River Drive	Client Project : 33-01-01-20-451-011
Romulus,MI 48174 <li>Location : Vacant Residence</li>	Date Collected : 01/27/2020
1637 Pattengill Ave., Lansing, MI 48910	Date Received : 01/28/2020

Sample

Description

Appearance

% Fibrous

% Non-Fibrous

% Asbestos

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC") Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials EPA 600/M-48-20-20: Interim Method for Determination of Asbestos in Bulk Isulation Samples A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R+93-116 & EPA 600/M+82//020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing. Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested. An estimate of uncertainty can be provided at the client's request.

2	38900 HURON RIVER D ROMULUS, MICHIGAN 48 (734) 955-6600 FAX: (734) 992-2261		Bulk Asbestos/Mold Chain of Custody			
	www.2etl.com		ETL Project #: 22958			
Client: ETC	C Lansing	Contact:	Project Location/Name: — 1637 Pailtingill, Lamsing_m Inserve			
		Phone:	- 48920			
Address:	capitol. Lansing.mt	Fax:	4 6 1 2 0			
D21 N.	106	E-mail: ResulfS@2ETC. Com	Client Project #: 229,5%			
		Fax 🛛 Verbal 🗆 Other	Date Sampled: 1/27/20			
Turnarc	ound Time (TAT):	SH (2 hrs) □ Same Day □ 24 hrs □ 48 hrs	Standard (3-5 days)			
,		Asbestos PLM/Mold Instructions (Check all that apply)				
PLM EPA	600/R-93/116, 1993 (		Stop at 1st Positive: Yes □ / No □			
Point Cou	inting: Yes 🛔 / No 🗆	*400 Points  *1000 Points	Clearly Mark Homogenous Group			
Point Cou		anything under 3%	*Gravimetric Reduction  *Nuisance Dust			
Mold Air	□ Mold Tape □	tvlold Bulk □	*Soil or Vermiculite Analysis □			
* Additional ch	arge and turnaround may be re	quired				
Lab ID	Sample ID	Sample Location	Material Description/Volume			
	OLA-E					
	02A-C	Please see affached				
	05 A-C					
	OG A+B					
	3DA-BV					
-						
		÷1				
			Date Time			
nquished (Name/O	rganization):	de Silte	1/27/20 16:00 AMPA			
eived (Name/ETL):	1	hat Il- Wintt Johnson	1128/20 11:00 AMA			
	Analysis (Name/ETL):	one roit Electulia				
cial Instructions:	·····		Remarks:			

\*\*IN ORDER TO ENSURE RESULTS BY SPECIFIED TAT, THE LAB MUST BE EMAILED/CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED OFF

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# Asbestos Material Sampling Summary Sheet Surfacing materials

Job #:	229581	Building	163	9 PrHingill	Date: 1/27/	20	1
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
01	Material: Plasfestover Plasfestover Lath Grey	Ŧ	A R V DU	RMI N Wall & corner 876 Rmz w. wall & window 877 Rm 3 E wall & Door 878 Rm 18 Cailing 879 Rn 6 Door 880		3816 SF	
02	Material: <u>ceiling</u> texture Bumpy White	<u>t</u>	A B C	Rm 18 celing 88/ 1 882 1 883	Rm 18	360 SF	
03	Material: Chimney plastee	F	A B C	Rn 14 on Chimney 884 885 886	<14	350 SF	

0 >5000 = 7 sam

Asbestos Material Sampling Summary Sheet TSI (Thermal System Insulation) materials

Job #:	229581	Building:	163	57 Pattingill	Date: 1/25	10	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location 1152	Date: 1/2-5/ Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
04	Material: Duct wrap Description While Material: Unbox to a	F	A B C	Rm 3 on Boot 887 Rm 1 on boot 888 Rm 2 on boot 888	1,2,35	160 SF	
05	Material: Vibration Dampner Description White Material:	F	A D C	Pm 14 on finance 840 891 892	2  4 -	10 5F	
	Description Material:				_		
	Description						
	Material: Description				-		
	Material: Description				-		
	Material: Description				-		

