

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-31-253-161
House No:	4020 Ingham St, Lansing, MI 48911
Date Inspected:	11/28/2017
Inspected By:	Jake Gleason
Inspectors State Card #	A-49991

Building Information

No. Stories	1	Garage	No Garage
Square Footage	700 SF	Garage Square Footage	NA
Basement Square Footage	No Basement	Garage Siding	NA
Siding	Vinyl and Aluminum	Garage Color	NA
Color	Yellow	Garage Shingles	NA
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-253-161
House No. 4020 Ingham St, Lansing, MI 48911
Date Inspected: 11/28/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 2
Refrigerator	1	Room 2
TV Screen	2	Room 4, 6
Smoke Detector	2	Room 5, 6

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-253-161
 House No. 4020 Ingham St, Lansing, MI 48911
 Date Inspected: 11/28/2017

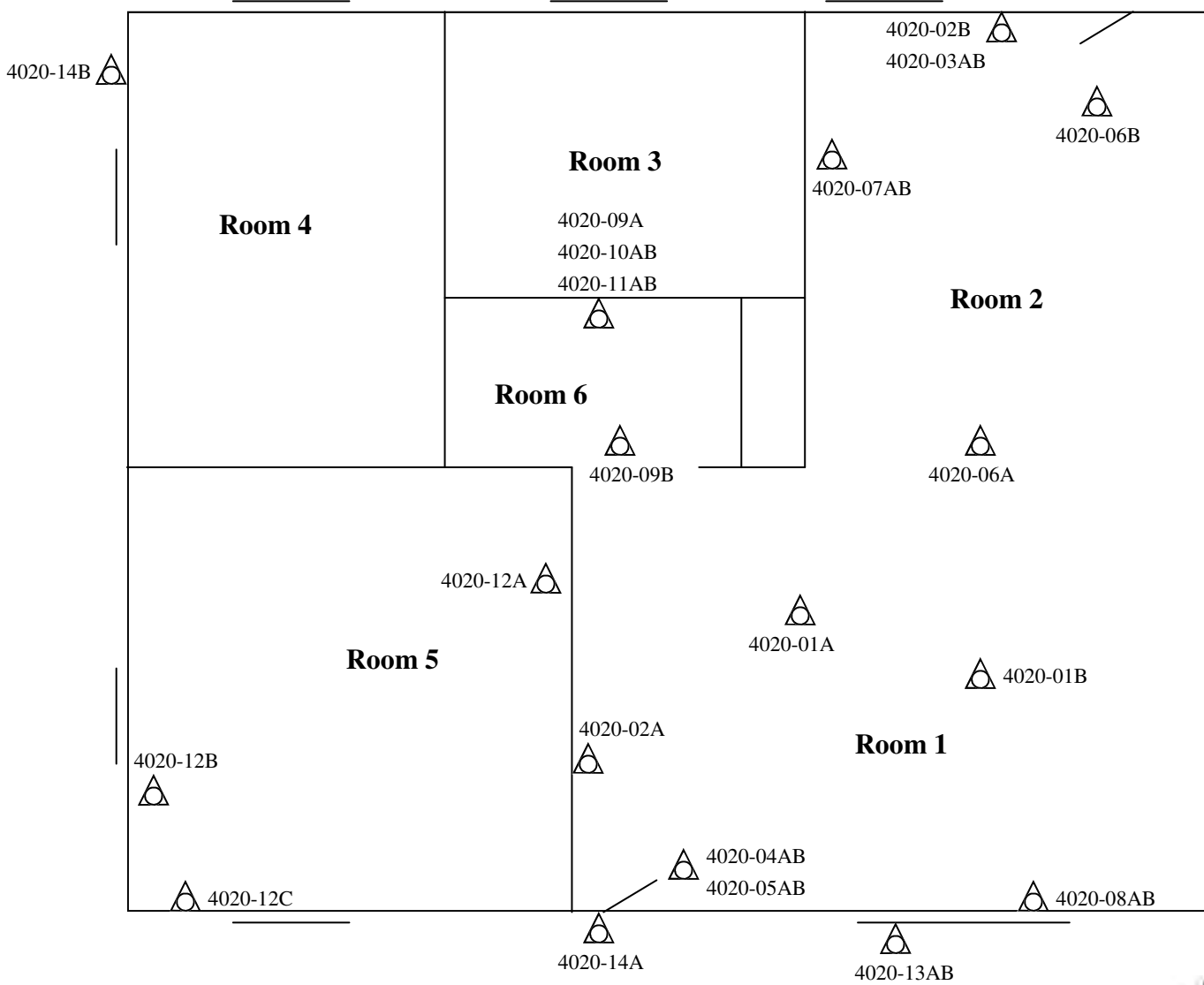
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Ceiling tile, white with worm holes	Room 1, 2, 4, 5	576 SF	No
2	F	Drywall, white	Throughout	2000 SF	No
3	F	Tape and mud, white	Throughout	2000 SF	No
4	NF	Linoleum, tan	Room 1	12 SF	No
5	F	Mastic, black (under 4)	Room 1	12 SF	No
6	NF	Linoleum, yellow diamond	Room 2	144 SF	No
7	F	Sink undercoat, black	Room 2	4 SF	No
8	NF	Window caulk, white	Room 1	1 window	No
9	NF	12x12 Peel and Stick, brown and yellow	Room 3, 6	90 SF	No
10	NF	12x12 Tile, white	Room 3-6	335 SF	No
11	F	Mastic, black (under 10)	Room 3-6	335 SF	No
12	F	Texture wall, white	Room 4	400 SF	No
13	F	Window glaze, white	Exterior (room 1)	1 window	No
14	NF	Asphalt shingle, red	Exterior	1150 SF	No

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 estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-31-253-161
House No. 4020 Ingham St, Lansing, MI 48911
Date Inspected: 11/28/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-31-253-161
House No. 4020 Ingham St, Lansing, MI 48911
Date Inspected: 11/28/2017



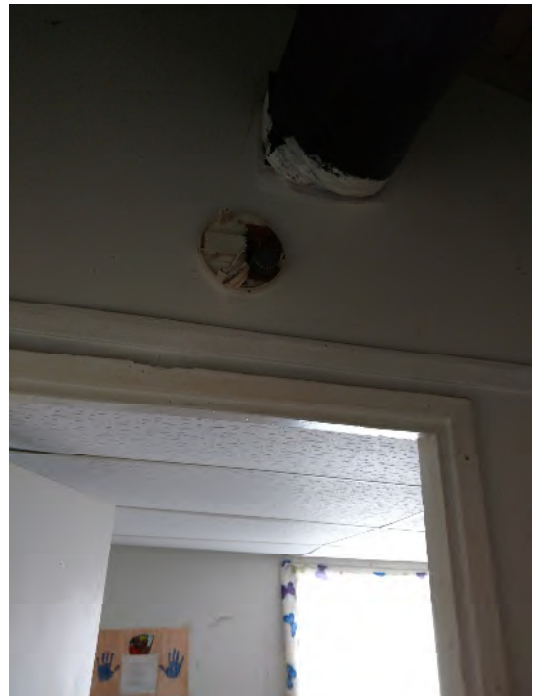
Hot Water Tank



Refrigerator



TV Screen



Smoke Detector

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
4020 Ingham St, Lansing, MI

Attention :

Client Project : 33-01-01-31-253-161

ETC Job : 199873

Report Date : 12/6/2017

Login #	Sample ID	Work Requested	Completed
633896	1A	Asbestos Analysis	12/06/2017
633897	1B	Asbestos Analysis	12/06/2017
633898	2A	Asbestos Analysis	12/06/2017
633899	2B	Asbestos Analysis	12/06/2017
633900	3A	Asbestos Analysis	12/06/2017
633901	3B	Asbestos Analysis	12/06/2017
633902	4A	Asbestos Analysis	12/06/2017
633903	4B	Asbestos Analysis	12/06/2017
633904	5A	Asbestos Analysis	12/06/2017
633905	5B	Asbestos Analysis	12/06/2017
633906	6A	Asbestos Analysis	12/06/2017
633907	6B	Asbestos Analysis	12/06/2017
633908	7A	Asbestos Analysis	12/06/2017
633909	7B	Asbestos Analysis	12/06/2017
633910	8A	Asbestos Analysis	12/06/2017
633911	8B	Asbestos Analysis	12/06/2017
633912	9A	Asbestos Analysis	12/06/2017
633913	9B	Asbestos Analysis	12/06/2017
633914	10A	Asbestos Analysis	12/06/2017
633915	10B	Asbestos Analysis	12/06/2017

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.

Login #	Sample ID	Work Requested	Completed
633916	12A	Asbestos Analysis	12/06/2017
633917	12B	Asbestos Analysis	12/06/2017
633918	12C	Asbestos Analysis	12/06/2017
633919	11A	Asbestos Analysis	12/06/2017
633920	11B	Asbestos Analysis	12/06/2017
633921	13A	Asbestos Analysis	12/06/2017
633922	13B	Asbestos Analysis	12/06/2017
633923	14A	Asbestos Analysis	12/06/2017
633924	14B	Asbestos Analysis	12/06/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4020 Ingham St, Lansing, MI

ETC Job : 199873
Client Project : 33-01-01-31-253-161
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633896 1A Middle S RM 1 Analyst: Renee Renauer	Ceiling Tile	White Non-Fibrous Non-Homogenous	85% Cellulose	15% Other	None Detected
633897 1B Middle N RM 1 Analyst: Renee Renauer	Ceiling Tile	White Non-Fibrous Non-Homogenous	85% Cellulose	15% Other	None Detected
633898 2A S Wall Entry RM 1 Analyst: Renee Renauer	Drywall	White Non-Fibrous Non-Homogenous	3% Cellulose	97% Other	None Detected
633899 2B W Wall Entry RM 2 Analyst: Renee Renauer	Drywall	White Non-Fibrous Non-Homogenous	3% Cellulose	97% Other	None Detected
633900 3A W Wall Entry RM 2 Layer-1 Analyst: Renee Renauer	Tape	White Fibrous Non-Homogenous	100% Other fibrous		None Detected
633900 3A W Wall Entry RM 2 Layer-2 Analyst: Renee Renauer	Mud	White Non-Fibrous Non-Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4020 Ingham St, Lansing, MI

ETC Job : 199873
Client Project : 33-01-01-31-253-161
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633901 3B W Wall Entry RM 2 Layer-1 Analyst: Renee Renauer	Tape	White Fibrous Non-Homogenous	100% Other fibrous		None Detected
633901 3B W Wall Entry RM 2 Layer-2 Analyst: Renee Renauer	Mud	White Non-Fibrous Non-Homogenous	2% Cellulose	98% Other	None Detected
633902 4A E Entry RM 1 Analyst: Renee Renauer	Linoleum	Tan Fibrous Non-Homogenous	90% Cellulose	10% Other	None Detected
633903 4B E Entry RM 1 Analyst: Renee Renauer	Linoleum	Tan Fibrous Non-Homogenous	90% Cellulose	10% Other	None Detected
633904 5A E Entry RM 1 Analyst: Renee Renauer	Mastic	Black Non-Fibrous Non-Homogenous	5% Cellulose	95% Other	None Detected
633905 5B E Entry RM 1 Analyst: Renee Renauer	Mastic	Black Non-Fibrous Non-Homogenous	5% Cellulose	95% Other	None Detected
633906 6A E Side RM 2 Analyst: Renee Renauer	Linoleum	Yellow Fibrous Non-Homogenous	90% Cellulose	10% Other	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/M4-82/020 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.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4020 Ingham St, Lansing, MI

ETC Job : 199873
Client Project : 33-01-01-31-253-161
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633907 6B W Side RM 2 Analyst: Renee Renauer	Linoleum	Yellow Fibrous Non-Homogenous	90% Cellulose	10% Other	None Detected
633908 7A S Wall RM 2 Analyst: Renee Renauer	Sink Undercoat	Black Non-Fibrous Non-Homogenous	1% Cellulose	99% Other	None Detected
633909 7B S Wall RM 2 Analyst: Renee Renauer	Sink Undercoat	Black Non-Fibrous Non-Homogenous	1% Cellulose	99% Other	None Detected
633910 8A E Wall RM 1 Analyst: Renee Renauer	Caulk	White Non-Fibrous Non-Homogenous	1% Cellulose	99% Other	None Detected
633911 8B E Wall RM 1 Analyst: Renee Renauer	Caulk	White Non-Fibrous Non-Homogenous		100% Other	None Detected
633912 9A W Wall RM 6 Analyst: Renee Renauer	12x12 Peel/Stick	Brown/Yellow Non-Fibrous Non-Homogenous	1% Cellulose	99% Other	None Detected
633913 9B E Wall RM 6 Analyst: Renee Renauer	12x12 Peel/Stick	Brown/Yellow Non-Fibrous Non-Homogenous	1% Cellulose	99% Other	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 :
 4020 Ingham St, Lansing, MI

ETC Job : 199873
Client Project : 33-01-01-31-253-161
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633914 10A W Wall RM 6 Analyst: Renee Renauer	12x12 Floor Tile	White Non-Fibrous Non-Homogenous		100% Other	None Detected
633915 10B W Wall RM 6 Analyst: Renee Renauer	12x12 Floor Tile	White Non-Fibrous Non-Homogenous		100% Other	None Detected
633916 12A N Wall RM 5 Analyst: Renee Renauer	Texture Wall	White Non-Fibrous Non-Homogenous	1% Cellulose	99% Other	None Detected
633917 12B S Wall RM 5 Analyst: Renee Renauer	Texture Wall	White Non-Fibrous Non-Homogenous	2% Cellulose	98% Other	None Detected
633918 12C E Wall RM 5 Analyst: Renee Renauer	Texture Wall	White Non-Fibrous Non-Homogenous	2% Cellulose	98% Other	None Detected
633919 11A W Wall RM 6 Analyst: Renee Renauer	Mastic	Black Non-Fibrous Non-Homogenous		100% Other	None Detected
633920 11B W Wall RM 6 Analyst: Renee Renauer	Mastic	Black Non-Fibrous Non-Homogenous		100% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4020 Ingham St, Lansing, MI

