

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33010116106061
House No:	510 N. Sycamore St., Lansing, MI 48933
Date Inspected:	August 1, 2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1400 SF	Garage Square Footage	
Basement Square Footage	150 SF	Garage Siding	
Siding	Vinyl, Wood & Asphalt	Garage Color	
Color	Brown	Garage Shingles	
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33010116106061  
House No. 510 N. Sycamore St., Lansing, MI 48933  
Date Inspected: August 1, 2015

## TABLE 1

### HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
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None observed above household quantities		
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### TIRE(s) REPORT

Material	Quantity & Units	Location
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None observed above household quantities		
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Pre-Demolition Environmental Inspection Summary Report

Parcel:	33010116106061
House No.	510 N. Sycamore St., Lansing, MI 48933
Date Inspected:	August 1, 2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

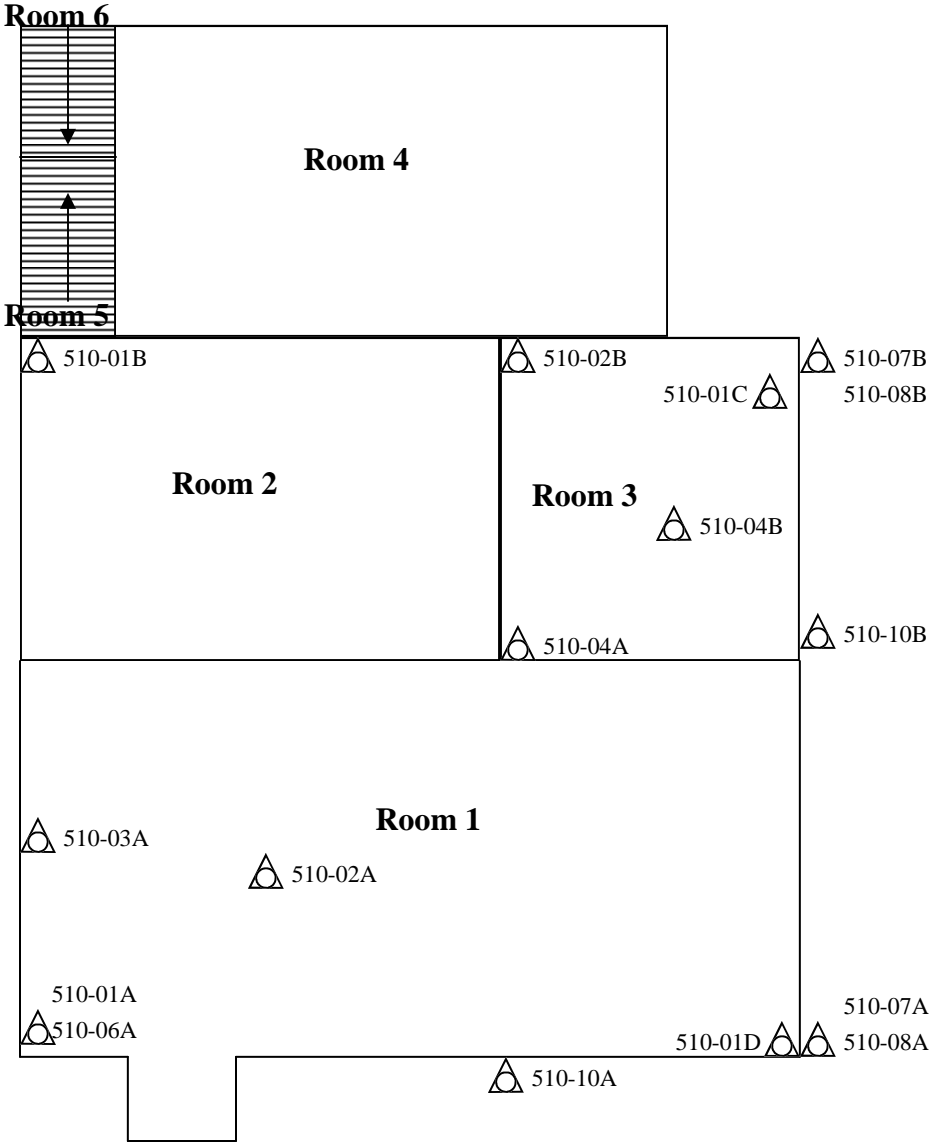
<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	F	Plaster, grey, wood lattice	1st/ 2nd floor	7600 SF	No
2	F	Textured, ceiling	Room 1, 3, 12 ceiling	600 SF	No
3	NF	Window glaze, white	1st & 2nd floor	11 Windows	No
4	NF	Floor tile, stuck on 12x12 tan	Room 3	150 SF	No
5	NF	Linoleum & paper backing, 12x12 grey	Room 9	100 SF	No
6	F	Blown in, grey	1st and 2nd floor, exterior walls, 2nd floor ceiling	5000 SF	No
7	NF	Roof shingle, green	Roof/ 1st	1100 SF	No
8	NF	Roof felt, black	Roof/ 2nd	1100 SF	No
9	NF	Rolled Asphalt, black	2nd floor & balcony	150 SF	No
10	NF	Asphalt siding, brown	Under vinyl siding	4400 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

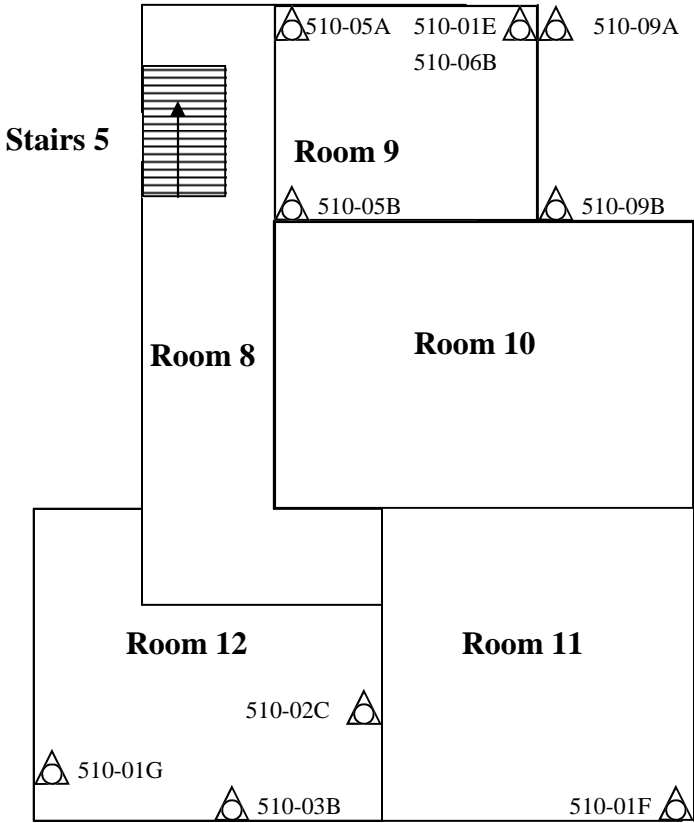
1st floor





- HAZ Hazardous materials
-  Sample Location
-  Tires

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.

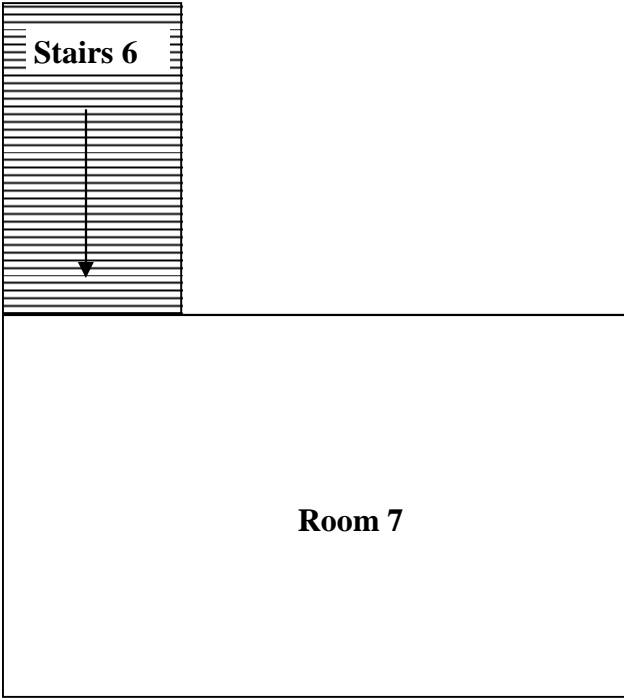
**2nd floor**





- HAZ      Hazardous materials
-       Sample Location
-       Tires

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**



- HAZ      Hazardous materials
-       Sample Location
-       Tires

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: 33010116106061  
House No. 510 N. Sycamore St., Lansing, MI 48933  
Date Inspected: August 1, 2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

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 : Vacant Residence  
510 N. Sycamore St., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-16-106-061

ETC Job : 173525

Report Date : 8/4/2015

Login #	Sample ID	Work Requested	Completed
356451	1A	Asbestos Analysis	08/04/2015
356452	1B	Asbestos Analysis	08/04/2015
356453	1C	Asbestos Analysis	08/04/2015
356454	1D	Asbestos Analysis	08/04/2015
356455	1E	Asbestos Analysis	08/04/2015
356456	1F	Asbestos Analysis	08/04/2015
356457	1G	Asbestos Analysis	08/04/2015
356458	2A	Asbestos Analysis	08/04/2015
356459	2B	Asbestos Analysis	08/04/2015
356460	2C	Asbestos Analysis	08/04/2015
356461	3A	Asbestos Analysis	08/04/2015
356462	3B	Asbestos Analysis	08/04/2015
356463	4A	Asbestos Analysis	08/04/2015
356464	4B	Asbestos Analysis	08/04/2015
356465	5A	Asbestos Analysis	08/04/2015
356466	5B	Asbestos Analysis	08/04/2015
356467	6A	Asbestos Analysis	08/04/2015
356468	6B	Asbestos Analysis	08/04/2015
356469	7A	Asbestos Analysis	08/04/2015
356470	7B	Asbestos Analysis	08/04/2015

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Login #	Sample ID	Work Requested	Completed
356471	8A	Asbestos Analysis	08/04/2015
356472	8B	Asbestos Analysis	08/04/2015
356473	9A	Asbestos Analysis	08/04/2015
356474	9B	Asbestos Analysis	08/04/2015
356475	10A	Asbestos Analysis	08/04/2015
356476	10B	Asbestos Analysis	08/04/2015

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 :** Vacant Residence  
 510 N. Sycamore St., Lansing, MI

**ETC Job :** 173525  
**Client Project :** 33-01-01-16-106-061  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356451 1A Rm 1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356452 1B Rm 2 Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356452 1B Rm 2 Layer-2 Analyst: Alice Turner	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356453 1C Rm 3 Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356453 1C Rm 3 Layer-2 Analyst: Alice Turner	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356454 1D Rm 1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
356455 1E Rm 9 Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356455 1E Rm 9 Layer-2 Analyst: Alice Turner	Skim Coat	White Non-Fibrous Homogenous		100% 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 :** Vacant Residence  
 510 N. Sycamore St., Lansing, MI

**ETC Job :** 173525  
**Client Project :** 33-01-01-16-106-061  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356456 1F Rm 11 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356457 1G Rm 12 Layer-1 Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356457 1G Rm 12 Layer-2 Analyst: Alice Turner	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356458 2A Rm 1 Analyst: Alice Turner	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356459 2B Rm 3 Analyst: Alice Turner	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356460 2C Rm 12 Analyst: Alice Turner	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356461 3A Rm 1 Analyst: Alice Turner	Window Glaze	White 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 :** Vacant Residence  
 510 N. Sycamore St., Lansing, MI

**ETC Job :** 173525  
**Client Project :** 33-01-01-16-106-061  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356462 3B Rm 12 Analyst: Alice Turner	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
356463 4A Rm 3 Layer-1 Analyst: Alice Turner	12x12 Stuck On Floor Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
356463 4A Rm 3 Layer-2 Analyst: Alice Turner	Mastic	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
356464 4B Rm 3 Analyst: Alice Turner	12x12 Stuck On Floor Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
356465 5A Rm 9 Analyst: Alice Turner	12x12 Linoleum and Paper Backing	Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356466 5B Rm 9 Analyst: Alice Turner	12x12 Linoleum and Paper Backing	Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356467 6A Rm 1 Analyst: Alice Turner	Blown-In Insulation	Grey Fibrous Homogenous	100% Cellulose		None Detected