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22958 Job #: Pattingill 1637 20 20 Friable (F) / Material Sample Material Located **Material Description** Non-Friable no. Sample Location Letter throughout bldg Quantity Picture # (NF) 1152 (Please List all Rooms) Material: Cinder plack mortes A 893 Rm 12 N, Way Basement MF Description B 66 V SOSF 894 2 Grev Cinder block Material: Rm 12 N. Wall A 895 VF Description Basement B 5 SOUSF 896 Grey Material: goved Concrete A Rn 11 897 Flow NF Besenert Description 08 Rm B 3 898 1 tour SOSF Greu Material: 899 A RMI N. Wall F Rn 11 Description 09 B V 900 GOD white Material: ~ 1 cipe A + Mud RM II N. Wal 961 Rall F Description B 10 902 White 600 Material: Window glaze 903 A RMR Window 01 1 Un H NF Description 11 B 904 A 2 10SR White Blown in Insulation Material: AB ATTIC 21 Qob Thragholt NF 2 Description 700 V 2 Grey 3861 SF

2 for Land Bank, 3 for anything else unless otherwise requested

Revision date 5/7/2015

4/8

Job #:	229581	16	30	Pallin II	1/00/	2.	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	PaH1 gill Sample Location	Material Located throughout bldg (Please List all Rooms)	26 Quantity	Picture #
13	Material: Window Cewik Description White	NK Z	A B	Rn 5 Window 1152 907 408	en openious	17 Units 4024	
14	Material: 12×12 tile Description Specs	24	A B	Rn 5 C Door 909 10 910	5,7	)50 SF	
15	Material: MASTIL UNDER 14 Description Black	NFN	A B	Rascidor 94 Var	5,7	150 SF	
16	Material: Int. Caulk Description White yellow	NF. Z	A 3	Rm 5 E wall 913 4 9/4	5	40 SF	
17	Material: 12X12 P+S tale Description TAN	NF	A B	RMSC SINK 915 M g/6	5	/6 SF	
18	Material: CONST. Adheswe Description Vellow	NIF 2	A B	Rn 5 behind the sink 917	5	40 512	
)9	Material: Cerling file Description White ( tan	NF	A 3	Rm / Cerling 920 Rm 3 cerling 920	), 3	350	

Revision date 5/7/2015

5/8

Revision	date	5/7	/2015
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Job #:	221581	1635	7 1	alling gill	1/20/	0.	
Material no.	( Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	<b>20</b> Quantity	Picture #
30	Material: Linoleum / puper burk Description Grew / White	NE	A B	Rm 4 closet 921 V 922	4	40 SF-	
21	Material: 9X9 File Red Description Red	NY I	A B	Rmbe Door 923 20 924	6	100 S7	
99	Material: FLOOR levelee Description Black	NC Z	AB	Rm 6 @ Door 925 1 926	6	100	
23	Material: Fibe-board Description TAN	NF	43	Pm7 cailing 927 4 928	7	150 SF	
24	Material: Coverbase Description	NF I	A B	Bom 7 E Way 929 - 4 930	7	(06 SF	
25	Material: Cour base Mastri Description Fan	N4 2	A B	RMDE Wall 931 1 932		60 50	
He	Material: 12412 Pts tile Description TAN	NF 1	A B	Rm) e Dour 933 V 934		60 SF	

618

# **Miscellaneous** materials

2295 Job #: 1635 8 Pattingil 20 20 Friable (F) / Material Sample Material Located Material Description Non-Friable no. Sample Location throughout bldg Letter Quantity Picture # (NF) (Please List all Rooms) Material: Stain treed Rm) AB ON STAMS 153 935 60 NE Description 7 2 P 2 936 SF Brown Material: moleum A Ry 20 Q37 FLOOR NE 20 Óð Description 23 R 2 Q38 SF Blue Material: RX12 Floor tale A Rom 18 closet 939 60 NF 19 Description 29 B a40 10 Brows paper Bach 1 SP Material: 12×12 D+ 12m 12 From A3 941 NF Description 100 30 942 0 2 SF Wood graini Material: FLOOR File 2×12 Rn 12 AB FLOOR 943 100 31 Description NF 10 944 TPON SE ١ Material: MASTIC UNDER 31 A 94K Rm 17 tioon NFZ Description 100 7 32 B A 946 S= Brown Material: 947 Window Slaze NF P PM2 S. Window ext Windowo 33 Description B 948 Nº window Rm White Units