ETC Job : 199873
 Client Project : 33-01-01-31-253-161
 Date Collected : 11/28/2017
 Date Received : 12/01/2017
 Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633921 13A E Wall Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Non-Homogenous		100% Other	PC None Detected
633922 13B E Wall Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Non-Homogenous		100% Other	PC None Detected
633923 14A E Roof Analyst: Renee Renauer	Asphalt Shingle	Red Non-Fibrous Non-Homogenous	10% Fiberglass	90% Other	None Detected
633924 14B S Roof Analyst: Renee Renauer	Asphalt Shingle	Red Non-Fibrous Non-Homogenous	12% Fiberglass	88% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Renee Renauer

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/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: **199873**

Client: ETC	Contact: Liv Hagaman	Project Location/Name: 4020 Ingham St Lansing, MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2etl.com	Client Project #: 199873 Date Sampled: 6/28/17
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 A B		
		Please see attached sheets	
	11 A B		
	12 A, B C		
	13 A B		
	14 A B		

	Date	Time
Relinquished (Name/Organization): Jake Glasow	11/28/17	
Received (Name/ETL): <i>[Signature]</i>	12/1/17	8:00 am/pm
Stereoscopical Analysis (Name/ETL): <i>[Signature]</i>	12-5-17	am/pm
Sample Login (Name/ETL): <i>[Signature]</i>	12/5/17	7:30 am/pm
Analysis (Name/ETL): <i>[Signature]</i>	12-5-17	am/pm
QA/QC Review (Name/ETL): <i>[Signature]</i>	12/6/17	am/pm

Special Instructions: _____

Remarks: _____

Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	199873		Building:	4020 Ingham St, Lansing MI		Date:	11/28/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
1	Material: Ceiling tile Description: white w/ worm hole	F	A	Middle S rm1	W33	1, 2, 4, 5	570sf	
2	Material: Drywall Description: white	F	B	Middle N rm1	896			
3	Material: tape & mud Description: white	F	A	S wall entry rm1	898	Throughout 2009 Se		
			B	W wall entry rm2	899			
4	Material: linoleum Description: tan	NF	A	W wall entry rm2	899	Throughout 2009 SF		
			B	W wall entry rm2	900			
5	Material: mastic (under 4) Description: black	F	A	W wall entry rm2	901			
			B	W wall entry rm2	902			
6	Material: linoleum Description: yellow diamond	NF	A	E entry rm1	902	1	12 SF	
			B	E entry rm1	903			
7	Material: Sink undercoat Description: Black	F	A	↓	904	1	12 SF	
			B	↓	905			
8	Material: window caulk Description: white	NF	A	E side rm2	906	2	144 SF	
			B	W side rm2	907			
9	Material: 12x12 P+S Description: Brown + yellow	F	A	S wall rm2	908	2	4 SF	
			B	S wall rm2	909			
10	Material: 12x12 tile Description: white	NF	A	E wall rm1	910	1	window	
			B	E wall rm1	911			
11	Material: 12x12 P+S Description: Brown + yellow	NF	A	W wall rm6	912	3, 6	90 SF	
			B	E wall rm6	913			
12	Material: 12x12 tile Description: white	NF	A	W wall rm6	914	3, 6	90 SF	
			B	W wall rm6	915			

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	Building: 4020 Ingham St Lansing MI			Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
12	Material: texture wall white	F	A	N wall rm 5	5	400 SF	
			B	S wall rm 5			
			C	E wall rm 5			
	Material:						
	Material:						
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

3642

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/201

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
11	Material: mastic (under 10)		F	A	w wall v m 6	11/20/16	316,514	90sf	
	Description			B					
	Material: black black		F	A	ATLANTIC		85		
	Description			B	SEALANT				
13	Material: window glaze		F	A	e wall 921				
	Description			B	e wall 922		EXT	1 window	
14	Material: asphalt shingle		NF	A	e roof 923				
	Description			B	s roof 924		EXT	150 SF	
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					

2 samples

46f4

Attachment:

Inspection Procedures

Pre-Demolition Environmental 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

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

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**.

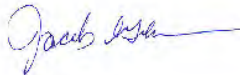
Laboratory Analysis / Results

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**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.



Prepared by: _____

Jake Gleason, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-49991

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
 3024 Turner Street
 Lansing, MI 48906

Parcel:	33-01-01-31-276-001
House No:	3907 Ingham St., Lansing, MI 48911
Date Inspected:	12/3/2017 & 2/16/2018
Inspected By:	Jake Gleason & Joe Reynolds
Inspectors State Card #	A-49991 & A-49992

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1200 SF	Garage Square Footage	NA
Basement Square Footage	1200 SF	Garage Siding	NA
Siding	Aluminum	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt Shingles	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-276-001
House No. 3907 Ingham St., Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Freezer	1	Room 2
Misc. Items (solvents, cleaners)	1	Room 2
Smoke Detector	1	Room 4
Thermostats	2	Room 4

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-31-276-001
House No.	3907 Ingham St., Lansing, MI 48911
Date Inspected:	12/3/2017 & 2/16/2018

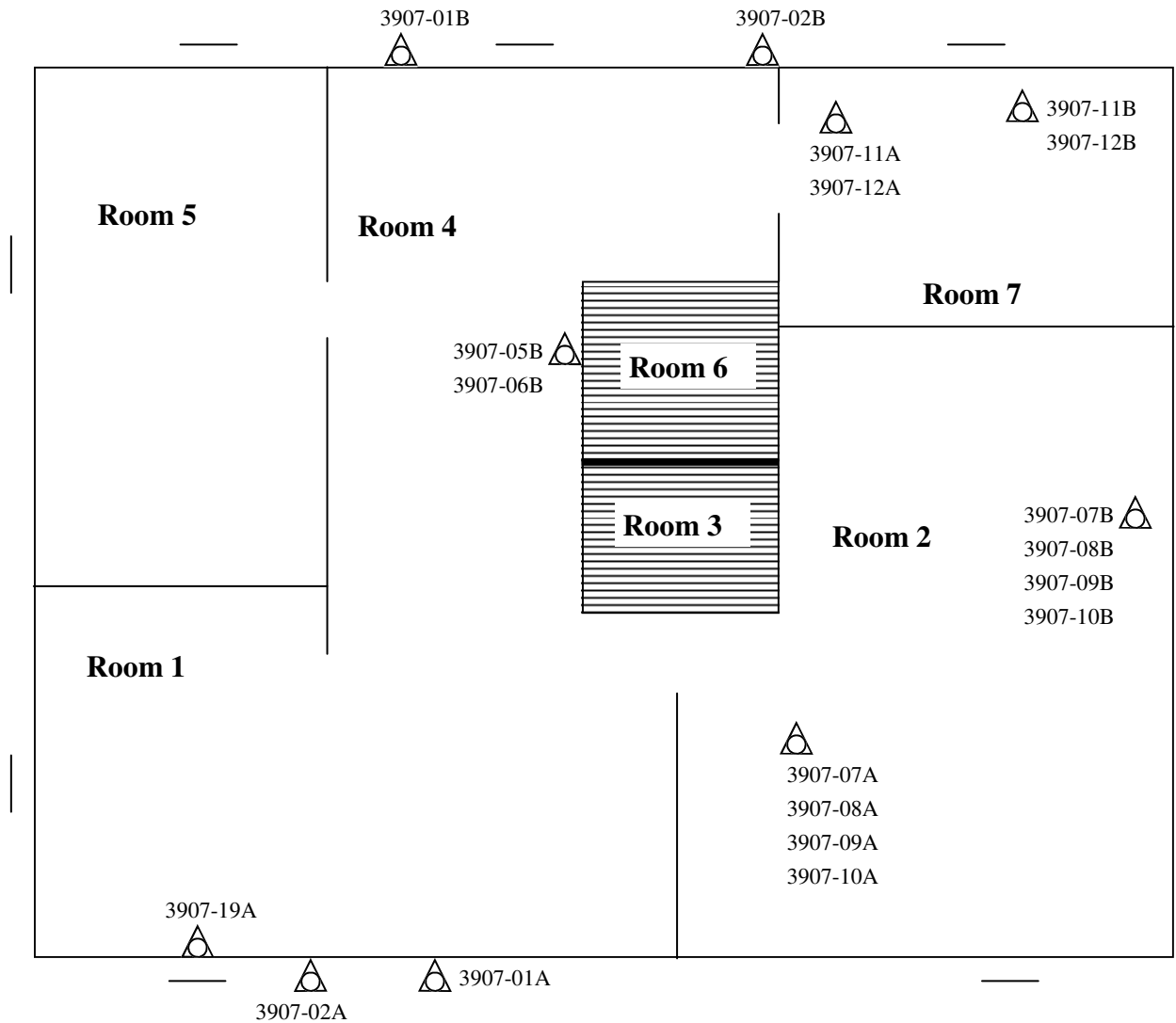
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Fiberboard, brown	Exterior	750 SF	No
2	NF	Shingle, white	Exterior (house)	900 SF	No
3	NF	Shingle, black	Exterior (shed)	100 SF	No
4	F	Insulation, brown cellulose	Throughout	450 SF	No
5	NF	Drywall tape, white paper	Throughout	50 SF	No
6	F	Drywall mud, white	Throughout	550 SF	No
7	NF	Linoleum, yellow/blue	Room 2	105 SF	YES
8	NF	Mastic, tan	Room 2	105 SF	YES
9	NF	Linoleum, tan	Room 2	105 SF	No
10	NF	Mastic, tan	Room 2	105 SF	No
11	NF	Linoleum, tan/blue	Room 7	40 SF	No
12	NF	Mastic, tan	Room 7	4 SF	No
13	NF	9x9 Tile, tan	Room 8, 9	105 SF	YES
14	NF	Mastic, black	Room 8, 9	105 SF	No
15	NF	12x12 Tile, beige	Room 8	15 SF	YES
16	NF	12x12 Floor tile, brown	Room 10	200 SF	YES
17	NF	Mastic, black	Room 10	200 SF	No
18	NF	Stack cement, grey	Room 10	1 SF	No
19	NF	Drywall, tan/white	Throughout	4200 SF	No

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 estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

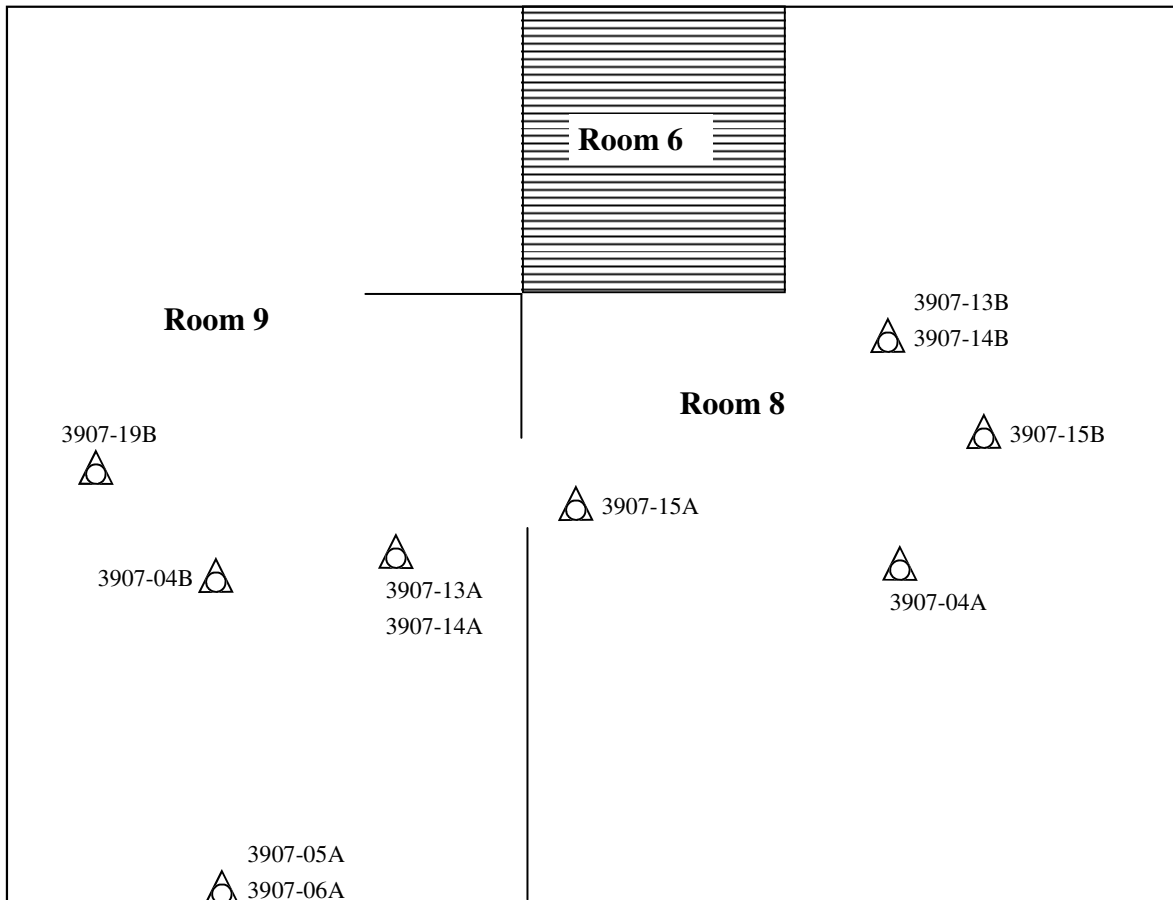
Attachment:

Site Drawing



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

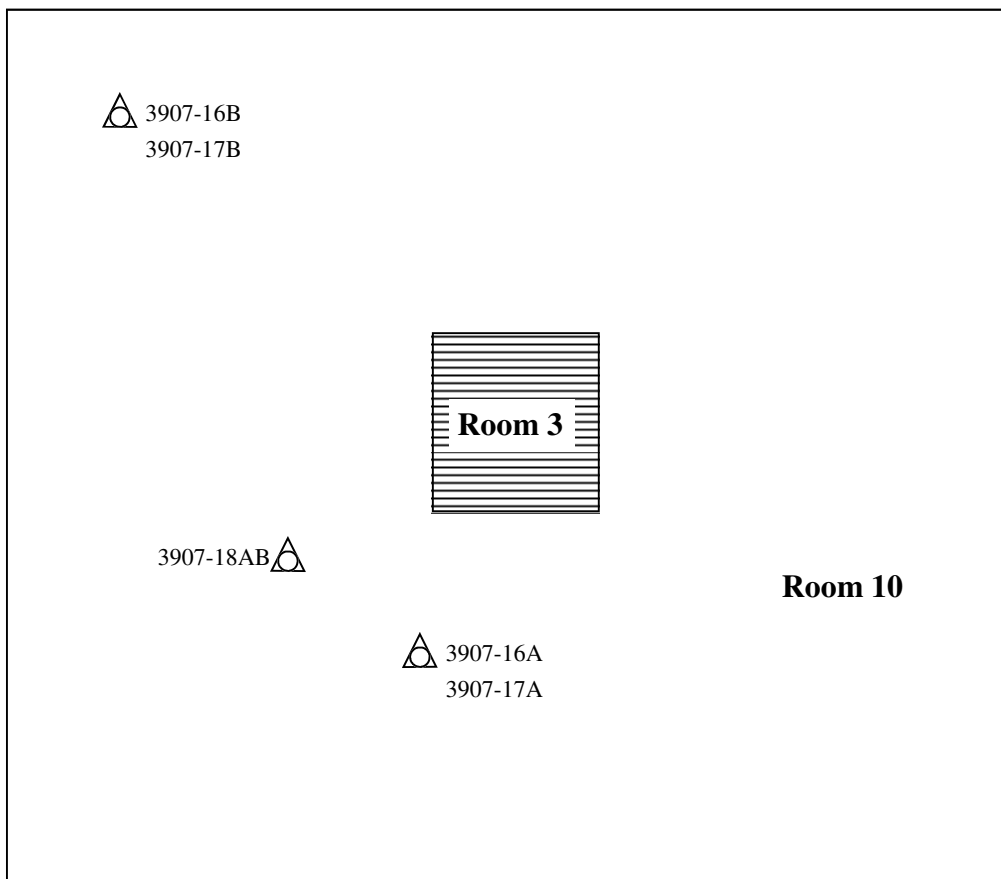


 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Basement

33-01-01-31-276-001
3907 Ingham St., Lansing, MI 48911
12/3/2017 & 2/16/2018



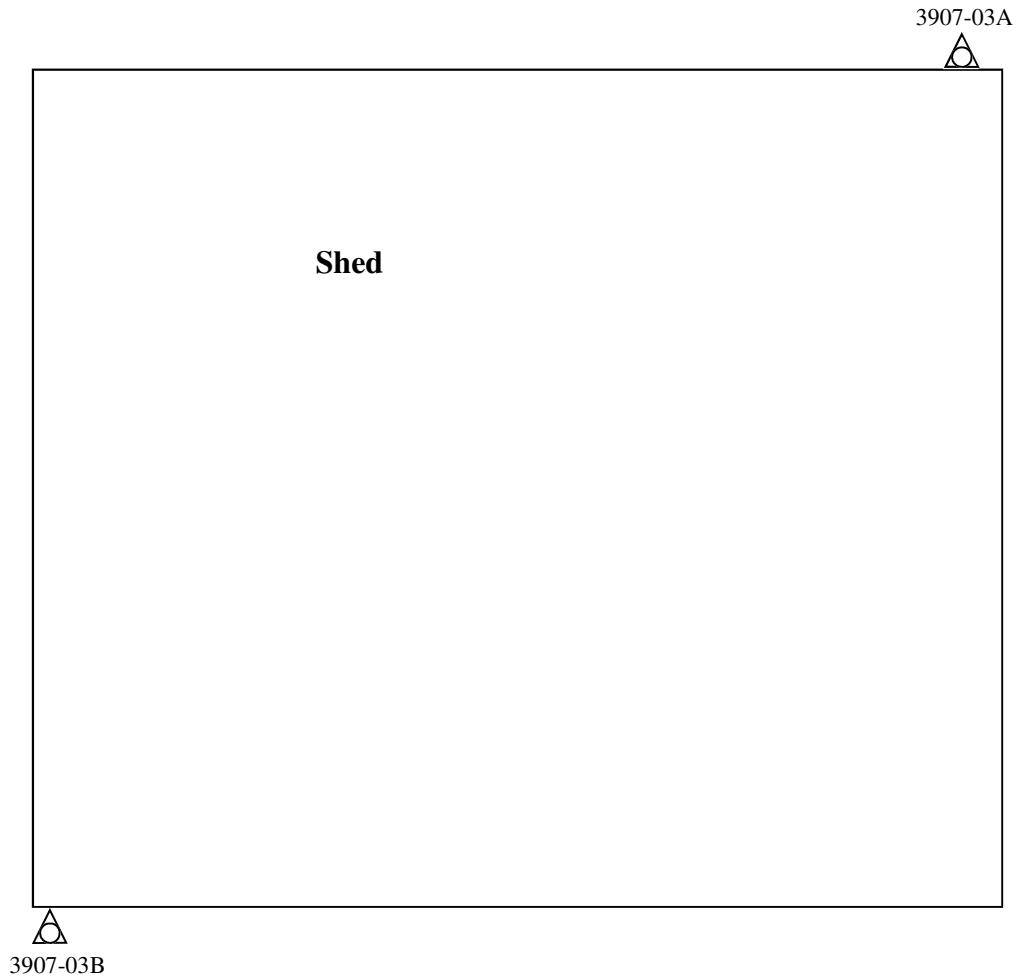
 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199874

Shed

33-01-01-31-276-001
3907 Ingham St., Lansing, MI 48911
12/3/2017 & 2/16/2018



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199874

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-31-276-001
House No. 3907 Ingham St., Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel: 33-01-01-31-276-001
House No. 3907 Ingham St., Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Shed

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-31-276-001
House No. 3907 Ingham St., Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Freezers



Misc. Items (solvents, cleaners, etc)



Smoke Detectors



Thermostats

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-31-276-001
House No. 3907 Ingham St., Lansing, MI 48911
Date Inspected: 12/3/2017 & 2/16/2018



Linoleum, yellow/blue; Mastic



9x9 Tile, tan



12x12 Tile, beige



12x12 Tile, brown

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

REVISED REPORT

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
3907 Ingham St, Lansing, MI

Attention :

Client Project : 33-01-01-31-276-001

ETC Job : 199874

Report Date : 3/12/2018

Login #	Sample ID	Work Requested	Completed
634618	1A	Asbestos Analysis	12/07/2017
634619	1B	Asbestos Analysis	12/07/2017
634620	2A	Asbestos Analysis	12/07/2017
634621	2B	Asbestos Analysis	12/07/2017
634622	3A	Asbestos Analysis	12/07/2017
634623	3B	Asbestos Analysis	12/07/2017
688528	4A	Asbestos Analysis	12/07/2017
688529	4B	Asbestos Analysis	02/23/2018
688530	5A	Asbestos Analysis	02/23/2018
688531	5B	Asbestos Analysis	02/23/2018
688532	6A	Asbestos Analysis	02/23/2018
688533	6B	Asbestos Analysis	02/23/2018
688534	7A	Asbestos Analysis	02/23/2018
688535	7B	Asbestos Analysis	02/23/2018
688536	8A	Asbestos Analysis	02/23/2018
688537	8B	Asbestos Analysis	02/23/2018
688538	9A	Asbestos Analysis	02/23/2018
688539	9B	Asbestos Analysis	02/23/2018
688540	10A	Asbestos Analysis	02/23/2018
688541	10B	Asbestos Analysis	02/23/2018

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Login #	Sample ID	Work Requested	Completed
688542	11A	Asbestos Analysis	02/23/2018
688543	11B	Asbestos Analysis	02/23/2018
688544	12A	Asbestos Analysis	02/23/2018
688545	12B	Asbestos Analysis	02/23/2018
688546	13A	Asbestos Analysis	02/23/2018
688547	13B	Asbestos Analysis	02/23/2018
688548	14A	Asbestos Analysis	02/23/2018
688549	14B	Asbestos Analysis	02/23/2018
688550	15A	Asbestos Analysis	02/23/2018
688551	15B	Asbestos Analysis	02/23/2018
688552	16A	Asbestos Analysis	02/23/2018
688553	16B	Asbestos Analysis	02/23/2018
688554	17A	Asbestos Analysis	02/23/2018
688555	17B	Asbestos Analysis	02/23/2018
688556	18A	Asbestos Analysis	02/23/2018
688557	18B	Asbestos Analysis	02/23/2018
688558	19A	Asbestos Analysis	02/23/2018
688559	19B	Asbestos Analysis	02/23/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 3907 Ingham St, Lansing, MI

ETC Job : 199874
Client Project : 33-01-01-31-276-001
Date Collected : 12/03/2017
Date Received : 12/05/2017
Date Analyzed : 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634618 1A E By Entry Analyst: Sarah Poirier	Fiber Board	Brown Fibrous Homogenous	98% Cellulose	2% Other	None Detected
634619 1B W Middle Analyst: Sarah Poirier	Fiber Board	Brown Fibrous Homogenous	98% Cellulose	2% Other	None Detected
634620 2A E Side Analyst: Sarah Poirier	Shingle	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
634621 2B W Side Analyst: Sarah Poirier	Shingle	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
634622 3A SE Corner Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	25% Cellulose	75% Other	None Detected
634623 3B NW Corner Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
688528 4A Ceiling 8 Center Analyst: Daniel Agnew	Insulation	Brown Fibrous Homogenous	100% Cellulose		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 :
 3907 Ingham St, Lansing, MI

ETC Job : 199874
Client Project : 33-01-01-31-276-001
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688529 4B Ceiling 9 Center Analyst: Daniel Agnew	Insulation	Brown Fibrous Homogenous	100% Cellulose		None Detected
688530 5A Wall West 9 Analyst: Daniel Agnew	Drywall Tape	White Fibrous Homogenous	100% Cellulose		None Detected
688531 5B Wall South 4 Analyst: Daniel Agnew	Drywall Tape	White Fibrous Homogenous	100% Cellulose		None Detected
688532 6A Wall West 9 Analyst: Daniel Agnew	Drywall Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688533 6B Wall South 4 Analyst: Daniel Agnew	Drywall Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688534 7A Kit 2 North Analyst: Daniel Agnew	Linoleum	Grey Fibrous Homogenous	55% Cellulose	5% Other	40% Chrysotile
688535 7B Kit 2 South Analyst: Daniel Agnew		Not Analyzed			

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 3907 Ingham St, Lansing, MI

ETC Job : 199874
Client Project : 33-01-01-31-276-001
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688536 8A Kit 2 North Analyst: Daniel Agnew	Mastic	Yellow Non-Fibrous Homogenous	20% Cellulose	50% Other	30% Chrysotile
688537 8B Kit 2 South Analyst: Daniel Agnew		Not Analyzed			
688538 9A Kit 2 North Analyst: Daniel Agnew	Linoleum	Beige Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
688539 9B Kit 2 South Analyst: Daniel Agnew	Linoleum	Beige Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
688540 10A Kit 2 North Analyst: Daniel Agnew	Mastic	Yellow Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
688541 10B Kit 2 South Analyst: Daniel Agnew	Mastic	Yellow Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
688542 11A N Entry 7 Analyst: Daniel Agnew	Linoleum	Beige Non-Fibrous Homogenous	35% Cellulose	65% Other	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 :
 3907 Ingham St, Lansing, MI

ETC Job : 199874
Client Project : 33-01-01-31-276-001
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688543 11B E Wall 7 Analyst: Daniel Agnew	Linoleum	Beige Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
688544 12A N Entry 7 Analyst: Daniel Agnew	Mastic	Tan Non-Fibrous Homogenous	25% Cellulose	75% Other	None Detected
688545 12B E Entry 7 Analyst: Daniel Agnew	Mastic	Tan Non-Fibrous Homogenous	35% Cellulose	65% Other	None Detected
688546 13A Floor Rm 9 Center Analyst: Daniel Agnew	9x9 Tile	Tan Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile
688547 13B Floor Rm 8 Center Analyst: Daniel Agnew		Not Analyzed			
688548 14A Floor RM 9 Center Analyst: Daniel Agnew	Mastic	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
688549 14B Floor RM 8 Center Analyst: Daniel Agnew	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	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 :
 3907 Ingham St, Lansing, MI

ETC Job : 199874
Client Project : 33-01-01-31-276-001
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688550 15A Floor RM 8 N Analyst: Daniel Agnew	12x12 Tile	Beige Non-Fibrous Homogenous	2% Cellulose	95% Other	3% Chrysotile
688551 15B Floor Rm 8 Center Analyst: Daniel Agnew		Not Analyzed			
688552 16A Bsmt Floor Center Analyst: Daniel Agnew	Floor Tile 12x12	Brown Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile
688553 16B Bsmt Floor NE Analyst: Daniel Agnew		Not Analyzed			
688554 17A Bsmt Floor Center Analyst: Daniel Agnew	Mastic	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688555 17B Bsmt Floor NE Analyst: Daniel Agnew	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688556 18A Bsmt Chimney Center Analyst: Daniel Agnew	Stack Cement	Grey Non-Fibrous Homogenous		100% Other	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 :
 3907 Ingham St, Lansing, MI

ETC Job : 199874
Client Project : 33-01-01-31-276-001
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/23/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688557 18B Bsmt Chimney Center Analyst: Daniel Agnew	Stack Cement	Grey Non-Fibrous Homogenous		100% Other	None Detected
688558 19A RM 1 W Wall Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688559 19B RM 9 Ceiling Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Daniel Agnew



Analyst: Sarah Poirier

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/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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/M4-82/020 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.

ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etil.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199874

Client: ETC	Contact: Liu Hagerman	Project Location/name: 3907 Ingham st Lansing, MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	Client Project #: 199874
	Fax: (734) 955-6604	Date Sampled: 12/3/17
	E-mail: results@2etc.com	
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other

PLM Instructions
 (Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
634618	01 A-B	Please see Attached sheets	
↓	↓		
634623	04-A-B		

	Date	Time
Relinquished (Name/Organization): Jake Gleason	12/3/17	5:00 am/pm
Received (Name/ETL): [Signature]	12/5/17	11:30 am/pm
Stereoscopical Analysis (Name/ETL): Sarah Kovner	12/6/17	am/pm
Sample Login (Name/ETL): [Signature]	12/5/17	am/pm
Analysis (Name/ETL): Sarah Kovner	12/6/17	am/pm
QA/QC Review (Name/ETL): Sam Woodman	12/7/17	am/pm

Special Instructions:	Remarks:
------------------------------	-----------------

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199874		Building: 3907 Ingham St, Lansing MI		Date: 12/3/12			
	Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: fiberboard	Description	f	A	e by entry 63468	ext	750	
	Description			B	w middle 19			
2	Material: shingle	Description	NF	A	e side 20	ext house	600	
	Description			B	w side 21			
3	Material: shingle	Description	NF	A	SE corner 22	ext shed	100	
	Description			B	NW corner 634623			
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					

2 samples

Zofz

**Bulk Asbestos
 Chain of Custody**

ETL Project #: **199874**

Client: ETC	Contact:	Project Location/Name: 3907 FISHAM ST LANSING, MI 48911
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2efl.com	Client Project #: 199874
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: 2-16-18

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other

PLM Instructions
 (Check all that apply)

- | | |
|---|---|
| <input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method) | <input checked="" type="checkbox"/> Stop at 1st Positive -
Clearly mark Homogenous Group |
| <input type="checkbox"/> Point Counting: 400 Points* | <input type="checkbox"/> Soil or Vermiculite Analysis * |
| <input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape) | |
- * Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	4AB		
	↓		
	19AB		

	Date	Time
Relinquished (Name/Organization): <i>[Signature]</i>	2-16-18	4:00 am/pm
Received (Name/ETL): <i>Beverly Sepacillo</i>	2-19-18	am/pm
Stereoscopical Analysis (Name/ETL): <i>Daniel My...</i>	2-23-18	am/pm
Sample Login (Name/ETL): <i>Beverly Sepacillo</i>	2-19-18	am/pm
Analysis (Name/ETL): <i>Daniel My...</i>	2-23-18	am/pm
CAVQC Review (Name/ETL): <i>Bethany Walls</i>	2/23/18	3:45 am/pm
Special Instructions:	Remarks	

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199874	Building:	3907 Ingborn St, Lansing MI	Date:	2-16-18		
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Fiberboard brown	F	A	E bay entry 634K	ext	750	
2	shiny white	NF	A	e side	ext		
3	shiny white	NF	B	w side	house	600	
4	shiny white velach	NF	B	SE corner	ext	100	
4	Insulation	F	A	ceiling 9 Center	ceiling	450	688528
5	Brown Cellulose	NF	B	Ceiling 9 Center			529
6	drywall tape	NF	A	wall west 9	throughout	350	530
6	white paper	F	B	wall south 4			531
6	drywall mud	F	A	wall west 9	throughout	350	532
6	white	F	B	wall south 4			533
7	linoculum	NF	A	wall west 9	2	105	534
7	yellow-blue	NF	B	wall south 4			535
8	MASTIC - ABOVE	NF	A	KIT 2 NORTH	2	105	536
8	TAN	NF	B	KIT 2 SOUTH			537
9	LINOLUUM	NF	A	KIT 2 SOUTH	2	105	538
9	TAN	NF	B	KIT 2 NORTH			539
10	MASTIC - ABOVE	NF	A	KIT 2 SOUTH	2	105	540
10	TAN	NF	B	KIT 2 NORTH			541

2 samples

2 of 2
3 of 3

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Building:		Sample Letter	Sample Location	Date:	Quantity	Picture #
Material no.	Friable (F) / Non-Friable (NF)	Material Description			(Please List all Rooms)		
11	NF	Material: Linoilum Description: Tan + Blue	A	NORTH ENTRY	7	40 ^{SE}	688542
12	NF	Material: MASTIC Description: TAN	B	EAST WALL	7	45 ^F	543
13	NF	Material: 9x9 TILE Description: TAN	A	NORTH ENTRY	7		544
14	NF	Material: MASTIC Description: BLACK	B	FLOOR Rm 9 Center	9, 8	105 ^{SE}	545
15	NF	Material: 12x12 TILE Description: Beige sevens	A	FLOOR Rm 8 Center	9, 8	105 ^{SE}	546
16	NF	Material: Floor tile 12x12 Description: Brown	B	FLOOR Rm 8 Center	8	15 ^{SE}	547
17	NF	Material: MASTIC - Description: black	A	FLOOR Rm 8 North			548
18	NF	Material: Gray Cement Description: Grey Cement	B	Bsmt Floor Center			549
19	NF	Material: Drywall Description: TAN / WHITE	A	Bsmt Floor NE	10	200 ^{SE}	550
			B	Bsmt Floor Center	8	2 ^{SE}	551
			A	Bsmt Floor Center	10	200 ^{SE}	552
			B	Bsmt Floor NE	10	200 ^{SE}	553
			A	Bsmt Chimney Center			554
			B	Bsmt Chimney Center			555
			A	Rm 1 west wall	10	1 ^{SE}	556
			B	Rm 9 ceiling	throughout All Rm's.	3500 ^{SE}	557
			A				558
			B				559

LABSIVE

3907 100 HAM ST

2-16-18

Attachment:

Inspection Procedures

Pre-Demolition Environmental 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

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

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**.

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**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.

Prepared by:  

Jake Gleason & Joe Reynolds, Michigan Certified Asbestos Inspector (s)
Michigan Accreditation Number (s) A-49991 & A-49992

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
 3024 Turner Street
 Lansing, MI 48906

Parcel:	33-01-01-31-276-111
House No:	2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected:	11/28/2017
Inspected By:	Jake Gleason
Inspectors State Card #	A-49991

Building Information			
No. Stories	1	Garage	Detached
Square Footage	700 SF	Garage Square Footage	300 SF
Basement Square Footage	No Basement	Garage Siding	Aluminum
Siding	Aluminum	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-276-111
House No. 2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected: 11/28/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
TV, Electronics	2	Room 1
Smoke Detector	1	Room 1
Thermostat	1	Room 4

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-31-276-111
House No.	2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected:	11/28/2017

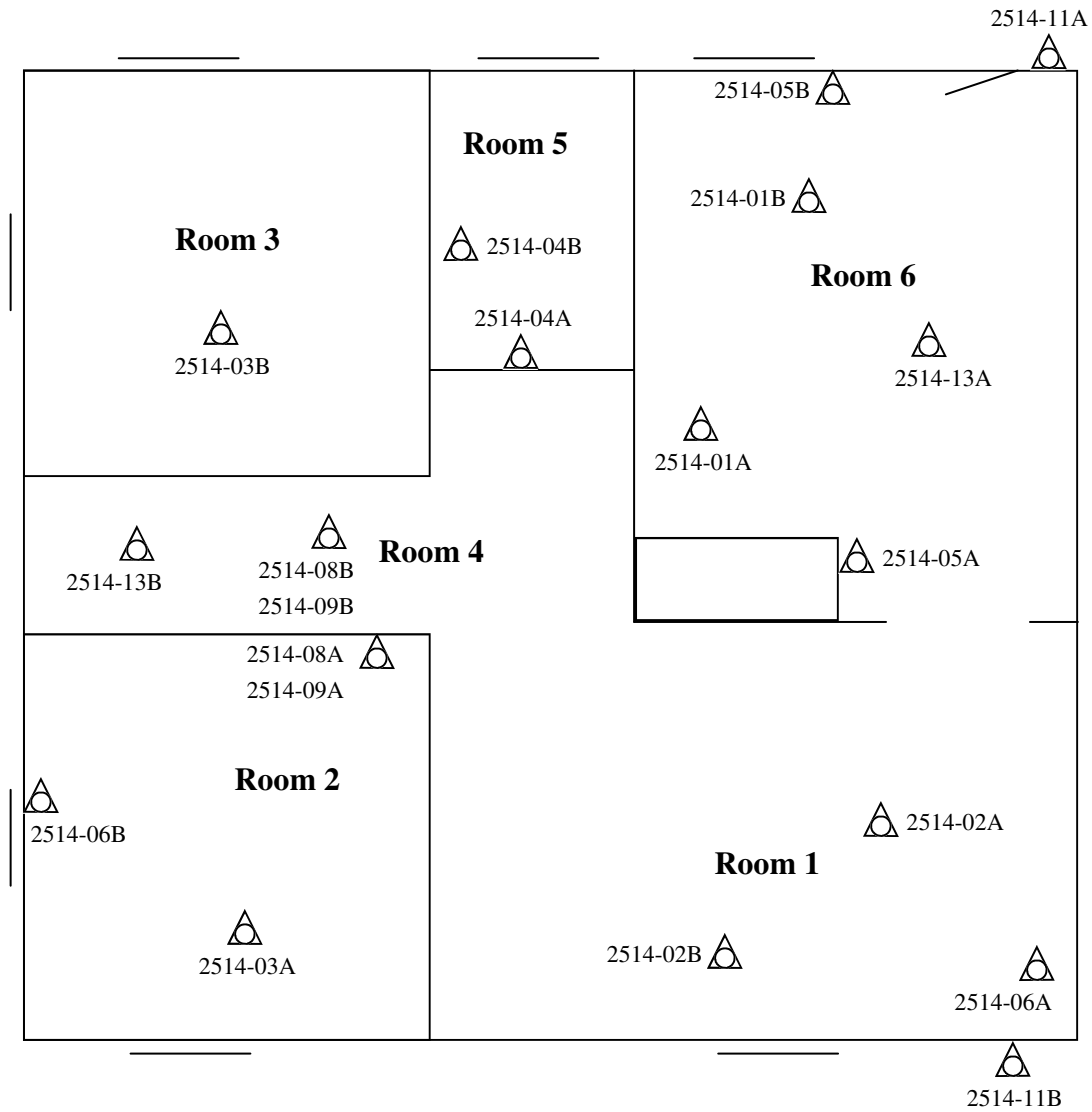
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Ceiling tile, white	Room 6	144 SF	No
2	F	Ceiling tile, white	Room 1	180 SF	No
3	F	Ceiling tile, white with holes	Room 2-4	300 SF	No
4	NF	Linoleum, tan/brown	Room 5	72 SF	No
5	NF	Linoleum, gold/tan	Room 6	144 SF	No
6	F	Drywall, tan/white	Throughout	2200 SF	No
7	F	Garage wrap, brown fiber	Exterior (garage)	300 SF	No
8	NF	9x9 Floor tile, grey	Room 2-4	300 SF	YES
9	NF	Mastic, black (under 8)	Room 2-4	300 SF	No
10	NF	Window glaze, white	Exterior (garage)	2 windows	No
11	F	Asphalt shingle, grey/black	Exterior (house)	1300 SF	No
12	F	Asphalt shingle, black	Exterior (garage)	450 SF	No
13	NF	Concrete floor, grey	Room 4, 6	700 SF	No

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 estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

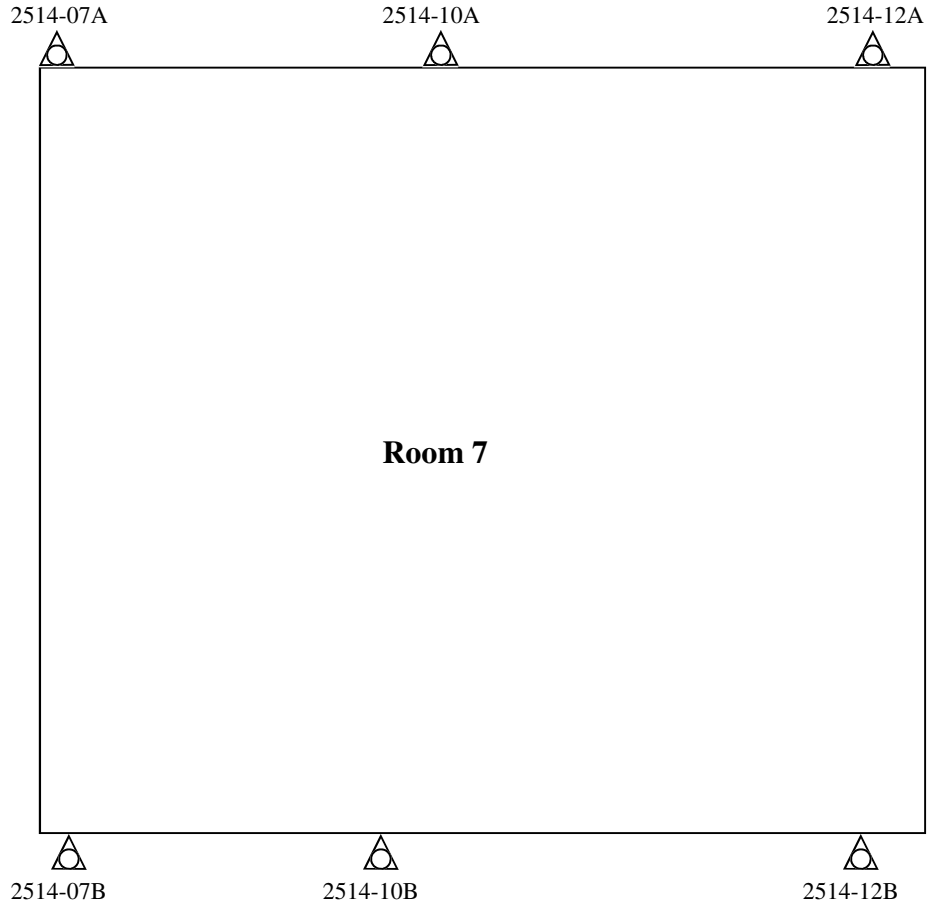



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Garage

33-01-01-31-276-111
2514 Greenbelt Dr, Lansing, MI 48911
11/28/2017



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199875

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-31-276-111
House No. 2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected: 11/28/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-31-276-111
House No.	2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected:	11/28/2017