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 510 N. Sycamore St., Lansing, MI

**ETC Job :** 173525  
**Client Project :** 33-01-01-16-106-061  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356468 6B Rm 9 Analyst: Alice Turner	Blown-In Insulation	Grey Fibrous Homogenous	100% Cellulose		None Detected
356469 7A Ext Analyst: Alice Turner	Roof Shingle	Green Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356470 7B Ext Analyst: Alice Turner	Roof Shingle	Green Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
356471 8A Ext Analyst: Alice Turner	Roof Felt	Black Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356472 8B Ext Analyst: Alice Turner	Roof Felt	Black Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356473 9A Ext Analyst: Alice Turner	Rolled Asphalt	Black Fibrous Homogenous	5% Cellulose 10% Fiberglass	85% Other	None Detected
356474 9B Ext Analyst: Alice Turner	Rolled Asphalt	Black Fibrous Homogenous	5% Cellulose 10% Fiberglass	85% Other	None Detected

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**Polarized Light Microscopy Asbestos Analysis Report**

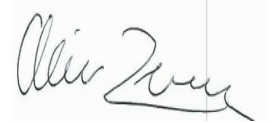
**To :** Environmental Testing And Consulting Inc.  
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 Romulus, MI 48174  
**Location :** Vacant Residence  
 510 N. Sycamore St., Lansing, MI

**ETC Job :** 173525  
**Client Project :** 33-01-01-16-106-061  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356475 10A Ext Analyst: Alice Turner	Asphalt siding	Brown Fibrous Homogenous	15% Cellulose	85% Other	None Detected
356476 10B Ext Analyst: Alice Turner	Asphalt siding	Brown Fibrous Homogenous	15% Cellulose	85% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Alice Turner

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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**Asbestos Material Sampling Summary Sheet**  
**Surfacing materials**

Revision date 2/23/2015

Job #: 173575		Building: 510 N. Sycamore St.			Date: 8-1-2015		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Lotter	Sample Location Ref: only to room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: Plaster	F	A	1 356451	1st/2nd Floor	7600 <sup>sq ft</sup>	142128
	Gray wood lattice		B	2 356452			
			C	3 356453			
			D	1 356454			
			E	9 356455			
			F	11 356456			
			G	12 356457			
2	Material: Textured ceiling	F	A	1 356458	Rm 1, 3, 12 ceiling	6000 <sup>sq ft</sup>	142138
	ceiling		B	3 356459			
			C	12 356460			
	Material:						

=1000 SF = 3 samples

1000 - <5000 = 5 samples

**Asbestos Material Sampling Summary Sheet**  
Miscellaneous materials

Revision date 2/23/2015

Job #: 173525		Building: 510 N. Sycamore			Date: 8-1-15		
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location (Need only be room)	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
3	Material: Window Glaze	NF	A	1	356461	1st/2nd Floor	11
	Description: White		B	12			
4	Material: Floor Tile Stackout	WF	A	3	356463	Rm 3	150 <sup>sq ft</sup>
	Description: 12x17 Tan		B	3			
5	Material: linolium + paperbacking	WF	A	9	356465	Rm 9	100 <sup>sq ft</sup>
	Description: 12x17 Grey		B	9			
6	Material: Blown in	F	A	1	356467	1st/2nd Floor exterior walls	500 <sup>sq ft</sup>
	Description: Gray		B	9			
7	Material: Roof Shingle	NF	A	exterior	356469	Roof	1100 <sup>sq ft</sup>
	Description: Green		B	" "			
8	Material: Roof felt	NF	A	exterior	356471	Roof	1100 <sup>sq ft</sup>
	Description: Black		B	" "			
9	Material: Rolled Asphalt	WF	A	exterior	356473	2nd Floor	150 <sup>sq ft</sup>
	Description: Black		B	" "			
10	Material: Asphalt Siding	NF	A	exterior	356475	Balcony	4400 <sup>sq ft</sup>
	Description: Brown		B	" "			
	Material:						
	Description:						
	Material:						
	Description:						

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: \_\_\_\_\_

Forrest Budd , Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-16-106-101
House No:	618 W. Genesee Ave., Lansing, MI 48933
Date Inspected:	08/05/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

Building Information			
No. Stories	2 + Attic	Garage	No Garage
Square Footage	2,000 SF	Garage Square Footage	
Basement Square Footage	1,000 SF	Garage Siding	
Siding	Vinyl Sided & Wood	Garage Color	
Color	White	Garage Shingles	
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas			





## Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-16-106-101
House No.	618 W. Genesee Ave., Lansing, MI 48933
Date Inspected:	08/05/2015

**TABLE 1**

### HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Refrigerator	1	Room 4
Refrigerator	2	Room 7
Television	1	Room 9
Computer Monitor	1	Room 25
Computer Tower	1	Room 8
Air Conditioner: Unit or Whole House	1	Room 28
Smoke Detector	4	Rooms 10, 12, 15 & 24
Fire Extinguisher	1	Room 8
Vehicle Batteries	2	Room 7
Paint Can (Latex)	4 - 1 Gallons	Room 27
Paint Can (Latex)	6 - 1 Gallons	Room 28
Ballasts	3	Rooms 2, 3 & 8
Fluorescent light tubes, 4 ft or less	2	Room 2
Fluorescent light tubes, 4 ft or less	4	Room 3
Fluorescent light tubes, 4 ft or less	4	Room 27
Mercury Thermostats	2	Rooms 1 & 8

### TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-16-106-101  
 House No. 618 W. Genesee Ave., Lansing, MI 48933  
 Date Inspected: 08/05/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

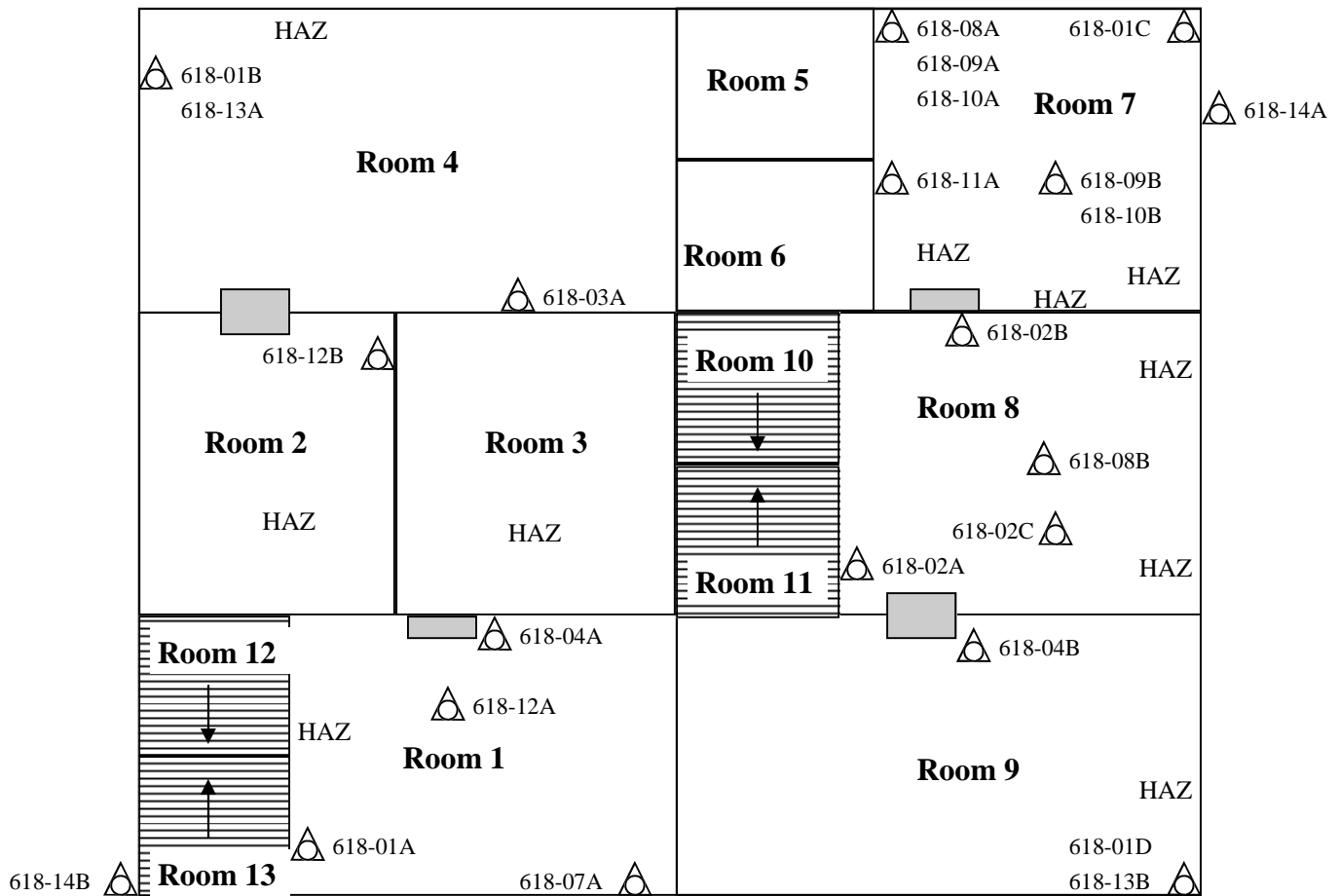
<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	F	Plaster, Grey, Wood Lattice	1st & 2nd Floor	10,800 SF	No
2	F	Textured Ceiling, White	Room 8	260 SF	No
3	F	Textured Ceiling, White	1st & 2nd Floor	2,800 SF	No
<b>4</b>	<b>F</b>	<b>Duct Insulation, Grey</b>	<b>1st &amp; 2nd Floor &amp; Basement</b>	<b>300 SF</b>	<b>Yes</b>
<b>5</b>	<b>F</b>	<b>Duct Tape, Grey</b>	<b>Rooms 27 &amp; 28</b>	<b>120 SF</b>	<b>Yes</b>
6	F	Hvac Sleeve, Black	Room 28	4 SF	No
7	NF	Window Glaze, White	1st & 2nd Floor & Attic	23 Windows	No
8	NF	Floor Tile, Stuck On, 12x12, Tan	Rooms 4, 6-8, 17, 18 & 20, 1st	900 SF	No
9	NF	Linoleum & Paper Back, White	Room 7, 2nd	150 SF	No
<b>10</b>	<b>NF</b>	<b>Floor Tile &amp; Mastic, 9x9, Red</b>	<b>Room 7, 3rd</b>	<b>150 SF</b>	<b>Yes</b>
11	NF	Ceiling Tile, 12x12, White Brown	Room 7 & 19	300 SF	No
12	NF	Ceiling Tile, 2x4, White Grey	Rooms 1-3 & 14	550 SF	No
13	F	Blown-In, White	1st & 2nd Floor Exterior Walls, 2nd Floor & Attic Ceiling	8,000 SF	No
14	NF	Roof Shingles, Green Grey	Roof	1,800 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