Asbestos Material Sampling Summary Sheet

Revision date 5/7/2015

2 for Land Bank, 3 for anything else unless otherwise requested

Job #: 22958 1637 Pattingul! , Lanun Material MI Material Description Friable (F) / no. Sample Non-Friable Material Located Letter Sample Location (NF) throughout bldg Quantity Material: 1152 Picture # NINDON CANKERT (Please List all Rooms) 30 A Description Rm 7 NF 5. wind w 949 3 Cxt Winde 10 WINHE 2 950 SP Material: House whep 35 Description NF house SESide a51 A EXT 3 2 BLACK ext house 163z 952 SF Material: Asphalt Shryle 36 Description BEXT Rovt A ext Rof NF hove N. Side 15 S 1200 Black 2 0154 SP Roofing Materials Material: 3 A 3 Description EXT NF 955 GARAGE Rot 150 Black White 2 1 956 SF Material: Description Material: Description Material: Description

Revision date 5/7/2015



Attachment:

Inspection Procedures

# Hazardous/Regulated Materials Survey and Inspection Procedures

#### HAZARDOUS MATERIALS INSPECTION

A table showing hazardous materials, above the household quantity limitations, found at the house is included as **Table 1: Hazardous Materials**. This table lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include: mercury switches, fluorescent lighting tubes and ballasts, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

Under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is a residential household quantity exclusion. Materials are listed in Table I if they are present in quantities larger than what would typically be expected to be used and disposed in a normal household, and/or may require special handling and disposal requirements, such as: paints, solvents, adhesives, oils, tires, large circuit boards (such as televisions, computers, and security systems), prescription drugs, and syringes. On the other hand, if there were only household sized containers of maintenance, cleaning, non-prescription health and personal hygiene products, radios, and controllers present, as would be found in most homes, these materials would not be listed.

Fluorescent lighting systems have ballasts that have the potential to contain polychlorinated biphenyls (PCBs). Although PCBs are no longer commercially produced in the United States, they may be present in U.S. products that were produced prior to 1979, and may still be commercially available from other countries. Fluorescent bulbs, thermostats, and thermometers may contain mercury and can be treated as Universal Waste, which are streamlined standards for managing common types of hazardous waste.

If obtained, photographs of hazardous materials for the above referenced property are included in Attachment: Site **Photographs**.

#### ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

The property was inspected for the presence of asbestos-containing materials (ACMs) in order to meet the requirements of 40 CFR, Part 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

#### Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos included drywall, plaster, stucco, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation.

#### Sample Collection

At least two samples of each suspected asbestos containing material identified during the inspection was collected. For surfacing materials (sprayed and/or troweled on) a minimum of three samples were collected for areas that contained less than 1000 square feet of the material; 5 samples were collected for materials 1000 to 5000 square feet, and 7 samples were taken for areas greater than 5000 square feet. A Michigan Accredited Asbestos Inspector collected representative samples of each suspected ACM. Each sample was placed into a sealed plastic bag and labeled. A description of the material and location of the sample collected was recorded in the field notes. The total quantity of each suspected ACM was estimated and recorded in the field notes.

A listing of suspect ACMs at this property that were sampled and sent to the laboratory for analysis is included in **Table 2.** A copy of a floor plan showing sample locations is included in **Attachment: Site Drawing.** 

# Hazardous/Regulated Materials Survey and Inspection Procedures

#### Laboratory Analysis / Results

Each sample of suspect ACM collected at this property was analyzed for asbestos content using polarized light microscopy (PLM) by a NVLAP and NIST accredited laboratory in accordance with 40 CFR Ch. I (1-1-87 Edition) Part 763, Subpart F, Appendix A, pp. 293-299. Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

Each sample collected for analysis was delivered to either IATL (International Asbestos Testing Laboratories), 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054, ETL (Environmental Testing Laboratories), 38900 W. Huron River Drive, Suite 200, Romulus, MI 48174, and/or ACM Engineering & Environmental Services, 26598 US Highway 20 West, South Bend, IN 46628. Laboratory results are included in Attachment: Laboratory Analytical Results.