Garage

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-31-276-111
House No. 2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected: 11/28/2017



TV Screen, Electronics



Smoke Detector



Thermostat

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-31-276-111
House No.	2514 Greenbelt Dr, Lansing, MI 48911
Date Inspected:	11/28/2017



9x9 Floor Tile

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
2514 Greenbelt Dr, Lansing, MI

Attention :

Client Project : 33-01-01-31-276-111

ETC Job : 199875

Report Date : 12/6/2017

Login #	Sample ID	Work Requested	Completed
633565	01A	Asbestos Analysis	12/06/2017
633566	01B	Asbestos Analysis	12/06/2017
633567	02A	Asbestos Analysis	12/06/2017
633568	02B	Asbestos Analysis	12/06/2017
633569	03A	Asbestos Analysis	12/06/2017
633570	03B	Asbestos Analysis	12/06/2017
633571	04A	Asbestos Analysis	12/06/2017
633572	04B	Asbestos Analysis	12/06/2017
633573	05A	Asbestos Analysis	12/06/2017
633574	05B	Asbestos Analysis	12/06/2017
633575	06A	Asbestos Analysis	12/06/2017
633576	06B	Asbestos Analysis	12/06/2017
633577	07A	Asbestos Analysis	12/06/2017
633578	07B	Asbestos Analysis	12/06/2017
633579	08A	Asbestos Analysis	12/06/2017
633580	08B	Asbestos Analysis	12/06/2017
633581	09A	Asbestos Analysis	12/06/2017
633582	09B	Asbestos Analysis	12/06/2017
633583	10A	Asbestos Analysis	12/06/2017
633584	10B	Asbestos Analysis	12/06/2017

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.

Login #	Sample ID	Work Requested	Completed
633585	11A	Asbestos Analysis	12/06/2017
633586	11B	Asbestos Analysis	12/06/2017
633587	12A	Asbestos Analysis	12/06/2017
633588	12B	Asbestos Analysis	12/06/2017
633589	13A	Asbestos Analysis	12/06/2017
633590	13B	Asbestos Analysis	12/06/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2514 Greenbelt Dr, Lansing, MI

ETC Job : 199875

Client Project : 33-01-01-31-276-111

Date Collected : 11/28/2017

Date Received : 12/01/2017

Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633565 01A Ceiling Kit Analyst: Ian McCusker	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
633566 01B Ceiling Kit Analyst: Ian McCusker	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
633567 02A Ceiling Liv Analyst: Ian McCusker	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
633568 02B Ceiling Liv Analyst: Ian McCusker	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
633569 03A Ceiling Bed Analyst: Ian McCusker	Ceiling Tile - holes	White Fibrous Homogenous	100% Cellulose		None Detected
633570 03B Ceiling Bed Analyst: Ian McCusker	Ceiling Tile - holes	White Fibrous Homogenous	100% Cellulose		None Detected
633571 04A Bath Floor Analyst: Ian McCusker	Linoleum	Tan/Brown Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2514 Greenbelt Dr, Lansing, MI

ETC Job : 199875
Client Project : 33-01-01-31-276-111
Date Collected : 11/28/2017
Date Received : 12/01/2017
Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633572 04B Floor Analyst: Ian McCusker	Linoleum	Tan/Brown Fibrous Homogenous	20% Cellulose	80% Other	None Detected
633573 05A Floor Kit Analyst: Ian McCusker	Linoleum	Tan/Gold Fibrous Homogenous	60% Cellulose	40% Other	None Detected
633574 05B Floor Analyst: Ian McCusker	Linoleum	Tan/Gold Fibrous Homogenous	50% Cellulose	50% Other	None Detected
633575 06A Walls Analyst: Ian McCusker	Drywall	Tan/White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
633576 06B Walls Analyst: Ian McCusker	Drywall	Tan/White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
633577 07A North Side Analyst: Ian McCusker	Garage Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected
633578 07B South Side Analyst: Ian McCusker	Garage Wrap	Brown Fibrous Homogenous	97% Cellulose	3% Other	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/M4-82/020 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.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2514 Greenbelt Dr, Lansing, MI

ETC Job : 199875

Client Project : 33-01-01-31-276-111

Date Collected : 11/28/2017

Date Received : 12/01/2017

Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633579 08A RM 2 @ Door Analyst: Ian McCusker	9x9 Floor Tile	Grey Non-Fibrous Homogenous	3% Cellulose	93% Other	4% Chrysotile
633580 08B RM 4 Center of Floor Analyst: Ian McCusker		Not Analyzed			
633581 09A RM 2 @ Door Analyst: Ian McCusker	Mastic	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
633582 09B RM 4 Center of Floor Analyst: Ian McCusker	Mastic	Black Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
633583 10A Garage North Window Analyst: Ian McCusker	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
633584 10B Garage South Window Analyst: Ian McCusker	Window Glaze	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
633585 11A North Side Analyst: Ian McCusker	Asphalt Shingle	Grey/Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

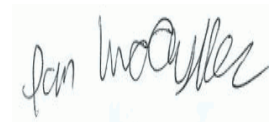
Location :
 2514 Greenbelt Dr, Lansing, MI

ETC Job : 199875
 Client Project : 33-01-01-31-276-111
 Date Collected : 11/28/2017
 Date Received : 12/01/2017
 Date Analyzed : 12/06/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
633586 11B South Side Analyst: Ian McCusker	Asphalt Shingle	Grey/Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
633587 12A North Side Analyst: Ian McCusker	Asphalt Shingle	Black Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
633588 12B South Side Analyst: Ian McCusker	Asphalt Shingle	Black Non-Fibrous Homogenous		100% Other	None Detected
633589 13A Poured Slab Analyst: Ian McCusker	Concrete Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
633590 13B Poured Slab Analyst: Ian McCusker	Concrete Floor	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Ian McCusker

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/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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/M4-82/020 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.

ENVIRONMENTAL TESTING LABORATORIES, INC
 38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2etil.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199875

Client: ETC	Contact: Liv Hagerman	Project Location/Name: 2514 Greenbelt Dr Lansing MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2etil.com	Client Project #: 199875 Date Sampled: 11/28/17

Please Provide Results: Email Fax Verbal Other _____

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
(Check all that apply)

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	<input type="checkbox"/> Soil or Vermiculite Analysis *
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 A-B		
		Please see attached	Sheets
	13 A-B		

	Name/Organization	Date	Time
Relinquished (Name/Organization):	Jake Gleason	11/28/17	5:40 am/pm
Received (Name/ETL):	[Signature]	12/1/17	4:30 am/pm
Stereoscopical Analysis (Name/ETL):	[Signature] for [Signature]	12/4/17	4:30 am/pm
Sample Login (Name/ETL):	[Signature]	12/4/17	4:00 am/pm
Analysis (Name/ETL):	[Signature] for [Signature]	12/4/17	4:30 am/pm
QA/QC Review (Name/ETL):	[Signature]	12/6/17	am/pm

Special Instructions: _____

Remarks: _____

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199875			2514 Greenbelt Dr, Lansing, MI				11/28/17			
01	Material: Ceiling Tile Description: White	F	A	Ceiling Kit	Rm 6	144 SF				
02	Material: Ceiling Tile Description: White	F	B	Ceiling Kit	Rm 1	180				
03	Material: Ceiling Tile Description: White / Poles	F	A	Ceiling Kit	Rm 2, 3, 4	300				
04	Material: Linoleum Description: Tan/Brown	NF	B	Ceiling Kit	Rm 5	72				
05	Material: Linoleum Description: Gold/Tan	NF	A	Ceiling Kit	Rm 6	144				
06	Material: Drywall Description: Tan/White	F	A	Ceiling Kit	Throughout	2200				
07	Material: Garage Wraps Description: Brown Fiber	F	B	Ceiling Kit	EXT GARAGE	300				
08	Material: Floor Tiles Description: 9x9 Grey	NF	A	Ceiling Kit	2, 3, 4	300				
09	Material: Floor Tile Mastic Description: Beach	NF	B	Ceiling Kit	2, 3, 4	300				
10	Material: Window Glazing Description: White	NF	A	Ceiling Kit	Garage North Window	2				
			B	Ceiling Kit	Garage South Window	2				

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building: 2514 Greenbelt Dr, Lansing MI		Date: 11/20/07	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			Friable (F) / Non-Friable (NF)	Sample Letter				
11	Material: Description	ASPHALT Shingle	F	A	6xt.	1300		
	Material: Description	Asphalt Grey/Black		B				House
12	Material: Description	Asphalt Shingle Black	F	A	6xt	450		
	Material: Description	CONCRETE Floor		B				Garage
13	Material: Description	coney	NF	A	06/04	700		
	Material: Description			B				
	Material: Description			A				
	Material: Description			B				
	Material: Description			A				
	Material: Description			B				
	Material: Description			A				
	Material: Description			B				
	Material: Description			A				
	Material: Description			B				
	Material: Description			A				
	Material: Description			B				

Attachment:

Inspection Procedures

Pre-Demolition Environmental 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

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

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**.

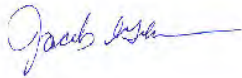
Laboratory Analysis / Results

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**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.



Prepared by: _____

Jake Gleason, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-49991

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-31-276-121
House No:	2510 Greenbelt St, Lansing, MI 48911
Date Inspected:	11/27/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	1	Garage	Detached
Square Footage	689	Garage Square Footage	756 SF
Basement Square Footage	No Basement	Garage Siding	Wood
Siding	Vinyl	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingles
Roof Shingles	Asphalt Shingles	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-276-121
House No. 2510 Greenbelt St, Lansing, MI 48911
Date Inspected: 11/27/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Refrigerator	1	Room 9
TV	2	Room 1, 9
Paint Cans	3 (gallon)	Room 3
Smoke Detector	1	Room 2
Thermostat	1	Room 1

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-276-121
 House No. 2510 Greenbelt St, Lansing, MI 48911
 Date Inspected: 11/27/2017

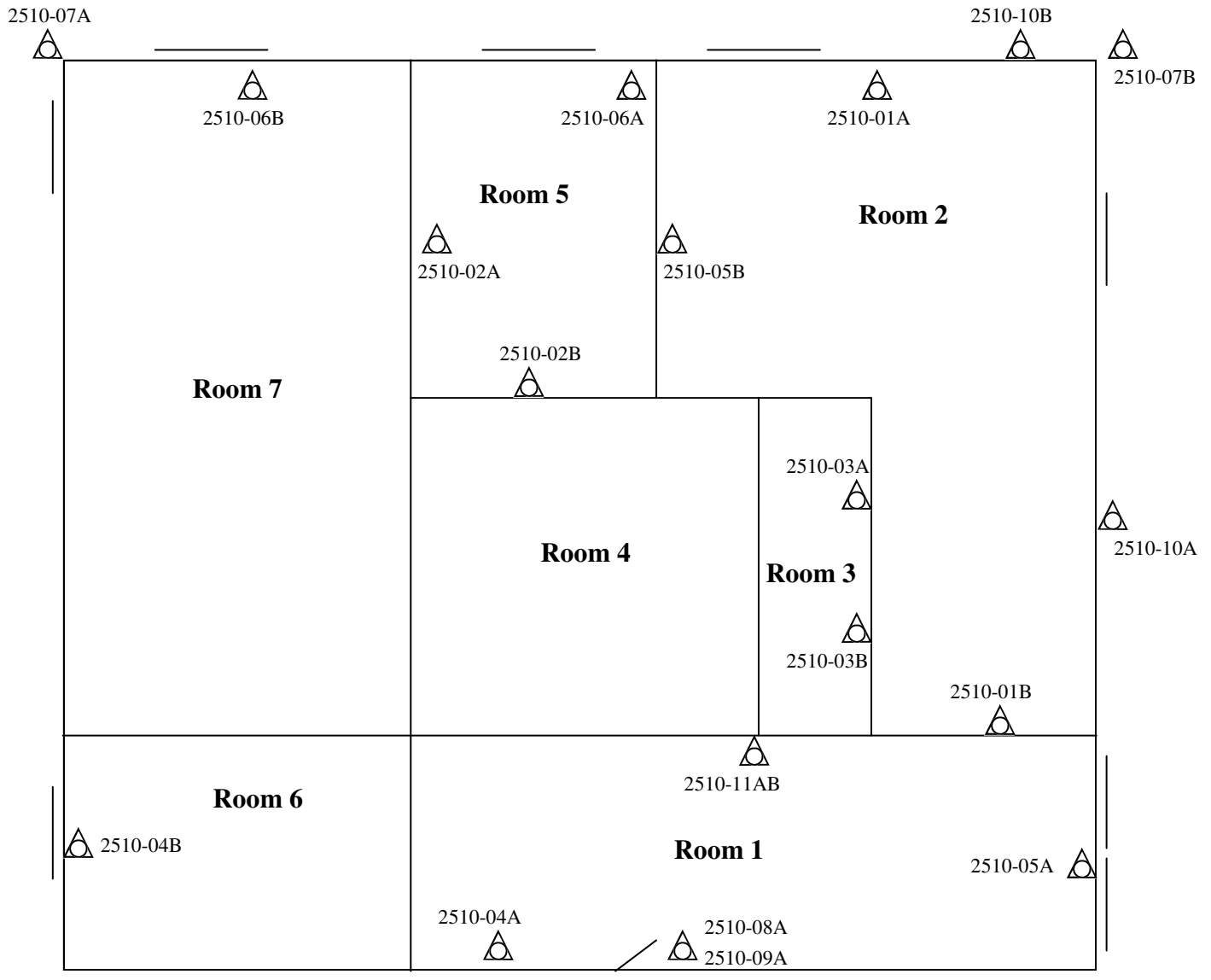
TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Linoleum, white and grey	Room 2	159 SF	No
2	NF	Linoleum, black/grey	Room 5	81 SF	No
3	NF	9x9 Floor tile, black	Room 3	36 SF	YES
4	F	Dry wall, white	Throughout	2656 SF	No
5	F	Tape and mud, white/grey	Throughout	37 LF	No
6	NF	Ceiling tile, white	Throughout	1281 SF	No
7	NF	Foundation, grey	Exterior	132 LF	No
8	F	Asphalt shingle, black	Exterior	1080 SF	No
9	F	Tar paper backing, black	Exterior	1080 SF	No
10	F	Window caulk, white	Exterior	12 windows	No
11	NF	Duct gasket, grey	Room 1	2 LF	No
12	F	Fiber board, black/tan	Room 9	876 SF	No