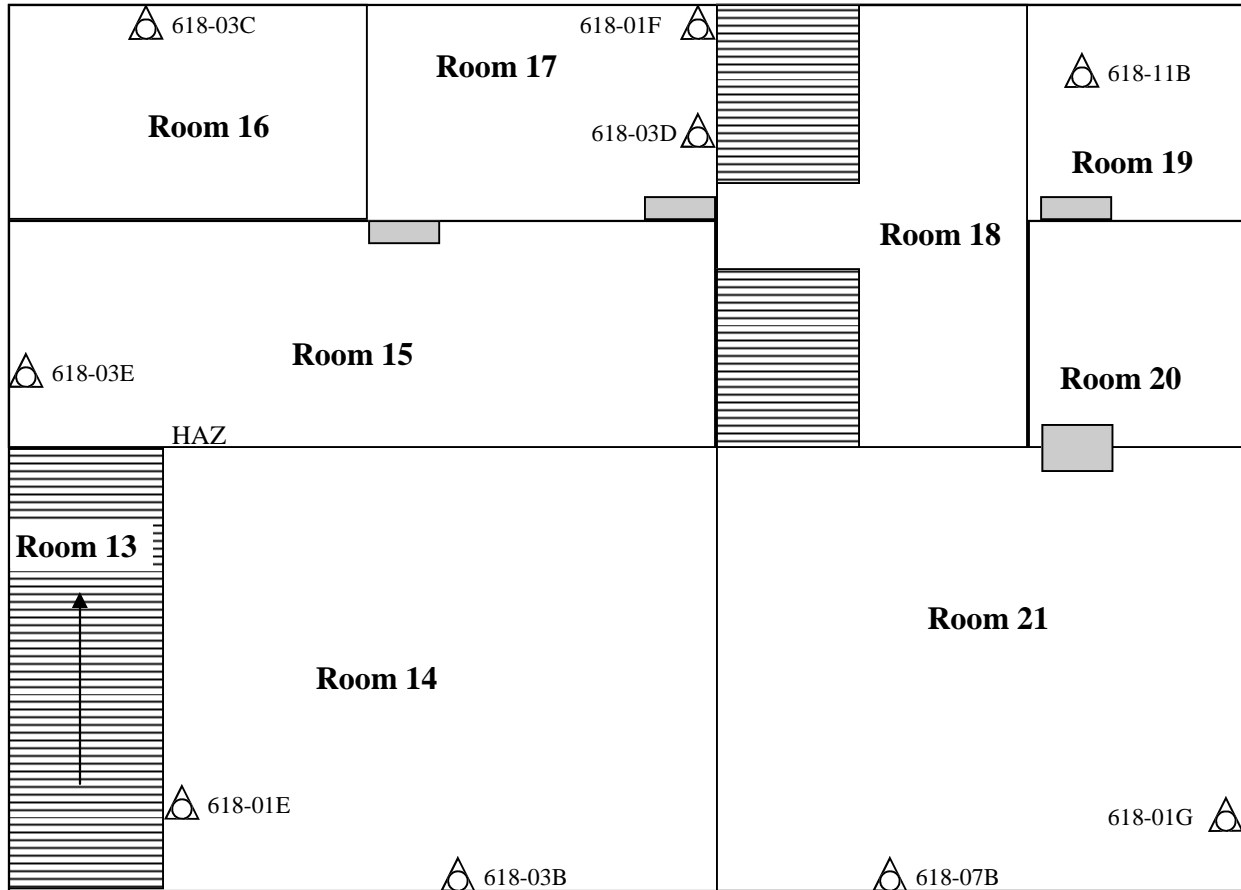
**1st floor**





- HAZ Hazardous materials
-  Sample Location
-  Tires

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.

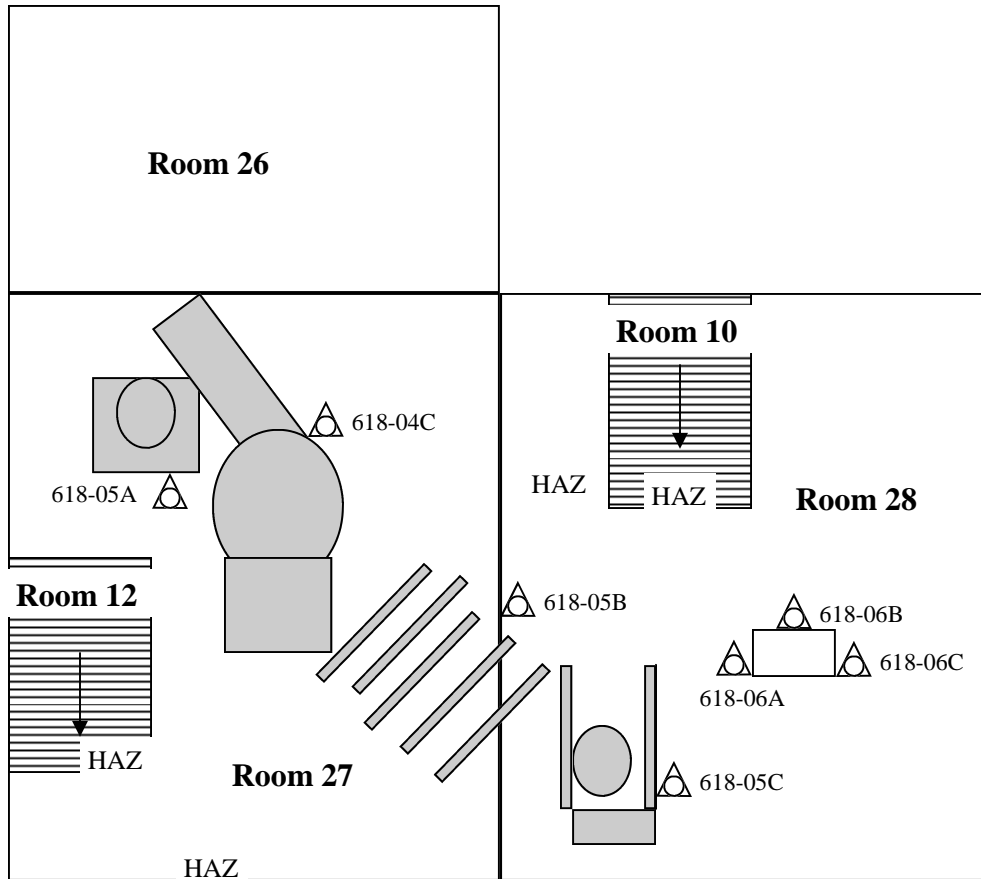
**2nd floor**





- HAZ Hazardous materials
-  Sample Location
-  Tires

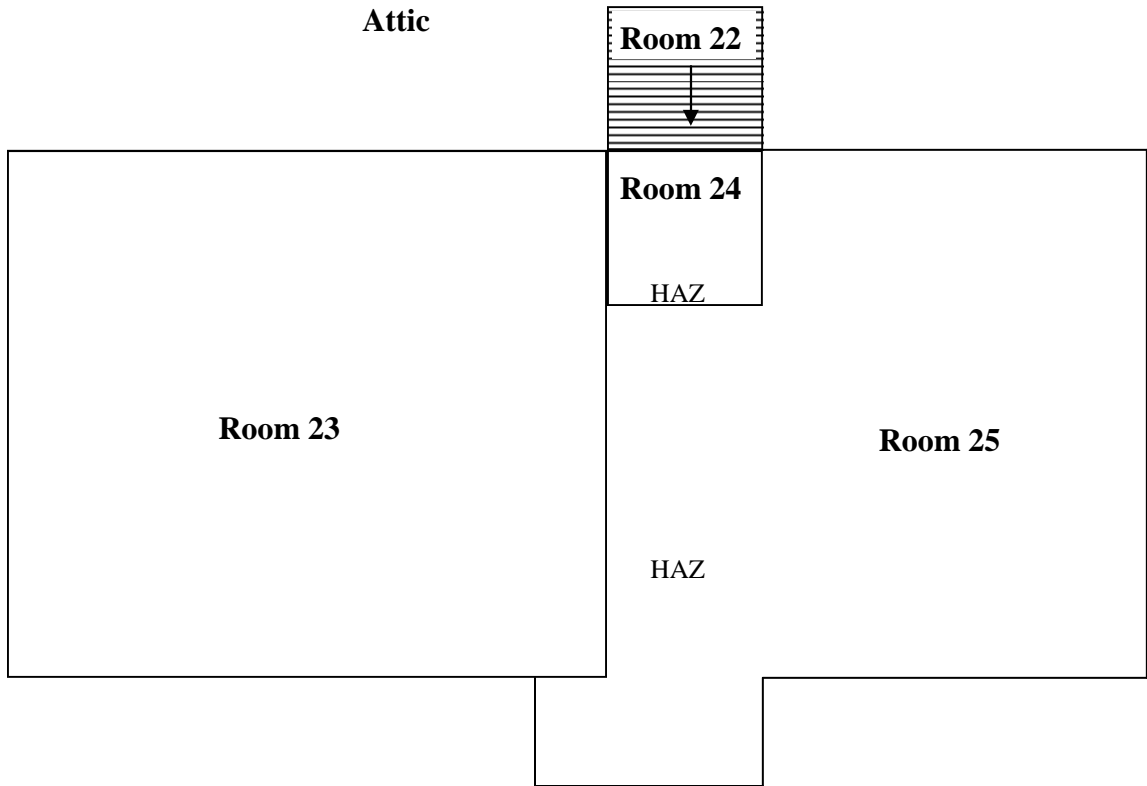
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



**Basement**



- HAZ Hazardous materials
-  Sample Location
-  Tires

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.



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: 33-01-01-16-106-101  
House No. 618 W. Genesee Ave., Lansing, MI 48933  
Date Inspected: 08/05/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-106-101  
House No. 618 W. Genesee Ave., Lansing, MI 48933  
Date Inspected: 08/05/2015



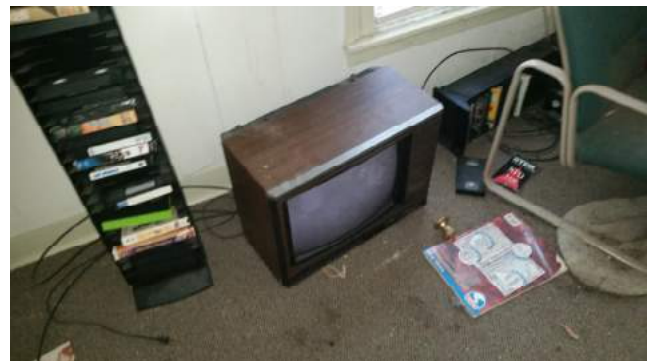
Refrigerator,  
Room 4



Refrigerator,  
Room 7



Refrigerator,  
Room 7



Television,  
Room 9

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-106-101  
House No. 618 W. Genesee Ave., Lansing, MI 48933  
Date Inspected: 08/05/2015



Computer Monitor,  
Room 25



Computer Tower,  
Room 8



Air Conditioner: Unit or Whole House,  
Room 28



Fire Extinguisher,  
Room 8

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-106-101  
House No. 618 W. Genesee Ave., Lansing, MI 48933  
Date Inspected: 08/05/2015



Smoke Detector,  
Room 12



Smoke Detector,  
Room 10



Smoke Detector,  
Room 24



Smoke Detector,  
Room 15

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-106-101  
House No. 618 W. Genesee Ave., Lansing, MI 48933  
Date Inspected: 08/05/2015



Vehicle Batteries,  
Room 7



Paint Can (Latex),  
Room 27



Paint Can (Latex),  
Room 28



Ballasts,  
Room 8

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-16-106-101
House No.	618 W. Genesee Ave., Lansing, MI 48933
Date Inspected:	08/05/2015



Ballasts,  
Room 2



Ballasts,  
Room 3



Fluorescent light tubes, greater than 4 ft,  
Room 2



Fluorescent light tubes, greater than 4 ft,  
Room 3 & Room 27

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-16-106-101
House No.	618 W. Genesee Ave., Lansing, MI 48933
Date Inspected:	08/05/2015



Mercury Thermostat,  
Room 1



Mercury Thermostat,  
Room 8

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-16-106-101  
House No. 618 W. Genesee Ave., Lansing, MI 48933  
Date Inspected: 08/05/2015



Duct Insulation,  
1st & 2nd Floor & Basement



Duct Tape,  
Rooms 27 & 28



Floor Tile & Mastic,  
Room 7, 3rd



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 : Vacant Residence  
618 W. Genesee Ave., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-16-106-101

ETC Job : 173526

Report Date : 8/7/2015

Login #	Sample ID	Work Requested	Completed
357377	1A	Asbestos Analysis	08/07/2015
357378	1B	Asbestos Analysis	08/07/2015
357379	1C	Asbestos Analysis	08/07/2015
357380	1D	Asbestos Analysis	08/07/2015
357381	1E	Asbestos Analysis	08/07/2015
357382	1F	Asbestos Analysis	08/07/2015
357383	1G	Asbestos Analysis	08/07/2015
357384	2A	Asbestos Analysis	08/07/2015
357385	2B	Asbestos Analysis	08/07/2015
357386	2C	Asbestos Analysis	08/07/2015
357387	3A	Asbestos Analysis	08/07/2015
357388	3B	Asbestos Analysis	08/07/2015
357389	3C	Asbestos Analysis	08/07/2015
357390	3D	Asbestos Analysis	08/07/2015
357391	3E	Asbestos Analysis	08/07/2015
357392	4A	Asbestos Analysis	08/07/2015
357393	4B	Asbestos Analysis	08/07/2015
357394	4C	Asbestos Analysis	08/07/2015
357395	5A	Asbestos Analysis	08/07/2015
357396	5B	Asbestos Analysis	08/07/2015

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---

Login #	Sample ID	Work Requested	Completed
357397	5C	Asbestos Analysis	08/07/2015
357398	6A	Asbestos Analysis	08/07/2015
357399	6B	Asbestos Analysis	08/07/2015
357400	6C	Asbestos Analysis	08/07/2015
357401	7A	Asbestos Analysis	08/07/2015
357402	7B	Asbestos Analysis	08/07/2015
357403	8A	Asbestos Analysis	08/07/2015
357404	8B	Asbestos Analysis	08/07/2015
357405	9A	Asbestos Analysis	08/07/2015
357406	9B	Asbestos Analysis	08/07/2015
357407	10A	Asbestos Analysis	08/07/2015
357408	10B	Asbestos Analysis	08/07/2015
357409	11A	Asbestos Analysis	08/07/2015
357410	11B	Asbestos Analysis	08/07/2015
357411	12A	Asbestos Analysis	08/07/2015
357412	12B	Asbestos Analysis	08/07/2015
357413	13A	Asbestos Analysis	08/07/2015
357414	13B	Asbestos Analysis	08/07/2015
357415	14A	Asbestos Analysis	08/07/2015
357416	14B	Asbestos Analysis	08/07/2015

---

Reviewed by:



Quality Assurance Coordinator

**Login #**

**Sample ID**

**Work Requested**

**Completed**

---

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 618 W. Genesee Ave., Lansing, MI

**ETC Job :** 173526  
**Client Project :** 33-01-01-16-106-101  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357377 1A 1 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357378 1B 4 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357379 1C 7 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357380 1D 9 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357381 1E 14 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357382 1F 17 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357383 1G 21 Analyst: Natalie Barnas	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% 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 :** Vacant Residence  
 618 W. Genesee Ave., Lansing, MI

**ETC Job :** 173526  
**Client Project :** 33-01-01-16-106-101  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357384 2A 8 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
357385 2B 8 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357386 2C 8 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357387 3A 4 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
357388 3B 14 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
357389 3C 16 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
357390 3D 17 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected

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 Romulus, MI 48174  
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 618 W. Genesee Ave., Lansing, MI

**ETC Job :** 173526  
**Client Project :** 33-01-01-16-106-101  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357391 3E 15 Analyst: Natalie Barnas	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
357392 4A 1 Analyst: Natalie Barnas	Duct Insulation	Grey Fibrous Homogenous	30% Cellulose	40% Other	30% Chrysotile
357393 4B 9 Analyst: Natalie Barnas		Not Analyzed			
357394 4C 27 Analyst: Natalie Barnas		Not Analyzed			
357395 5A 27 Analyst: Natalie Barnas	Duct Tape	Grey Fibrous Homogenous	50% Cellulose	25% Other	25% Chrysotile
357396 5B 28 Analyst: Natalie Barnas		Not Analyzed			
357397 5C 28 Analyst: Natalie Barnas		Not Analyzed			

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**Polarized Light Microscopy Asbestos Analysis Report**

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 Romulus, MI 48174  
**Location :** Vacant Residence  
 618 W. Genesee Ave., Lansing, MI

**ETC Job :** 173526  
**Client Project :** 33-01-01-16-106-101  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357398 6A 28 Analyst: Natalie Barnas	HVAC Sleeve	Black Fibrous Homogenous	100% Other fibrous		None Detected
357399 6B 28 Analyst: Natalie Barnas	HVAC Sleeve	Black Fibrous Homogenous	95% Other fibrous	5% Other	None Detected
357400 6C 28 Analyst: Natalie Barnas	HVAC Sleeve	Black Fibrous Homogenous	95% Other fibrous	5% Other	None Detected
357401 7A 1 Analyst: Natalie Barnas	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
357402 7B 21 Analyst: Natalie Barnas	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
357403 8A 7 Analyst: Natalie Barnas	12x12 Stuck On Floor Tile	Tan Non-Fibrous Homogenous		100% Other	None Detected
357404 8B 8 Analyst: Natalie Barnas	12x12 Stuck On Floor Tile	Tan 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 :** Vacant Residence  
 618 W. Genesee Ave., Lansing, MI

**ETC Job :** 173526  
**Client Project :** 33-01-01-16-106-101  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357405 9A 8 Analyst: Natalie Barnas	Linoleum and Paper Backing	White Fibrous Homogenous	65% Cellulose	35% Other	None Detected
357406 9B 8 Analyst: Natalie Barnas	Linoleum and Paper Backing	White Fibrous Homogenous	65% Cellulose	35% Other	None Detected
357407 10A 8 Layer-1 Analyst: Natalie Barnas	9x9 Floor Tile	Red Non-Fibrous Homogenous		96% Other	4% Chrysotile
357407 10A 8 Layer-2 Analyst: Natalie Barnas	Mastic	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
357408 10B 8 Layer-1 Analyst: Natalie Barnas		Not Analyzed			
357408 10B 8 Layer-2 Analyst: Natalie Barnas	Mastic	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
357409 11A 7 Analyst: Natalie Barnas	12x12 Ceiling Tile	White/Brown Fibrous Homogenous	100% Cellulose		None Detected
357410 11B 19 Analyst: Natalie Barnas	12x12 Ceiling Tile	White/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 :** Vacant Residence  
 618 W. Genesee Ave., Lansing, MI

**ETC Job :** 173526  
**Client Project :** 33-01-01-16-106-101  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357411 12A 1 Analyst: Natalie Barnas	2x4 Ceiling Tile	White/Grey Fibrous Homogenous	50% Cellulose 40% Mineral wool	10% Other	None Detected
357412 12B 2 Analyst: Natalie Barnas	2x4 Ceiling Tile	White/Grey Fibrous Homogenous	50% Cellulose 40% Mineral wool	10% Other	None Detected
357413 13A 4 Analyst: Natalie Barnas	Blown-In Insulation	White Fibrous Homogenous	100% Mineral wool		None Detected
357414 13B 9 Analyst: Natalie Barnas	Blown-In Insulation	White Fibrous Homogenous	100% Mineral wool		None Detected
357415 14A Exterior Analyst: Natalie Barnas	Roof Shingle	Green/Grey Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
357416 14B Exterior Analyst: Natalie Barnas	Roof Shingle	Green/Grey Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Natalie Barnas



# Certificate of Analysis

Environmental Testing Laboratories, Inc.



38900 Huron River Drive,  
Suite 200, Romulus, Michigan 48174,  
(734) 955-6600, Fax: (734) 955-6604

## Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location : Vacant Residence

618 W. Genesee Ave., Lansing, MI

ETC Job : 173526

Client Project : 33-01-01-16-106-101

Date Collected : 08/05/2015

Date Received : 08/07/2015

Date Analyzed : 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")

Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples

Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples

EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials

EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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

**Bulk Asbestos  
 Chain of Custody**

Client: ETC  
 Address: \_\_\_\_\_  
 Contact: Tammy Wall  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: results@2etc.com  
 Please Provide Results:  Email  Fax  Verbal  Other \_\_\_\_\_  
 Turnaround Time (TAT):  RUSH  Same Day  24 hr  48 hr  Standard (3+ days)  Other \_\_\_\_\_

ETL Project #: 173526  
 Project Location/Name: 618 W. Genesee  
 Client Project #: \_\_\_\_\_  
 Date Sampled: 8/5/15

PLM Instructions  
 (Check all that apply)  
 PLM EPA600/R-93/116, 1993 (Standard method)  
 Point Counting: 400 Points\*  
 PLM Non-Building Material (Dust, Wipe, Tape)  
 Stop at 1st Positive -  
Clearly mark Homogenous Group  
 Soil or Vermiculite Analysis\*  
 \* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
35737	1A-G		
	2A-C		
	3A-E		
	4A-C		
	5A-C		
	6A-C		
	7A-B		
	↓		
35746	14A-B		

Retinquished (Name/Organization):	Date	Time
Source Asbestos	8/7/15	
Received (Name/ETL):	8/17/15	11:14 am/pm
Stereoscopical Analysis (Name/ETL):	8/17/15	am/pm
Sample Login (Name/ETL):	8/17/15	am/pm
Analysis (Name/ETL):	8/17/15	am/pm
QA/QC Review (Name/ETL):	8/17/15	am/pm
Special Instructions:		
Remarks:		

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 2/23/2015

Job #: 173.526		Building: 618 W. Genesee			Date: 8-5-2015			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Lotter	Sample Location Nest only the room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
1	Material: Plaster	F	A	1	357377	1st End Floor	10,800 <sup>2</sup> ft	155139
	Gray wood lattice		B	4	357378			
			C	7	357379			
			D	9	357380			
			E	14	357381			
			F	17	357382			
			G	21	357383			
2	Material: Textured Ceiling	F	A	8	357384	Rm 8	260 <sup>2</sup> ft	155144
	White		B	9	357385			
			C	8	357386			
3	Material: Textured Ceiling		A	4	357387	1st End Floor	2800 <sup>2</sup> ft	155210
	White		B	14	357388			
			C	16	357389			
			D	17	357390			
			E	15	357391			

<1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision date 2/25/2015

Job #: 173526		Building: 618 W. Genesee			Date: 8-5-2015		
Material No.	Material Description	Friable (F) / Non-Friable (NF)	Sample Latex	Sample Location Need only be room	Material Located throughout bldg (Please List All Rooms)	Quantity	Picture #
4	Material: Duct insulation	F	A	1	1st 2nd Floor + Basement	300 <sup>2</sup> ft	154 236
	Description: Grey		B	9			
			C	27			
5	Material: Duct Tape	F	A	27	Rm 27, 28	120 <sup>2</sup> ft	155 258
	Description: Grey		B	28			
			C	28			
6	Material: Heat Sleeve	F	A	28	Rm 28	4 <sup>2</sup> ft	155 304
	Description: Black		B	28			
			C	28			
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision Date 2/23/2015

Job #:		Building:			Date:			
Material no.	Material Description	Frailty (F) / Non-Fractal (NF)	Sample Letter	Sample Location (need only be room)	Material Located throughout Bldg (Please List all Rooms)	Quantity	Picture #	
7	Material: Window Glaze	NF	A	1	357401	1st/2nd Floor	23	155396
	Description: W.W. #c		B	21	357402	+ Attic		
8	Material: Floor Tile Stuck on	WF	A	7	357403	Rm 7, 8, 4,	900 <sup>2</sup> ft	155356
	Description: 12x12 Tan		B	8	357404	6, 17, 18, 20 1st		
9	Material: Linoleum + paper backing	WF	A	8	357405	Rm 7	150 <sup>2</sup> ft	155356
	Description: White		B	8	357406	2nd		
10	Material: Floor tile + mastic	WF	A	8	357407	Rm 7	150 <sup>2</sup> ft	155356
	Description: 9x9 Red		B	8	357408	3rd		
11	Material: Ceiling Tile	WF	A	7	357409	Rm 7, 19	300 <sup>2</sup> ft	155401
	Description: 12x12 White Brown		B	19	357410			
12	Material: Ceiling Tile	WF	A	1	357411	Rm 1, 2, 3,	550 <sup>2</sup> ft	155452
	Description: 2x4 White Grey		B	2	357412	14		
13	Material: Blown in	F	A	4	357413	1st/2nd Floor exterior walls	8000 <sup>2</sup> ft	155139
	Description: White		B	9	357414	2nd Floor Attic Ceiling		
14	Material: Roof Shingle	NF	A	PKC of	357415	Roof	1800 <sup>2</sup> ft	141807
	Description: Green Grey		B	11	357416			
	Material:							
	Description:							
	Material:							
	Description:							

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**.