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 estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Garage

33-01-01-31-276-121
2510 Greenbelt St, Lansing, MI 48911
11/27/2017



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-31-276-121
House No. 2510 Greenbelt St, Lansing, MI 48911
Date Inspected: 11/27/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-31-276-121
House No.	2510 Greenbelt St, Lansing, MI 48911
Date Inspected:	11/27/2017



Garage

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-31-276-121
House No. 2510 Greenbelt St, Lansing, MI 48911
Date Inspected: 11/27/2017



Refrigerator



TV Screen



Paint Cans



Smoke Detector

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-31-276-121
House No.	2510 Greenbelt St, Lansing, MI 48911
Date Inspected:	11/27/2017



Thermostat

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-31-276-121
House No.	2510 Greenbelt St, Lansing, MI 48911
Date Inspected:	11/27/2017



9x9 Floor Tile, black

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
2510 Greenbelt St, Lansing, MI

Attention :

Client Project : 33-01-01-31-276-121

ETC Job : 199876

Report Date : 11/30/2017

Login #	Sample ID	Work Requested	Completed
630937	01A	Asbestos Analysis	11/30/2017
630938	01B	Asbestos Analysis	11/30/2017
630939	02A	Asbestos Analysis	11/30/2017
630940	02B	Asbestos Analysis	11/30/2017
630941	03A	Asbestos Analysis	11/30/2017
630942	03B	Asbestos Analysis	11/30/2017
630943	04A	Asbestos Analysis	11/30/2017
630944	04B	Asbestos Analysis	11/30/2017
630945	05A	Asbestos Analysis	11/30/2017
630946	05B	Asbestos Analysis	11/30/2017
630947	06A	Asbestos Analysis	11/30/2017
630948	06B	Asbestos Analysis	11/30/2017
630949	07A	Asbestos Analysis	11/30/2017
630950	07B	Asbestos Analysis	11/30/2017
630951	08A	Asbestos Analysis	11/30/2017
630952	08B	Asbestos Analysis	11/30/2017
630953	09A	Asbestos Analysis	11/30/2017
630954	09B	Asbestos Analysis	11/30/2017
630955	10A	Asbestos Analysis	11/30/2017
630956	10B	Asbestos Analysis	11/30/2017

This report is intended for use solely by the individual or entity to which it is addressed. This report may not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. It may contain information that is privileged, confidential and otherwise exempt by law from disclosure. If the reader of this information is not the intended recipient or an employee of its intended recipient, you are herewith notified that any dissemination, distribution or copying of this information is strictly prohibited. If you have received this information in error, please notify ETL immediately. Thank you.

Login #	Sample ID	Work Requested	Completed
630957	11A	Asbestos Analysis	11/30/2017
630958	11B	Asbestos Analysis	11/30/2017
630959	12A	Asbestos Analysis	11/30/2017
630960	12B	Asbestos Analysis	11/30/2017

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2510 Greenbelt St, Lansing, MI

ETC Job : 199876
Client Project : 33-01-01-31-276-121
Date Collected : 11/27/2017
Date Received : 11/28/2017
Date Analyzed : 11/30/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630937 01A Kitchen Room 2 Layer-1 Analyst: Emily Regan	Linoleum	White/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630937 01A Kitchen Room 2 Layer-2 Analyst: Emily Regan	Paper Back	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
630938 01B Kitchen Room 2 Layer-1 Analyst: Emily Regan	Linoleum	White/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630938 01B Kitchen Room 2 Layer-2 Analyst: Emily Regan	Paper Back	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
630939 02A Bath Room #5 Layer-1 Analyst: Emily Regan	Linoleum	Black/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630939 02A Bath Room #5 Layer-2 Analyst: Emily Regan	Paper Back	White Fibrous Homogenous	80% Cellulose	20% Other	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/M4-82/020 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.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2510 Greenbelt St, Lansing, MI

ETC Job : 199876
Client Project : 33-01-01-31-276-121
Date Collected : 11/27/2017
Date Received : 11/28/2017
Date Analyzed : 11/30/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630940 02B Bath Room #5 Layer-1 Analyst: Emily Regan	Linoleum	Black/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630940 02B Bath Room #5 Layer-2 Analyst: Emily Regan	Paper Back	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
630941 03A Utility Room #3 Analyst: Emily Regan	Floor Tile	Black Non-Fibrous Homogenous	1% Cellulose	96% Other	3% Chrysotile
630942 03B Utility Room #3 Analyst: Emily Regan		Not Analyzed			
630943 04A Living Room #1 Analyst: Emily Regan	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
630944 04B Bed Room #6 Analyst: Emily Regan	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2510 Greenbelt St, Lansing, MI

ETC Job : 199876
Client Project : 33-01-01-31-276-121
Date Collected : 11/27/2017
Date Received : 11/28/2017
Date Analyzed : 11/30/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630945 05A North West Wall Kitchen #2 Layer-1 Analyst: Emily Regan	Tape	White/Grey/Orange Fibrous Homogenous	80% Cellulose	20% Other	None Detected
630945 05A North West Wall Kitchen #2 Layer-2 Analyst: Emily Regan	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630946 05B East Wall Living Room #1 Analyst: Emily Regan **Tape is missing	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630947 06A Bath Room #5 Analyst: Sarah Poirier	Ceiling Tile	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
630948 06B Bed Room #7 Analyst: Sarah Poirier	Ceiling Tile	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
630949 07A West Side of Ext Ex #8 Analyst: Sarah Poirier	Foundation Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630950 07B East Side of Ext Ex #8 Analyst: Sarah Poirier	Foundation Cement	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2510 Greenbelt St, Lansing, MI

ETC Job : 199876

Client Project : 33-01-01-31-276-121

Date Collected : 11/27/2017

Date Received : 11/28/2017

Date Analyzed : 11/30/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630951 08A House Ext 8 South Side Roof Analyst: Sarah Poirier	Asphalt Siding	Black Non-Fibrous Homogenous	15% Fiberglass	85% Other	None Detected
630952 08B Garage #9 South Side Roof Analyst: Sarah Poirier	Asphalt Siding	Black Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
630953 09A House Ext #8 South Side Roof Analyst: Sarah Poirier	Tar Paper Backing	Black Fibrous Homogenous	20% Fiberglass	80% Other	None Detected
630954 09B Garage #9 South Side Roof Analyst: Sarah Poirier	Tar Paper Backing	Black Fibrous Homogenous	1% Cellulose 20% Fiberglass	79% Other	None Detected
630955 10A #8 Ext East Side Vinyl Windows Analyst: Sarah Poirier	Window Caulking	White Non-Fibrous Homogenous		100% Other	None Detected
630956 10B #8 Ext North Side Vinyl Windows Analyst: Sarah Poirier	Window Caulking	White Non-Fibrous Homogenous		100% Other	None Detected
630957 11A Living Room #1 Lower Vent Analyst: Sarah Poirier	Gasket	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 2510 Greenbelt St, Lansing, MI

ETC Job : 199876
 Client Project : 33-01-01-31-276-121
 Date Collected : 11/27/2017
 Date Received : 11/28/2017
 Date Analyzed : 11/30/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630958 11B Living Room #1 Lower Vent Analyst: Sarah Poirier	Gasket	Grey Non-Fibrous Homogenous		100% Other	None Detected
630959 12A South Side Garage #9 Analyst: Sarah Poirier	Fiber Board	Black/Tan Fibrous Homogenous	98% Cellulose	2% Other	None Detected
630960 12B West Side Garage #9 Analyst: Sarah Poirier	Fiber Board	Black/Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Emily Regan



Analyst: Sarah Poirier

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/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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/M4-82/020 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.

ENVIRONMENTAL TESTING LABORATORIES, INC

38900 HURON RIVER DRIVE
 ROMULUS, MICHIGAN 48174
 (734) 955-6600
 FAX: (734) 992-2261
 www.2eti.com

**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199896

Client: ETC	Contact:	Project Location/name: 2510 Green Belt, Lansing MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2eti.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 11/27/17

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (31 days) Other _____

PLM Instructions
 (Check all that apply)

<input type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

*Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 A-B		
	12 A-B		

	Date	Time
Relinquished (Name/Organization): <u>Wode Wilke</u>	11/27/17	am/pm
Received (Name/ETL): <u>[Signature]</u>	11/28/17	11:50 am/pm
Microscopical Analysis (Name/ETL): <u>Emily Koen</u> <u>Sarah Poirier</u>	11/28/17	am/pm
Sample Login (Name/ETL): <u>[Signature]</u>	11/28/17	am/pm
Analysis (Name/ETL): <u>Emily Koen</u> <u>Sarah Poirier</u>	11/28/17	am/pm
A/QC Review (Name/ETL): <u>[Signature]</u>	11/30/17	am/pm
Special Instructions:	Remarks	

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building:				Date:		
	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity
01	Material: Linoleum Description: marble - white and grey	N	A	Kitchen Room 2	only Kitchen #2	159 SF	
			B	Kitchen Room 2			
02	Material: Linoleum Description: Black/Grey	N	A	Bath Room #5	only Bath #5	81 SF	
			B	Bath Room #5			
03	Material: Flaws tile Description: Black	N	A	Utility Room #3	only #3 Utility	36 SF	
			B	Utility Room #3			
04	Material: Dry wall Description: White	N	A	Living Room #1	1,2,3,4,5,6,D	2650 SF	
			B	Bed Room #6			
05	Material: tape / mud Description: white/grey/orange	N	A	North west wall	1,2,3,4,5,6,D	39 LF	
			B	East wall			
06	Material: ceiling tile Description: White	N	A	Bath Room #5	1,2,3,4,5,6,D	1281 SF	
			B	Bed Room #D			
07	Material: foundation cement Description: Grey	N	A	West side of ext	Ext 8 only	132 LF	
			B	East side of ext			
08	Material: Asphalt tile Description: Black	N	A	House ext 8 south side Roof	#8 all Roof	1080 SF	
			B	garage #9 south side Roof			
09	Material: tar Paper Backing Description: Black	N	A	House ext #8 South side Roof	all Roof #8	1080 SF	
			B	garage #9 South side Roof			
10	Material: Window caulk Description: White	N	A	#8 Ext East side Vinyl windows	Every Vinyl window ext 8	170 LF	
			B	#8 ext North side Vinyl windows			

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:		Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			Friable (F) / Non-Friable (NF)							
11		Material: Duct gasket	N		A	Living Room #1 Lower unit 95030	7th's Room #1	24 inches		
		Description: Grey			B	Living Room #1 Lower unit 958				
12		Material: Fibers Board	N		A	South side Garage #9 959	only garage #9	8 DC SF		
		Description: Black/ tan			B	West side Garage #9 940				
		Material: Description			A					
		Material: Description			B					
		Material: Description			A					
		Material: Description			B					
		Material: Description			A					
		Material: Description			B					
		Material: Description			A					
		Material: Description			B					
		Material: Description			A					
		Material: Description			B					
		Material: Description			A					
		Material: Description			B					

Attachment:

Inspection Procedures

Pre-Demolition Environmental 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

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

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**.

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**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.



Prepared by: _____

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-31-479-301
House No:	4722 Pleasant Grove Rd, Lansing, MI 48910
Date Inspected:	12/27/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	810 SF	Garage Square Footage	NA
Basement Square Footage	810 SF	Garage Siding	NA
Siding	Aluminum	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-479-301
House No. 4722 Pleasant Grove Rd, Lansing, MI 48910
Date Inspected: 12/27/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Hot Water Tank	1	Room 11
TV Screens, Electronics	14	Throughout
Paint Cans	1 (5 gallon)	Room 9

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-479-301
 House No. 4722 Pleasant Grove Rd, Lansing, MI 48910
 Date Inspected: 12/27/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Texture, white	Room 2	162 SF	No
2	F	Drywall, white	Room 3, 8	299 SF	No
3	NF	12x12 Peel and stick, tan	Room 2	18 SF	No
4	NF	Linoleum, red	Room 3	5 SF	YES
5	NF	Mastic, brown	Room 3	5 SF	No
6	NF	Linoleum, brown	Room 10	48 SF	YES
7	NF	Mastic, yellow	Room 10	48 SF	No
8	NF	12x12 Peel and stick, tan	Room 8	35 SF	No
9	NF	Linoleum, tan	Room 8	35 SF	YES
10	NF	Mastic, brown	Room 8	35 SF	No*
11	F	Blown-in-insulation, brown	Attic	144 SF	No
12	NF	Ceiling tile, white slight bumpy	Rooms 5, 6	75 SF	No
13	NF	Glue pod, brown	Rooms 5, 6	75 SF	No
14	NF	Ceiling tile, white	Room 7	225 SF	No
15	NF	Ceiling tile, white non bumpy	Room 9	225 SF	No
16	NF	Fiberboard, white	Throughout	1077 SF	No
17	NF	Fiberboard, tan	Throughout	4012 SF	No
18	NF	Glue, brown	Throughout	4012 SF	No
19	NF	Window glaze, white	Exterior	15 windows	YES
20	NF	House wrap, black	Exterior	2280 SF	No
21	NF	Fiberboard, black/tan	Exterior	2280 SF	No

No* - material was unable to be analyzed because it was inseparable from the top layer.