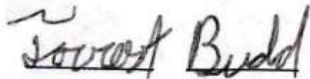
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-16-106-232
House No:	609 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/01/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1,000 SF	Garage Square Footage	
Basement Square Footage	400 SF	Garage Siding	
Siding	Wood	Garage Color	
Color	Pink	Garage Shingles	
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-16-106-232  
House No. 609 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/01/2015

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Refrigerator	2	Room 2
Ballasts	3	Room 2
Fluorescent light tubes, 4 ft or less	5	Room 2
Mercury Thermostat	1	Room 2

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-16-106-232
House No.	609 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/01/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

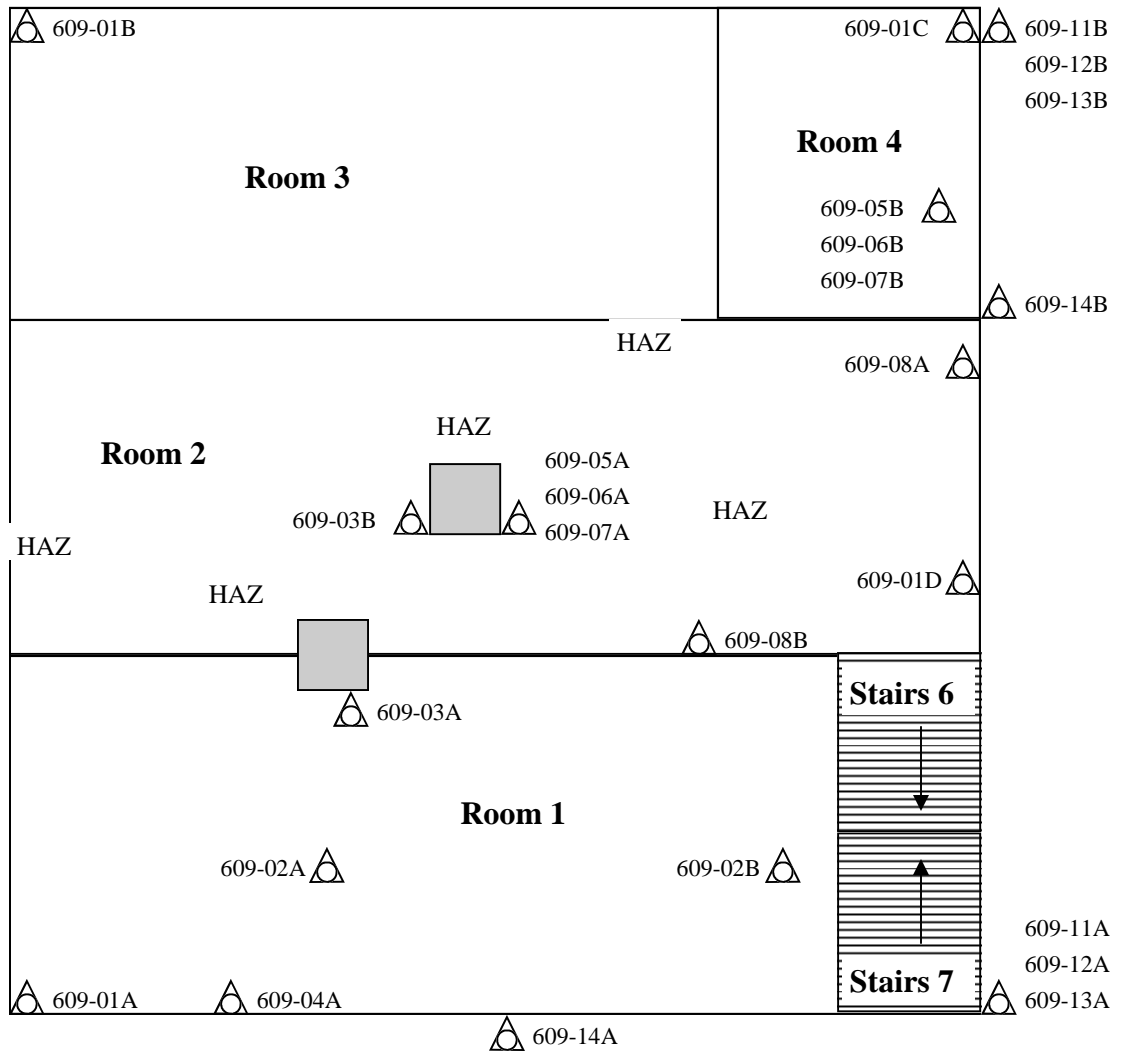
Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster, Grey, Wood Lattice	1st & 2nd Floor	6,000 SF	No
2	F	Textured Ceiling, White	Rooms 1 & 9 Ceilings	600 SF	No
<b>3</b>	<b>F</b>	<b>Duct Insulation, Grey</b>	<b>Rooms 1, 2 &amp; 8</b>	<b>40 SF</b>	<b>Yes</b>
4	NF	Window Glaze, White	1st & 2nd Floor & Basement	20 Windows	No
5	NF	Floor Tile, Stuck On, 12x12, Glue & Grey	Rooms 2, 4 & 12, 1st	400 SF	No
6	NF	Floor Tile, Stuck On, 12x12, Grey	Rooms 2, 4 & 12, 2nd	400 SF	No
<b>7</b>	<b>NF</b>	<b>Floor Tile , 9x9, Brown</b>	<b>Rooms 2, 4 &amp; 12, 3rd</b>	<b>400 SF</b>	<b>Yes</b>
8	NF	Ceiling Tile, 2x4, White	Room 2	100 SF	No
9	NF	Linoleum & Paper Back, White	Room 9	40 SF	No
10	NF	Linoleum & Paper Back, Green	Room 11	80 SF	No
11	NF	Roof Shingles, Brown	Roof, 1st	1,000 SF	No
12	NF	Roof Shingles, Grey	Roof 2nd	1,000 SF	No
13	F	Roof Felt, Black	Roof 3rd	1,000 SF	No
14	F	House Wrap, Brown	Underwood Siding	3,200 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

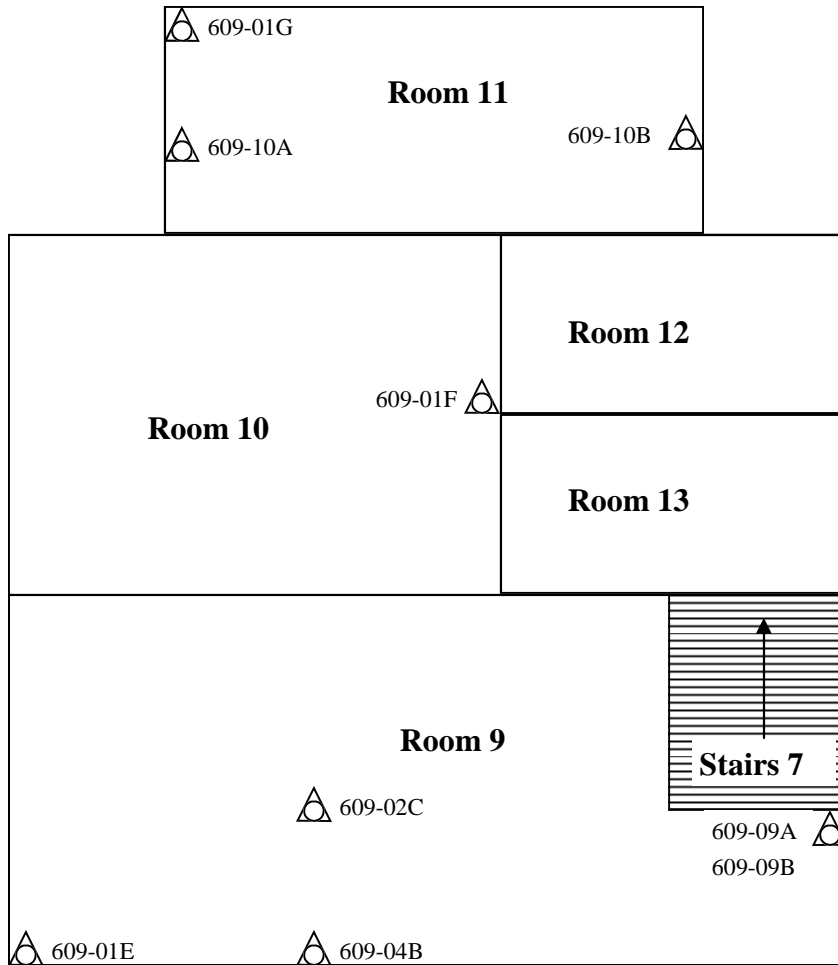
**1st floor**





- HAZ Hazardous materials
-  Sample Location
-  Tires

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.

**2nd floor**

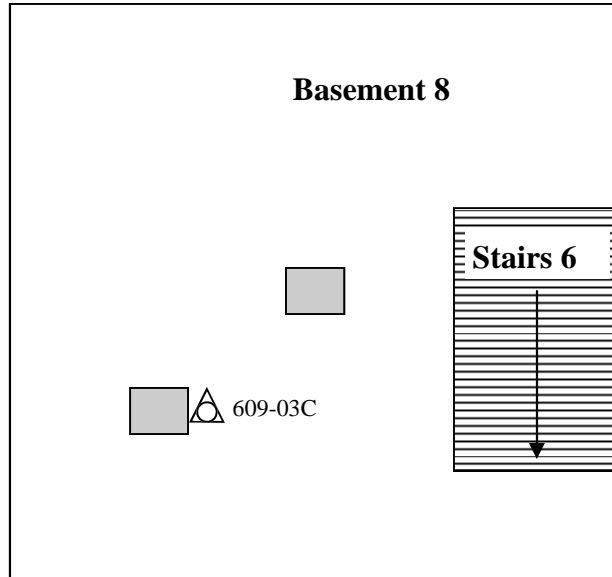


- HAZ      Hazardous materials
-       Sample Location
-       Tires

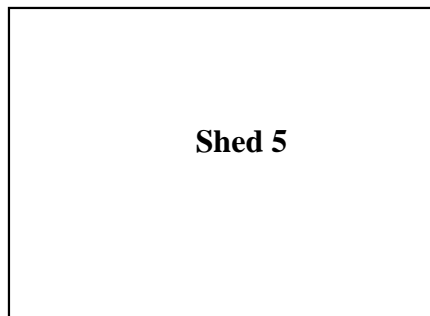
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.





### Basement



### Shed



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: 33-01-01-16-106-232  
House No. 609 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/01/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-16-106-232
House No.	609 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/01/2015



Shed

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-106-232  
House No. 609 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/01/2015



Refrigerator,  
Room 2



Refrigerator,  
Room 2



Ballasts,  
Fluorescent light tubes, 4ft or less,  
Room 2



Ballasts,  
Fluorescent light tubes, 4ft or less,  
Room 2

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-16-106-232
House No.	609 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/01/2015



Mercury Thermostat,  
Room 2

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-16-106-232  
House No. 609 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/01/2015



Duct Insulation, Grey, Rooms 1, 2, 8



Floor Tile and Mastic, 9x9 Brown, Rooms 2, 4, 12, 3rd

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 : Vacant Residence  
609 W. Lapeer St., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-16-106-232

ETC Job : 173527

Report Date : 8/5/2015

Login #	Sample ID	Work Requested	Completed
356503	1A	Asbestos Analysis	08/05/2015
356504	1B	Asbestos Analysis	08/05/2015
356505	1C	Asbestos Analysis	08/05/2015
356506	1D	Asbestos Analysis	08/05/2015
356507	1E	Asbestos Analysis	08/05/2015
356508	1F	Asbestos Analysis	08/05/2015
356509	1G	Asbestos Analysis	08/05/2015
356510	2A	Asbestos Analysis	08/05/2015
356511	2B	Asbestos Analysis	08/05/2015
356512	2C	Asbestos Analysis	08/05/2015
356513	3A	Asbestos Analysis	08/05/2015
356514	3B	Asbestos Analysis	08/05/2015
356515	3C	Asbestos Analysis	08/05/2015
356516	4A	Asbestos Analysis	08/05/2015
356517	4B	Asbestos Analysis	08/05/2015
356518	5A	Asbestos Analysis	08/05/2015
356519	5B	Asbestos Analysis	08/05/2015
356520	6A	Asbestos Analysis	08/05/2015
356521	6B	Asbestos Analysis	08/05/2015
356522	7A	Asbestos Analysis	08/05/2015