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 estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-479-301
 House No. 4722 Pleasant Grove Rd, Lansing, MI 48910
 Date Inspected: 12/27/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Roof shingle, green	Exterior	900 SF	No
23	NF	Roof shingle, green/brown	Exterior	900 SF	No
24	NF	Concrete, grey	Room 11	810 SF	No

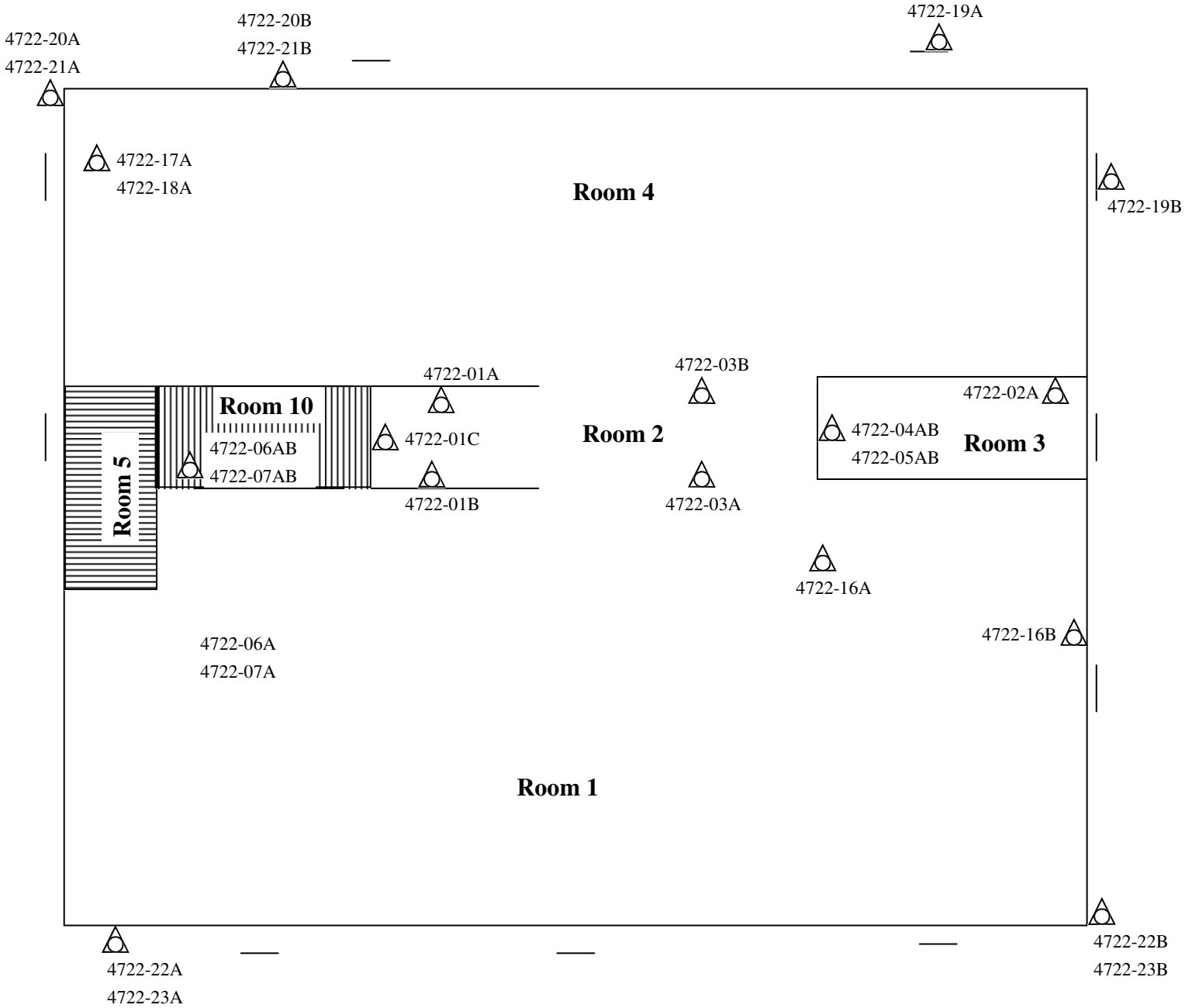
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.


Attachment:

Site Drawing

1st floor

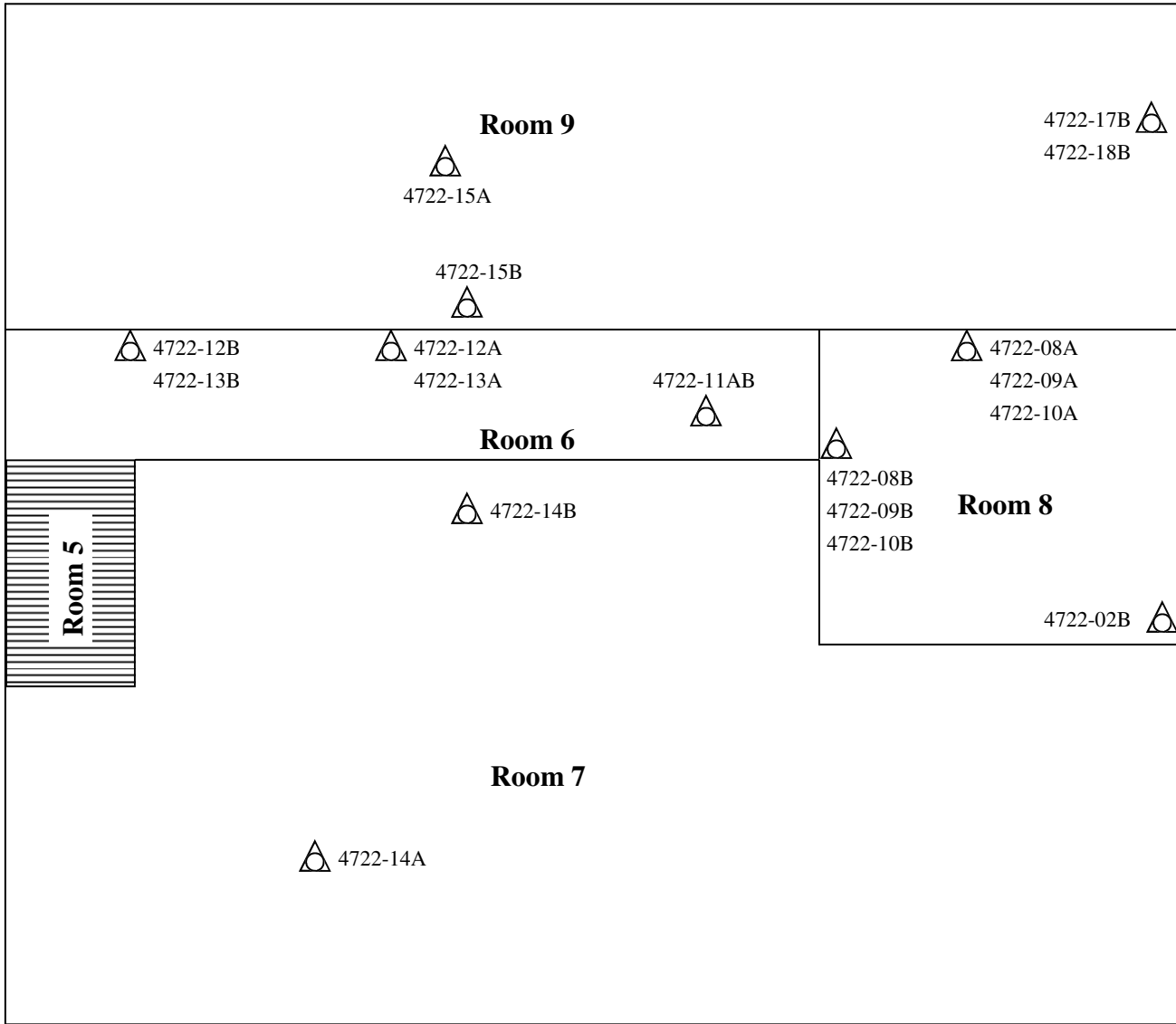
33-01-01-31-479-301
4722 Pleasant Grove Rd, Lansing, MI 48910
12/27/2017




 Sample Location

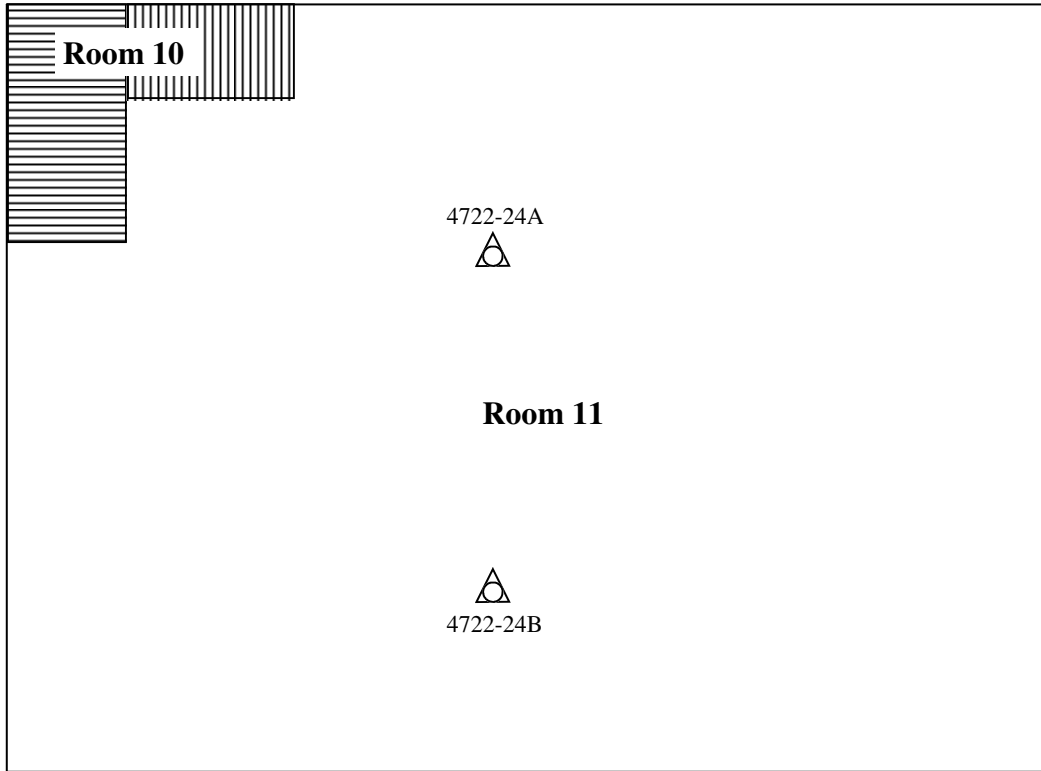
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Ingham County Land Bank
199877



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



 Sample Location

Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel: 33-01-01-31-479-301
House No. 4722 Pleasant Grove Rd, Lansing, MI 48910
Date Inspected: 12/27/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel: 33-01-01-31-479-301
House No. 4722 Pleasant Grove Rd, Lansing, MI 48910
Date Inspected: 12/27/2017



Hot Water Heater



Electronics



Misc. Items (solvents, cleaners)



Paint Can

Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-31-479-301

House No. 4722 Pleasant Grove Rd, Lansing, MI 48910

Date Inspected: 12/27/2017



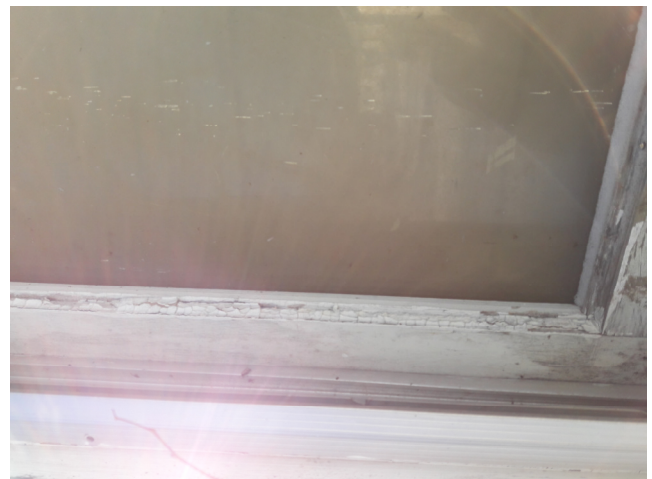
Linoleum, red



Linoleum, brown



Linoleum, tan



Window Glaze

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



38900 HURON RIVER DRIVE, SUITE 200
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 955-6604

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174

Project Location :
4722 Pleasant Grove Rd, Lansing, MI

Attention :

Client Project : 33-01-01-31-479-301

ETC Job : 199877

Report Date : 1/2/2018

Login #	Sample ID	Work Requested	Completed
644305	01A	Asbestos Analysis	01/02/2018
644306	01B	Asbestos Analysis	01/02/2018
644307	01C	Asbestos Analysis	01/02/2018
644308	02A	Asbestos Analysis	01/02/2018
644309	02B	Asbestos Analysis	01/02/2018
644310	03A	Asbestos Analysis	01/02/2018
644311	03B	Asbestos Analysis	01/02/2018
644312	04A	Asbestos Analysis	01/02/2018
644313	04B	Asbestos Analysis	01/02/2018
644314	05A	Asbestos Analysis	01/02/2018
644315	05B	Asbestos Analysis	01/02/2018
644316	06A	Asbestos Analysis	01/02/2018
644317	06B	Asbestos Analysis	01/02/2018
644318	07A	Asbestos Analysis	01/02/2018
644319	07B	Asbestos Analysis	01/02/2018
644320	08A	Asbestos Analysis	01/02/2018
644321	08B	Asbestos Analysis	01/02/2018
644322	09A	Asbestos Analysis	01/02/2018
644323	09B	Asbestos Analysis	01/02/2018
644324	10A	Asbestos Analysis	01/02/2018

Login #	Sample ID	Work Requested	Completed
644325	10B	Asbestos Analysis	01/02/2018
644326	11A	Asbestos Analysis	01/02/2018
644327	11B	Asbestos Analysis	01/02/2018
644328	12A	Asbestos Analysis	01/02/2018
644329	12B	Asbestos Analysis	01/02/2018
644330	13A	Asbestos Analysis	01/02/2018
644331	13B	Asbestos Analysis	01/02/2018
644332	14A	Asbestos Analysis	01/02/2018
644333	14B	Asbestos Analysis	01/02/2018
644334	15A	Asbestos Analysis	01/02/2018
644335	15B	Asbestos Analysis	01/02/2018
644336	16A	Asbestos Analysis	01/02/2018
644337	16B	Asbestos Analysis	01/02/2018
644338	17A	Asbestos Analysis	01/02/2018
644339	17B	Asbestos Analysis	01/02/2018
644340	18A	Asbestos Analysis	01/02/2018
644341	18B	Asbestos Analysis	01/02/2018
644342	19A	Asbestos Analysis	01/02/2018
644343	19B	Asbestos Analysis	01/02/2018
644344	20A	Asbestos Analysis	01/02/2018
644345	20B	Asbestos Analysis	01/02/2018
644346	21A	Asbestos Analysis	01/02/2018
644347	21B	Asbestos Analysis	01/02/2018
644348	22A	Asbestos Analysis	01/02/2018
644349	22B	Asbestos Analysis	01/02/2018
644350	23A	Asbestos Analysis	01/02/2018
644351	23B	Asbestos Analysis	01/02/2018

Login #	Sample ID	Work Requested	Completed
644352	24A	Asbestos Analysis	01/02/2018
644353	24B	Asbestos Analysis	01/02/2018

Reviewed by:



Quality Assurance Coordinator

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644305 01A RM2 W Wall Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
644306 01B RM2 E Wall Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
644307 01C RM2 Ceiling Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
644308 02A RM3 Ceiling Center Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644309 02B RM8 N Wall Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644310 03A RM2 E Floor Analyst: Renee Renauer	12x12 Peel & Stick	Tan Non-Fibrous Homogenous		100% Other	None Detected
644311 03B RM2 Center Floor Analyst: Renee Renauer	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	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 :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644312 04A RM3 S Floor Analyst: Renee Renauer	Linoleum	Red Fibrous Homogenous	40% Cellulose	5% Other	55% Chrysotile
644313 04B RM3 S Floor Analyst: Renee Renauer		Not Analyzed			
644314 05A RM3 S Floor Analyst: Renee Renauer	Mastic	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644315 05B RM3 S Floor Analyst: Renee Renauer	Mastic	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644316 06A RM10 N Floor Analyst: Renee Renauer 7A+7B inseperable from 6A+6B	Linoleum	Brown Fibrous Homogenous	40% Cellulose	5% Other	55% Chrysotile
644317 06B RM10 S Floor Analyst: Renee Renauer		Not Analyzed			
644318 07A RM10 N Floor Analyst: Renee Renauer		Not Analyzed			

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 Romulus, MI 48174

Location :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644319 07B RM10 S Floor Analyst: Renee Renauer		Not Analyzed			
644320 08A RM8 Center Floor Analyst: Renee Renauer	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644321 08B RM8 S Floor Analyst: Renee Renauer	12x12 Peel & Stick	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
644322 09A RM8 Center Floor Analyst: Renee Renauer 10 inseperable from 9	Linoleum	Tan/Brown Non-Fibrous Homogenous	35% Cellulose	55% Other	10% Chrysotile
644323 09B RM8 S Wall Analyst: Renee Renauer		Not Analyzed			
644324 10A RM8 Center Floor Analyst: Renee Renauer		Not Analyzed			
644325 10B RM8 S Floor Analyst: Renee Renauer		Not Analyzed			

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Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644326 11A Attic Center Analyst: Renee Renauer	Blown-in Insulation	Brown Fibrous Homogenous	40% Cellulose 50% Mineral wool	10% Other	None Detected
644327 11B Attic Center Analyst: Renee Renauer	Blown-in Insulation	Brown Fibrous Homogenous	40% Cellulose 50% Mineral wool	10% Other	None Detected
644328 12A RM6 Center Ceiling Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
644329 12B RM6 N Ceiling Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
644330 13A RM6 Center Ceiling Analyst: Renee Renauer	Glue Pod	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
644331 13B RM6 N Ceiling Analyst: Renee Renauer	Glue Pod	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
644332 14A RM7 Center Ceiling Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		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 :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644333 14B RM7 W Ceiling Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
644334 15A RM9 Ceiling Center Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
644335 15B RM9 Ceiling Center Analyst: Renee Renauer	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
644336 16A RM1 W Wall Layer-1 Analyst: Renee Renauer	Fiberboard	White Fibrous Homogenous	100% Cellulose		None Detected
644336 16A RM1 W Wall Layer-2 Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	9.5% Cellulose	90% Other	PC 0.5% Chrysotile
644337 16B RM1 N Wall Layer-1 Analyst: Renee Renauer	Fiberboard	White Fibrous Homogenous	100% Cellulose		None Detected
644337 16B RM1 N Wall Layer-2 Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	19% Cellulose	81% Other	None Detected
644338 17A RM4 S Wall Analyst: Renee Renauer	Fiberboard	Tan Fibrous Homogenous	100% Cellulose		None Detected

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Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
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 Romulus, MI 48174

Location :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644339 17B RM9 N Wall Analyst: Renee Renauer	Fiberboard	Tan Fibrous Homogenous	100% Cellulose		None Detected
644340 18A RM4 S Wall Analyst: Renee Renauer	Glue	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
644341 18B RM9 N Wall Analyst: Renee Renauer	Glue	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
644342 19A Ext Window W Side Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous	0.5% Cellulose	98.75% Other	PC 0.75% Chrysotile
644343 19B Ext Window N Side Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous	0.75% Cellulose	98% Other	PC 1.25% Chrysotile
644344 20A W Wall Ext House Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	100% Cellulose		None Detected
644345 20B S Wall Ext House Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	100% Cellulose		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 :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644346 21A W Wall Ext House Analyst: Renee Renauer	Ext Fiberboard	Black/Tan Fibrous Homogenous	100% Cellulose		None Detected
644347 21B S Wall Ext House Analyst: Renee Renauer	Ext Fiberboard	Black/Tan Fibrous Homogenous	100% Cellulose		None Detected
644348 22A E Ext House Roof Analyst: Renee Renauer	Shingle	Green Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
644349 22B N Ext House Roof Analyst: Renee Renauer	Shingle	Green Non-Fibrous Homogenous	12% Cellulose	88% Other	None Detected
644350 23A E Ext House Roof Analyst: Renee Renauer	Shingle	Green/Brown Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
644351 23B N Ext House Roof Analyst: Renee Renauer	Shingle	Green/Brown Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
644352 24A RM11 Center Floor Analyst: Renee Renauer	Concrete	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	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/M4-82/020 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.

Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
 38900 Huron River Drive
 Romulus, MI 48174

Location :
 4722 Pleasant Grove Rd, Lansing, MI

ETC Job : 199877
Client Project : 33-01-01-31-479-301
Date Collected : 12/27/2017
Date Received : 12/29/2017
Date Analyzed : 01/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
644353 24B RM11 E Floor Analyst: Renee Renauer	Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Renee Renauer

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/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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**Bulk Asbestos
 Chain of Custody**

ETL Project #: 199877

Client: ETC	Contact:	Project Location/name:
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	<u>4722 Pleasant Grove Rd Lansing MI</u>
	Fax: (734) 955-6604	Client Project #:
	E-mail: <u>results@2etl.com</u>	Date Sampled: <u>12/27/17</u>
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		

Turnaround Time (TAT): RUSH Same Day 24 hr 48 hr Standard (3+ days) Other _____

PLM Instructions
 (Check all that apply)

3 days

<input checked="" type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - <i>Clearly mark Homogenous Group</i>
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	<u>01A-C</u>		
	<u>02A-B</u>		
	↓		
	✓		
	<u>24A-B</u>		

		Date	Time
Relinquished (Name/Organization):	<u>[Signature]</u>	<u>12/27/17</u>	<u>5:30</u> am/pm
Received (Name/ETL):	<u>Brittany Wales</u>	<u>12/29/17</u>	<u>11:46</u> (am/pm)
Stereoscopical Analysis (Name/ETL):	<u>[Signature]</u>	<u>12-29-17</u>	am/pm
Sample Login (Name/ETL):	<u>Brittany Wales</u>	<u>12/29/17</u>	<u>11:46</u> (am/pm)
Analysis (Name/ETL):	<u>[Signature]</u>	<u>12-29-17</u>	am/pm
QA/QC Review (Name/ETL):	<u>[Signature]</u>	<u>11/2/18</u>	am/pm

Special Instructions: please point count 2% or less

Remarks:

Asbestos Material Sampling Summary Sheet Surfacing materials

Revision date 5/7/2015

Job #:	Building: 4722 Pleasant Grove Rd			Date: 12/27/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: Texture white	NF	A	Rm 2 west wall 6414	2	162 SF	17
			B	Rm 2 east wall 305			
			C	Rm 2 ceiling 306 307			
	Material:						
	Material:						
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #:	199877		Building: 4722 Pleasant Grove Rd		Date:	12/27/17	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
02	Material: Drywall Description: white	NF	A	Rm 3 ceiling center	Rm 3 ceiling	299 SF	20
03	Material: 12x12 P&S Description: tan wood grain	NF	B	Rm 8 north wall	Rm 8	18 SF	16
04	Material: Linoleum Description: Red	NF	A	Rm 2 east floor	2	5 SF	19
05	Material: Mastic Description: brown	NF	B	Rm 2 center floor	3	5 SF	19
06	Material: Linoleum Description: brown	NF	A	Rm 3 south floor	3	5 SF	19
07	Material: Mastic Description: yellow	NF	B	Rm 3 south floor	3	5 SF	19
08	Material: 12x12 P&S Description: tan	NF	A	Same as 04A	3	5 SF	19
09	Material: Linoleum Description: tan/brown	NF	B	Same as 04B	3	5 SF	19
10	Material: Mastic Description: brown	NF	A	Rm 10 north floor	10	48 SF	55
11	Material: Ceiling Tile Blown In Insulation Description: brown	F	B	Rm 10 south floor	10	48 SF	55
			A	Same as 08A	10	48 SF	55
			B	Same as 08B	10	48 SF	55
			A	Rm 8 center floor	8	35 SF	57
			B	Rm 8 south floor	8	35 SF	57
			A	Same as 08A	8	35 SF	57
			B	Same as 08B	8	35 SF	57
			A	Same as 08A	8	35 SF	57
			B	Same as 08B	8	35 SF	57
			A	Attic center	Attic	144 SF	59
			B	Attic center	Attic	144 SF	59

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material no.		Material Description	Building:	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199877				4722 Pleasant Grove Rd				12/27/17			
12	Material: Ceiling Tile			NF	A	Rm 6 Center ceiling	6414	5,6		75 SF	S1
	Description: white slight bump				B	Rm 5 north ceiling	338				
13	Material: Glue pod			NF	A	Same as 12A	339	5,6		75 SF	S1
	Description: brown				B	Same as 12B	330				
14	Material: Ceiling Tile			NF	A	Rm 7 center ceiling	331	7		225 SF	32
	Description: white super bump				B	Rm 7 west ceiling	332				
15	Material: Ceiling Tile			NF	A	Rm 9 ceiling center	333	9		225 SF	44
	Description: white no bump				B	Rm 9 east ceiling	334				
16	Material: Fiberboard			NF	A	Rm 1 west wall	335	1		1077 SF	14
	Description: white				B	Rm 1 north wall	336				
17	Material: Fiberboard			NF	A	Rm 4 south wall	337	Throughout		40 SF	15
	Description: tan				B	Rm 9 north wall	338				
18	Material: Glue			NF	A	Same as 17A	339	Throughout		40 SF	15
	Description: brown				B	Same as 17B	340				
19	Material: Window Glaze			NF	A	ext window west side	341	ext windows		15.13 units	6
	Description: white				B	ext window north side	342				
20	Material: House wrap			NF	A	west wall ext house	344	ext house		2280 SF	83
	Description: black				B	South wall ext house	345	ext house			
21	Material: Ext Fiberboard			NF	A	Same as 20A	346	ext house		2280 SF	83
	Description: black / tan				B	Same as 20B	347	ext house		2280 SF	83

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199877	Building: 4722 Pleasant Grove Rd							
22	Material: Shingle Description: green	NF	A	East ext house roof 318	ext house	900 SF	52	
			B	North ext house roof 319				
23	Material: Shingle Description: green/brown	NF	A	same as 22A 350				
			B	same as 22B 351		900 SF	52	
24	Material: Concrete Description: grey	NF	A	Rm 11 center floor 352	11	810 SF	8	
			B	Rm 11 east floor 353				
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					
	Material: Description		A					
	Material: Description		B					

Attachment:

Inspection Procedures

Pre-Demolition Environmental 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

Representative bulk samples of suspect asbestos containing building materials were randomly collected within each building area. The materials sampled were broken down into distinct homogenous (similar) materials. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.)
- Application (sprayed-on, troweled-on, assembly into a system etc.)
- Material function (Thermal insulation, floor tile, wallboard system etc.)

Pre-Demolition Environmental Inspection Procedures

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**.

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**.

SIGNATURE

This report was prepared based on the site conditions that existed at the time of the inspection, sample collection, and the laboratory analytical results.



Prepared by: _____

Heather Davis, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-48908