---

Login #	Sample ID	Work Requested	Completed
356523	7B	Asbestos Analysis	08/05/2015
356524	8A	Asbestos Analysis	08/05/2015
356525	8B	Asbestos Analysis	08/05/2015
356526	9A	Asbestos Analysis	08/05/2015
356527	9B	Asbestos Analysis	08/05/2015
356528	10A	Asbestos Analysis	08/05/2015
356529	10B	Asbestos Analysis	08/05/2015
356530	11A	Asbestos Analysis	08/05/2015
356531	11B	Asbestos Analysis	08/05/2015
356532	12A	Asbestos Analysis	08/05/2015
356533	12B	Asbestos Analysis	08/05/2015
356534	13A	Asbestos Analysis	08/05/2015
356535	13B	Asbestos Analysis	08/05/2015
356536	14A	Asbestos Analysis	08/05/2015
356537	14B	Asbestos Analysis	08/05/2015

---

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 :** Vacant Residence  
 609 W. Lapeer St., Lansing, MI

**ETC Job :** 173527  
**Client Project :** 33-01-01-16-106-232  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356503 1A Rm 1 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356503 1A Rm 1 Layer-2 Analyst: Sarah Poirier	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356504 1B Rm 3 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356504 1B Rm 3 Layer-2 Analyst: Sarah Poirier	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356505 1C Rm 4 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356505 1C Rm 4 Layer-2 Analyst: Sarah Poirier	Skim Coat	White 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 :** Vacant Residence  
 609 W. Lapeer St., Lansing, MI

**ETC Job :** 173527  
**Client Project :** 33-01-01-16-106-232  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356506 1D Rm 2 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356506 1D Rm 2 Layer-2 Analyst: Sarah Poirier	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356507 1E Rm 9 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356507 1E Rm 9 Layer-2 Analyst: Sarah Poirier	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356508 1F Rm 10 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous		100% Other	None Detected
356508 1F Rm 10 Layer-2 Analyst: Sarah Poirier	Skim Coat	White 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 :** Vacant Residence  
609 W. Lapeer St., Lansing, MI

**ETC Job :** 173527  
**Client Project :** 33-01-01-16-106-232  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356509 1G Rm 11 Layer-1 Analyst: Sarah Poirier	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356509 1G Rm 11 Layer-2 Analyst: Sarah Poirier	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356510 2A Rm 1 Analyst: Sarah Poirier	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356511 2B Rm 1 Analyst: Sarah Poirier	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356512 2C Rm 9 Analyst: Sarah Poirier	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356513 3A Rm 1 Analyst: Sarah Poirier	Duct Insulation	Grey Fibrous Homogenous	40% Cellulose	25% Other	35% Chrysotile
356514 3B Rm 2 Analyst: Sarah Poirier		Not Analyzed			

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 609 W. Lapeer St., Lansing, MI

**ETC Job :** 173527  
**Client Project :** 33-01-01-16-106-232  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356515 3C Rm 8 Analyst: Sarah Poirier		Not Analyzed			
356516 4A Rm 1 Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356517 4B Rm 9 Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356518 5A Rm 2 Analyst: Sarah Poirier	12x12 Stuck-On Floor Tile	Blue/Grey Non-Fibrous Homogenous		100% Other	None Detected
356519 5B Rm 4 Analyst: Sarah Poirier	12x12 Stuck-On Floor Tile	Blue/Grey Non-Fibrous Homogenous		100% Other	None Detected
356520 6A Rm 2 Layer-1 Analyst: Sarah Poirier	12x12 Stuck-On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
356520 6A Rm 2 Layer-2 Analyst: Sarah Poirier	Mastic	Black 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 :** Vacant Residence  
609 W. Lapeer St., Lansing, MI

**ETC Job :** 173527  
**Client Project :** 33-01-01-16-106-232  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356521 6B Rm 4 Layer-1 Analyst: Sarah Poirier	12x12 Stuck-On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
356521 6B Rm 4 Layer-2 Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
356522 7A Rm 2 Layer-1 Analyst: Sarah Poirier	9x9 Floor Tile	Brown Non-Fibrous Homogenous		97% Other	3% Chrysotile
356522 7A Rm 2 Layer-2 Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
356523 7B Rm 4 Layer-1 Analyst: Sarah Poirier		Not Analyzed			
356523 7B Rm 4 Layer-2 Analyst: Sarah Poirier	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
356524 8A Rm 2 Analyst: Sarah Poirier	2x4 Ceiling Tile	White Fibrous Homogenous	60% Cellulose 40% Mineral wool		None Detected

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**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356525 8B Rm 2 Analyst: Sarah Poirier	2x4 Ceiling Tile	White Fibrous Homogenous	60% Cellulose 40% Mineral wool		None Detected
356526 9A Rm 9 Layer-1 Analyst: Sarah Poirier	Linoleum	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
356526 9A Rm 9 Layer-2 Analyst: Sarah Poirier	Mastic	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356527 9B Rm 9 Layer-1 Analyst: Sarah Poirier	Linoleum	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
356527 9B Rm 9 Layer-2 Analyst: Sarah Poirier	Mastic	Brown Non-Fibrous Homogenous		100% Other	None Detected
356528 10A Rm 11 Analyst: Sarah Poirier	Linoleum	Green Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356529 10B Rm 11 Analyst: Sarah Poirier	Linoleum	Green Fibrous Homogenous	35% Cellulose	65% Other	None Detected



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**ETC Job :** 173527  
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**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356530 11A Ext Analyst: Sarah Poirier	Roof Shingle	Brown Fibrous Homogenous	25% Fiberglass	75% Other	None Detected
356531 11B Ext Analyst: Sarah Poirier	Roof Shingle	Brown Fibrous Homogenous	25% Fiberglass	75% Other	None Detected
356532 12A Ext Analyst: Sarah Poirier	Roof Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356533 12B Ext Analyst: Sarah Poirier	Roof Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356534 13A Ext Analyst: Sarah Poirier	Roof Felt	Black Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356535 13B Ext Analyst: Sarah Poirier	Roof Felt	Black Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356536 14A Ext Analyst: Sarah Poirier	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected

Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
609 W. Lapeer St., Lansing, MI

**ETC Job :** 173527  
**Client Project :** 33-01-01-16-106-232  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356537 14B Ext Analyst: Sarah Poirier	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected



Lab Supervisor/Other Signatory



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.



# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 2/23/2015

Job #:	Building:		Date:				
173527	609 W. Lapper		8-1-2015				
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location <small>Need only be room</small>	Material Located throughout bldg <small>(Please List all Rooms)</small>	Quantity	Picture #
1	Material: Plaster	F	A	1 356503	1st and Floor	6000 <sup>2</sup> ft	162960
	Grey / wood lattice		B	3 356504			
			C	4 356505			
			D	2 356506			
			E	9 356507			
			F	10 356508			
			G	11 356509			
2	Material: Textured Ceiling	F	A	1 356510	Rm 1, 9 Ceiling	600 <sup>2</sup> ft	162902
	White		B	1 356511			
			C	9 356512			
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision date 2/25/2015

Job #: 173527		Building: 609 W. Lapceer			Date: 8-1-2015		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
3	Material: Duct Insulation	F	A	1	Rm 1, 2, 8	402A	162909
	Description: Grey		B	2			
			C	8			
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #: 173527		Building: 609 W. Wapacc			Date: 2-1-15		
Material no.	Material Description	Feasible (F)/ Non-Feasible (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
4	Material: Window Glaze	NF	A	1	356516	1st End Floor	
	Description: White		R	9			
5	Material: Floor Tile Stuck on	NF	A	2	356518	Rm 2, 4, 12	400 sq ft
	Description: 12x12 Blue Grey		B	4			
6	Material: Floor Tile Stuck on	NF	A	2	356520	Rm 2, 4, 12	400 sq ft
	Description: 12x12 Grey		B	9			
7	Material: Floor Tile + maske	NF	A	2	356522	Rm 2, 4, 12	400 sq ft
	Description: 9x9 Brown		B	4			
8	Material: Ceiling Tile	NF	A	2	356524	Rm 2	100 sq ft
	Description: 2x4 white/white		B	2			
9	Material: Linolium + paperbacking	NF	A	9	356526	Rm 9	400 sq ft
	Description: White		B	9			
10	Material: Linolium + paperbacking	NF	A	11	356528	Rm 11	80 sq ft
	Description: Green		B	11			
11	Material: Roof Shingle	NF	A	Exterior	356530	Roof	1000 sq ft
	Description: Brown		B	" "			
12	Material: Roof Shingle	NF	A	Exterior	356532	Roof	1000 sq ft
	Description: Grey		B	" "			
13	Material: Roof Felt	F	A	Exterior	356534	Roof	1000 sq ft
	Description: Black		B	" "			

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #: 173527		Building: 609 W. Lapeer			Date: 8-1-15		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Head only or room	Material Located Throughout Job (Please List all Rooms)	Quantity	Picture #
14	Material: Abuse wrap Description: Blower	F	A	EXHIBIT 356536	underwood		
	Material: Description:		B	" " 356537	sidew		2007 163141
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						

2 samples

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**.

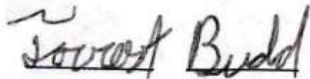
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-16-108-171
House No:	521 N. Walnut St., Lansing, MI 48933
Date Inspected:	08/01/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

Building Information			
No. Stories	2	Garage	Detached
Square Footage	1,600 SF	Garage Square Footage	400 SF
Basement Square Footage	800 SF	Garage Siding	Wood
Siding	Aluminum Sided & Wood	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: 33-01-01-16-108-171  
House No. 521 N. Walnut St., Lansing, MI 48933  
Date Inspected: 08/01/2015

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Refrigerator	1	Room 8
Refrigerator	1	Room 18
Above Ground Storage Tank: Appears Empty	1	Room 13
Ballasts	1	Room 12
Fluorescent light tubes, 4ft or less	2	Room 12

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-16-108-171
House No.	521 N. Walnut St., Lansing, MI 48933
Date Inspected:	08/01/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

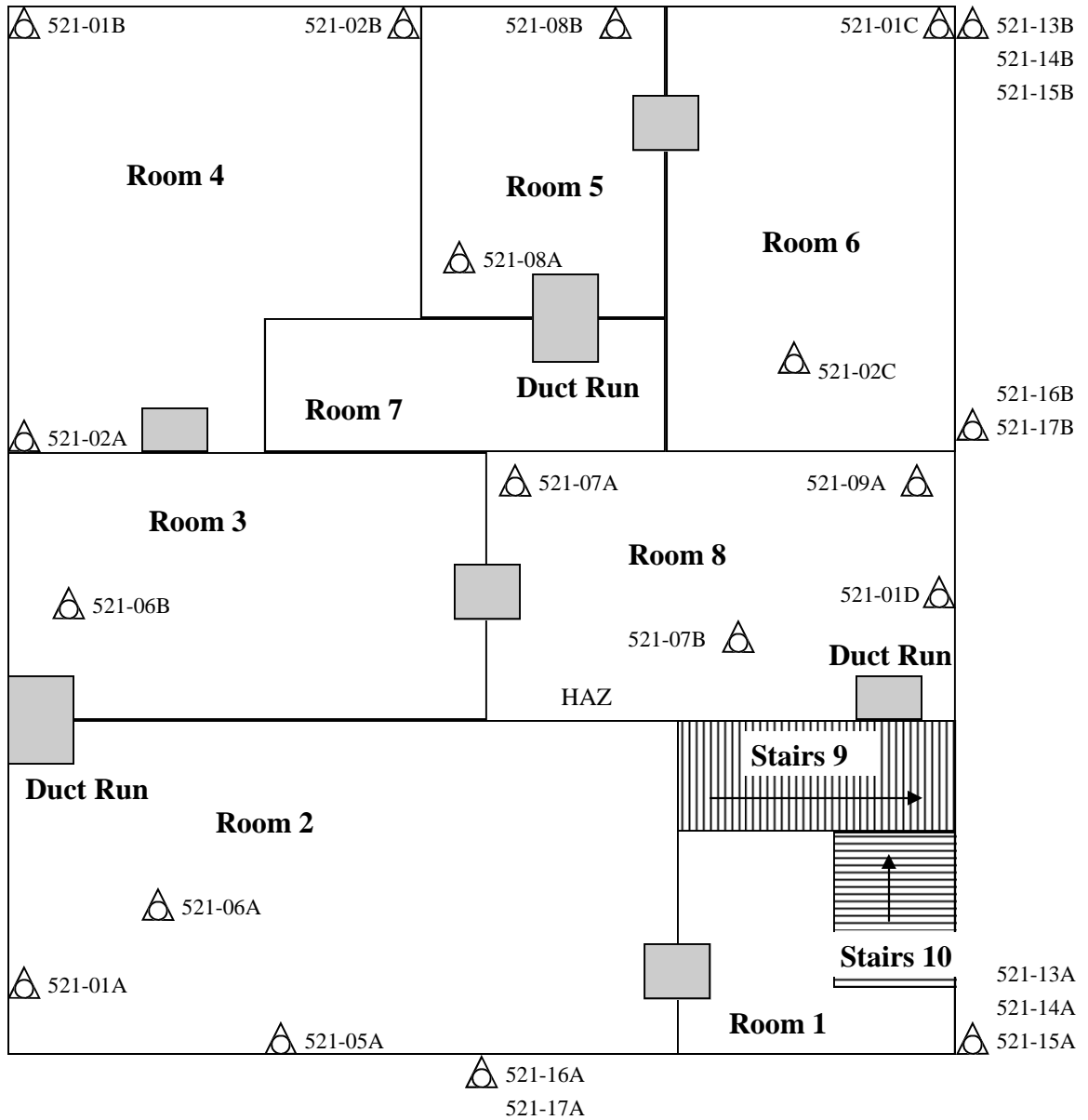
Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster, Grey, Wood Lattice	1st & 2nd Floor	8,600 SF	No
2	F	Textured Ceiling, White	Room 4 Walls, Room 6 Ceilings	600 SF	No
<b>3</b>	<b>F</b>	<b>Duct Insulation, Grey</b>	<b>1st Floor &amp; Basement, 3 Duct Runs for 2nd Floor</b>	<b>640 SF</b>	<b>Yes</b>
4	F	Hvac Sleeve, Black	Room 12	4 SF	No
5	NF	Window Glaze, White	1st & 2nd Floor & Basement	23 Windows	No
6	NF	Ceiling Tile, 12x12, White & Brown	Rooms 2-4	500 SF	No
7	NF	Ceiling Tile, Stuck On, 12x12, Glue & Grey	Room 8	200 SF	No
8	NF	Linoleum & Paper Back, White	Room 5	100 SF	No
9	NF	Ceiling Tile, 2x4, White/Grey	Rooms 8 & 13	250 SF	No
10	NF	Linoleum & Paper Back, Red	Room 15	150 SF	No
11	NF	Floor Tile, Stuck On, 12x12, White & Black	Room 18, 1st	200 SF	No
12	NF	Linoleum & Paper Back, Blue	Room 18, 2nd	200 SF	No
13	NF	Roof Shingle, Grey	Roof of House & Garage, 1st	2,000 SF	No
14	NF	Roof Shingle, Brown & Grey	Roof of House & Garage, 2nd	2,000 SF	No
15	F	Roof Felt, Black	Roof of House & Garage, 3rd	2,000 SF	No
16	F	Cardboard, Brown	Under Aluminum Siding, 2nd	5,000 SF	No
17	F	House Wrap, Brown	Under Wood Siding, 4th	5,000 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

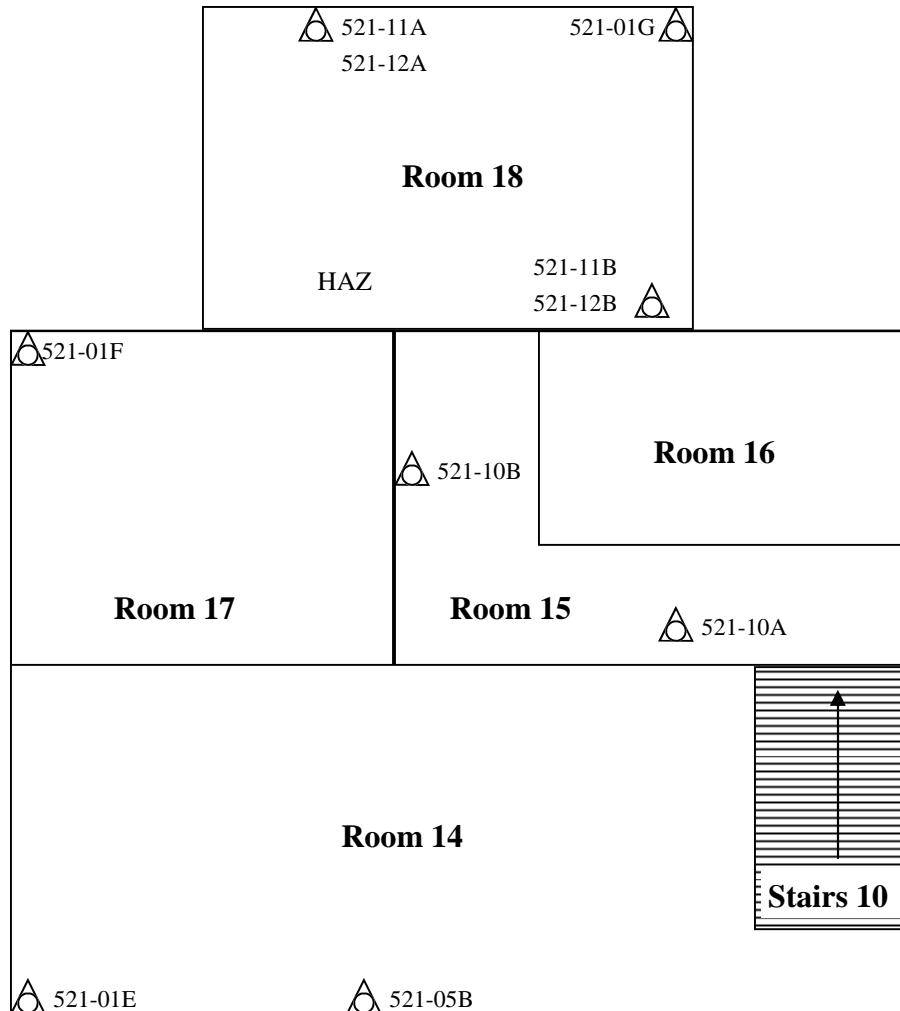
**1st floor**



- HAZ Hazardous materials
-  Sample Location
-  Tires

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.

**2nd floor**



HAZ Hazardous materials

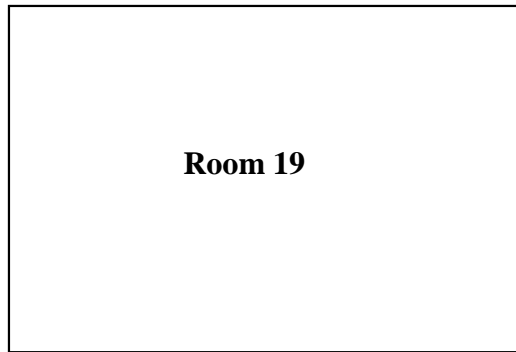
 Sample Location

 Tires

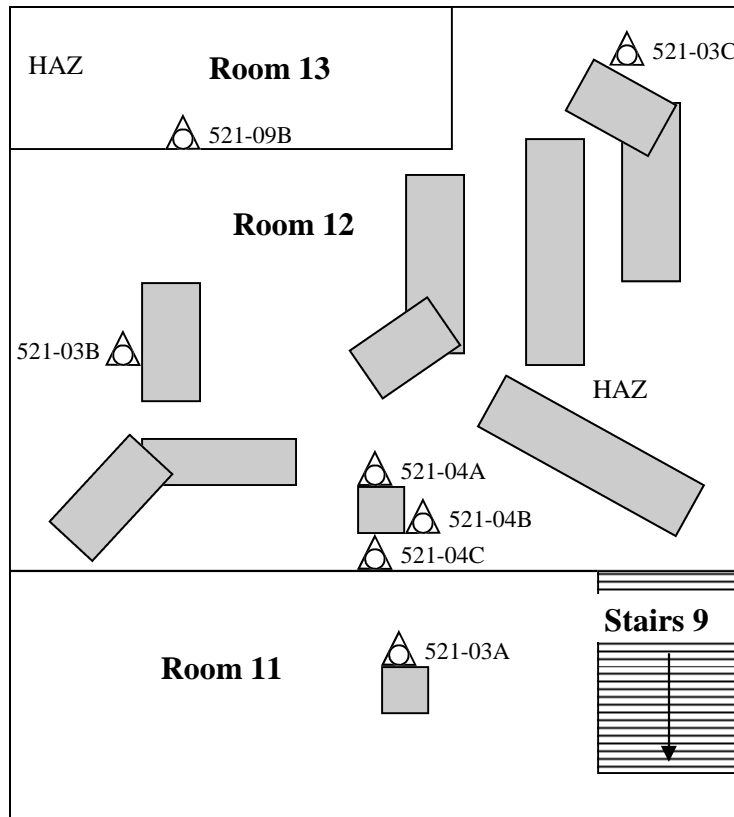
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.





### Garage



### Basement



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: 33-01-01-16-108-171  
House No. 521 N. Walnut St., Lansing, MI 48933  
Date Inspected: 08/01/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-16-108-171
House No.	521 N. Walnut St., Lansing, MI 48933
Date Inspected:	08/01/2015



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-108-171  
House No. 521 N. Walnut St., Lansing, MI 48933  
Date Inspected: 08/01/2015



Refrigerator,  
Room 8



Refrigerator,  
Room 18



Above Ground Storage Tank: Appears  
Empty,  
Room 13



Ballasts,  
Fluorescent light tubes, 4ft or less,  
Room 12

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-16-108-171
House No.	521 N. Walnut St., Lansing, MI 48933
Date Inspected:	08/01/2015



Duct Insulation,  
1st Floor & Basement  
3 Duct Runs to 2nd Floor

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 : Vacant Residence  
521 N. Walnut St., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-16-108-171

ETC Job : 173528

Report Date : 8/6/2015

Login #	Sample ID	Work Requested	Completed
356570	1A	Asbestos Analysis	08/06/2015
356571	1B	Asbestos Analysis	08/06/2015
356572	1C	Asbestos Analysis	08/06/2015
356573	1D	Asbestos Analysis	08/06/2015
356574	1E	Asbestos Analysis	08/06/2015
356575	1F	Asbestos Analysis	08/06/2015
356576	1G	Asbestos Analysis	08/06/2015
356577	2A	Asbestos Analysis	08/06/2015
356578	2B	Asbestos Analysis	08/06/2015
356579	2C	Asbestos Analysis	08/06/2015
356580	3A	Asbestos Analysis	08/06/2015
356581	3B	Asbestos Analysis	08/06/2015
356582	3C	Asbestos Analysis	08/06/2015
356583	4A	Asbestos Analysis	08/06/2015
356584	4B	Asbestos Analysis	08/06/2015
356585	4C	Asbestos Analysis	08/06/2015
356586	5A	Asbestos Analysis	08/06/2015
356587	5B	Asbestos Analysis	08/06/2015
356588	6A	Asbestos Analysis	08/06/2015
356589	6B	Asbestos Analysis	08/06/2015

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Login #	Sample ID	Work Requested	Completed
356590	7A	Asbestos Analysis	08/06/2015
356591	7B	Asbestos Analysis	08/06/2015
356592	8A	Asbestos Analysis	08/06/2015
356593	8B	Asbestos Analysis	08/06/2015
356594	9A	Asbestos Analysis	08/06/2015
356595	9B	Asbestos Analysis	08/06/2015
356596	10A	Asbestos Analysis	08/06/2015
356597	10B	Asbestos Analysis	08/06/2015
356598	11A	Asbestos Analysis	08/06/2015
356599	11B	Asbestos Analysis	08/06/2015
356600	12A	Asbestos Analysis	08/06/2015
356601	12B	Asbestos Analysis	08/06/2015
356602	13A	Asbestos Analysis	08/06/2015
356603	13B	Asbestos Analysis	08/06/2015
356604	14A	Asbestos Analysis	08/06/2015
356605	14B	Asbestos Analysis	08/06/2015
356606	15A	Asbestos Analysis	08/06/2015
356607	15B	Asbestos Analysis	08/06/2015
356608	16A	Asbestos Analysis	08/06/2015
356609	16B	Asbestos Analysis	08/06/2015
356610	17A	Asbestos Analysis	08/06/2015
356611	17B	Asbestos Analysis	08/06/2015

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Reviewed by:



Quality Assurance Coordinator

**Login #**

**Sample ID**

**Work Requested**

**Completed**

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## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 521 N. Walnut St., Lansing, MI

**ETC Job :** 173528  
**Client Project :** 33-01-01-16-108-171  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356570 1A Rm 2 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356570 1A Rm 2 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356571 1B Rm 4 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356571 1B Rm 4 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356572 1C Rm 6 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356572 1C Rm 6 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White 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 :** Vacant Residence  
 521 N. Walnut St., Lansing, MI

**ETC Job :** 173528  
**Client Project :** 33-01-01-16-108-171  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356573 1D Rm 8 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356573 1D Rm 8 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356574 1E Rm 14 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356574 1E Rm 14 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
356575 1F Rm 17 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356575 1F Rm 17 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected

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### Polarized Light Microscopy Asbestos Analysis Report

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**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356576 1G Rm 18 Layer-1 Analyst: Kelsey Siembor	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356576 1G Rm 18 Layer-2 Analyst: Kelsey Siembor	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356577 2A Rm 4 Analyst: Kelsey Siembor	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356578 2B Rm 4 Analyst: Kelsey Siembor	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356579 2C Rm 6 Analyst: Kelsey Siembor	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356580 3A Rm 11 Analyst: Kelsey Siembor	Duct Insulation	Grey Fibrous Homogenous	40% Cellulose	40% Other	20% Chrysotile
356581 3B Rm 12 Analyst: Kelsey Siembor		Not Analyzed			

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**ETC Job :** 173528  
**Client Project :** 33-01-01-16-108-171  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356582 3C Rm 12 Analyst: Kelsey Siembor		Not Analyzed			
356583 4A Rm 12 Analyst: Kelsey Siembor	HVAC Sleeve	Black Non-Fibrous Homogenous		100% Other	None Detected
356584 4B Rm 12 Analyst: Kelsey Siembor	HVAC Sleeve	Black Non-Fibrous Homogenous		100% Other	None Detected
356585 4C Rm 12 Analyst: Kelsey Siembor	HVAC Sleeve	Black Non-Fibrous Homogenous		100% Other	None Detected
356586 5A Rm 2 Analyst: Kelsey Siembor	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356587 5B Rm 4 Analyst: Kelsey Siembor	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356588 6A Rm 2 Analyst: Kelsey Siembor	12x12 Ceiling Tile	White/Brown Fibrous Homogenous	100% Cellulose		None Detected

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**Date Collected :** 08/01/2015  
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**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356589 6B Rm 3 Analyst: Kelsey Siembor	12x12 Ceiling Tile	White/Brown Fibrous Homogenous	100% Cellulose		None Detected
356590 7A Rm 8 Analyst: Kelsey Siembor	12x12 Stuck-On Floor Tile	Blue/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356591 7B Rm 6 Analyst: Kelsey Siembor	12x12 Stuck-On Floor Tile	Blue/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356592 8A Rm 5 Analyst: Kelsey Siembor	Linoleum	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
356593 8B Rm 5 Analyst: Kelsey Siembor	Linoleum	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
356594 9A Rm 8 Analyst: Kelsey Siembor	2x4 Ceiling Tile	White/Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356595 9B Rm 13 Analyst: Kelsey Siembor	2x4 Ceiling Tile	White/Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356596 10A Rm 15 Layer-1 Analyst: Kelsey Siembor	Linoleum	Red Non-Fibrous Homogenous		100% Other	None Detected
356596 10A Rm 15 Layer-2 Analyst: Kelsey Siembor	Paper Backing	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356597 10B Rm 15 Layer-1 Analyst: Kelsey Siembor	Linoleum	Red Non-Fibrous Homogenous		100% Other	None Detected
356597 10B Rm 15 Layer-2 Analyst: Kelsey Siembor	Paper Backing	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356598 11A Rm 18 Analyst: Kelsey Siembor	12x12 Stuck-On Floor Tile	White/Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356599 11B Rm 18 Analyst: Kelsey Siembor	12x12 Stuck-On Floor Tile	White/Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



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 521 N. Walnut St., Lansing, MI

**ETC Job :** 173528  
**Client Project :** 33-01-01-16-108-171  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356600 12A Rm 18 Layer-1 Analyst: Kelsey Siembor	Linoleum	Blue Non-Fibrous Homogenous		100% Other	None Detected
356600 12A Rm 18 Layer-2 Analyst: Kelsey Siembor	Paper Backing	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
356601 12B Rm 18 Layer-1 Analyst: Kelsey Siembor	Linoleum	Blue Non-Fibrous Homogenous		100% Other	None Detected
356601 12B Rm 18 Layer-2 Analyst: Kelsey Siembor	Paper Backing	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
356602 13A Ext Analyst: Kelsey Siembor	Roof Shingle	Grey Non-Fibrous Homogenous	15% Fiberglass	85% Other	None Detected
356603 13B Ext Analyst: Kelsey Siembor	Roof Shingle	Grey Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
356604 14A Ext Analyst: Kelsey Siembor	Roof Shingle	Brown/Grey Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected

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**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356605 14B Ext Analyst: Kelsey Siembor	Roof Shingle	Brown/Grey Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected
356606 15A Ext Analyst: Kelsey Siembor	Roof Felt	Black Non-Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356607 15B Ext Analyst: Kelsey Siembor	Roof Felt	Black Non-Fibrous Homogenous	80% Cellulose	20% Other	None Detected
356608 16A Ext Analyst: Kelsey Siembor	Cardboard	Brown Fibrous Homogenous	100% Cellulose		None Detected
356609 16B Ext Analyst: Kelsey Siembor	Cardboard	Brown Fibrous Homogenous	100% Cellulose		None Detected
356610 17A Ext Analyst: Kelsey Siembor	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected
356611 17B Ext Analyst: Kelsey Siembor	House Wrap	Brown Fibrous Homogenous	100% Cellulose		None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174  
**Location :** Vacant Residence  
521 N. Walnut St., Lansing, MI

**ETC Job :** 173528  
**Client Project :** 33-01-01-16-108-171  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------



Lab Supervisor/Other Signatory



Analyst: Kelsey Siembor

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

Bulk Asbestos  
 Chain of Custody

ETL Project #: 173528

Client: ETC	Contact: Tammy Wall	Project Location/Name: 521 N. Walnut St
Address:	Phone:	Client Project #:
	Fax:	Date Sampled: 8/1/15
	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): <input type="checkbox"/> RUSH <input type="checkbox"/> Same Day <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input checked="" type="checkbox"/> Standard (3+ days) <input type="checkbox"/> 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 Homogeneous 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
356570	1A-G		
	2A-C		
356611	3A-C		
	4A-C		
	5A-B		
	17A-B		

Relinquished (Name/Organization): <u>Tammy Wall</u>	Date: <u>8/3/15</u>	Time: _____
Received (Name/ETL): _____	Date: <u>8/4/15</u>	Time: am/pm
Stereoscopical Analysis (Name/ETL): _____		Time: am/pm
Sample Log In (Name/ETL): _____		Time: am/pm
Analysis (Name/ETL): _____	Date: <u>8/15/15</u>	Time: am/pm
QA/QC Review (Name/ETL): _____		Time: am/pm
Special Instructions:	Remarks:	

**Asbestos Material Sampling Summary Sheet**  
**Surfacing materials**

Revision date 2/23/2015

Job #: 173528		Building: 521 N. Walnut			Date: 8-1-2015		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only list room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: Plaster	F	A	2	1st 2nd Floor	8600 SF	191412
	Grey, wood lattice		B	4			
			C	6			
			D	8			
			E	14			
			F	17			
			G	18			
2	Material: Textured Ceiling	F	A	4	Rm 4 walls Rm 6 Ceiling	6000 SF	191472
	White		B	4			
			C	6			
	Material:						

:1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision date 2/23/2015

Job #: 173528		Building: 521 N. Walnut			Date: 8-1-2015		
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
3	Material: Duct insulation	F	A	11	356580 356581 356582	1st Floor + Basement 3 Duct Runs to 2nd Floor	640 <sup>sq</sup> ft
	Description: Grey		B	12			
			C	12			
4	Material: Hvac Sleeve	F	A	12	356583 356584 356585	Rm 12	4 <sup>sq</sup> ft
	Description: Black		B	12			
			C	12			
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

**Asbestos Material Sampling Summary Sheet**  
Miscellaneous materials

Revision date 2/23/2015

Job #:		Building:			Date:			
Material no.	Material Description	Fibrous (F)/ Non-Fibrous (NF)	Sample Letter	Sample Location Next only be room		Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
5	Material: Window Glass	WF	A	2	356586	1st End Floor + Basement	23	191544
	Description: White		B	4	356587			
6	Material: Ceiling Tile	NF	A	2	356588	Rm 2,3,4	500 <sup>sq ft</sup>	191558
	Description: 12x12 White Brown		B	3	356589			
7	Material: Floor Tile Strickon	NF	A	8	356590	Rm 8	200 <sup>sq ft</sup>	191610
	Description: 12x12 Blue Gray		B	6	356591			
8	Material: linolium + paper backing	WF	A	5	356592	Rm 5	100 <sup>sq ft</sup>	191620
	Description: White		B	5	356593			
9	Material: Ceiling Tile	WF	A	8	356594	Rm 8,13	250 <sup>sq ft</sup>	191632
	Description: 2x4 White / Gray		B	13	356595			
10	Material: linolium + paper backing	WF	A	15	356596	Rm 15	150 <sup>sq ft</sup>	191701
	Description: Red		B	15	356597			
11	Material: Floor Tile Strickon	WF	A	18	356598	Rm 18 1st	200 <sup>sq ft</sup>	191718
	Description: 12x12 White Black		B	18	356599			
12	Material: linolium + paper backing	NF	A	18	356600	Rm 18 2nd	200 <sup>sq ft</sup>	191718
	Description: Blue		B	18	356601			
13	Material: Roof Shingle	NF	A	exterior	356602	Roof of house + Garage 1st	200 <sup>sq ft</sup>	181958
	Description: Grey		B	" "	356603			
14	Material: Roof Shingle	NF	A	exterior	356604	Roof of house + Garage 2nd	200 <sup>sq ft</sup>	181958
	Description: Brown Grey		B	" "	356605			

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #: 173528		Building: 521 N. Walnut			Date: 8-1-15		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Roof only be roof	Material located throughout bldg (Please list all rooms)	Quantity	Picture #
15	Material: Roof felt	F	A	Exterior 356606	Roof above Garage 3rd	2000ft <sup>2</sup>	181958
	Description: Black		B				
16	Material: Cardboard	F	A	Exterior 356608	under Alum Siding 2nd	5000ft <sup>2</sup>	191926
	Description: Brown		B				
17	Material: House wrap	F	A	Exterior 356610	under wood Siding 4th	5000ft <sup>2</sup>	191926
	Description: Brown		B				
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						



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**.

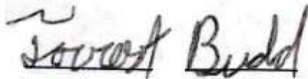
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-16-108-241
House No:	417 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/04/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

## Building Information

No. Stories	2 + Attic	Garage	Detached
Square Footage	1,200 SF	Garage Square Footage	300 SF
Basement Square Footage	600 SF	Garage Siding	Wood
Siding	Vinyl Sided & Wood	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: 33-01-01-16-108-241  
House No. 417 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/04/2015

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Refrigerator	1	Room 5
Freezer	1	Room 5
Fire Extinguisher	1	Room 5
Fire Extinguisher	1	Room 10
Paint Can (Latex)	2	Room 6
Paint Can (Latex)	4	Room 10
Mercury Thermostat	1	Room 2

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-16-108-241  
 House No. 417 W. Lapeer St., Lansing, MI 48933  
 Date Inspected: 08/04/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

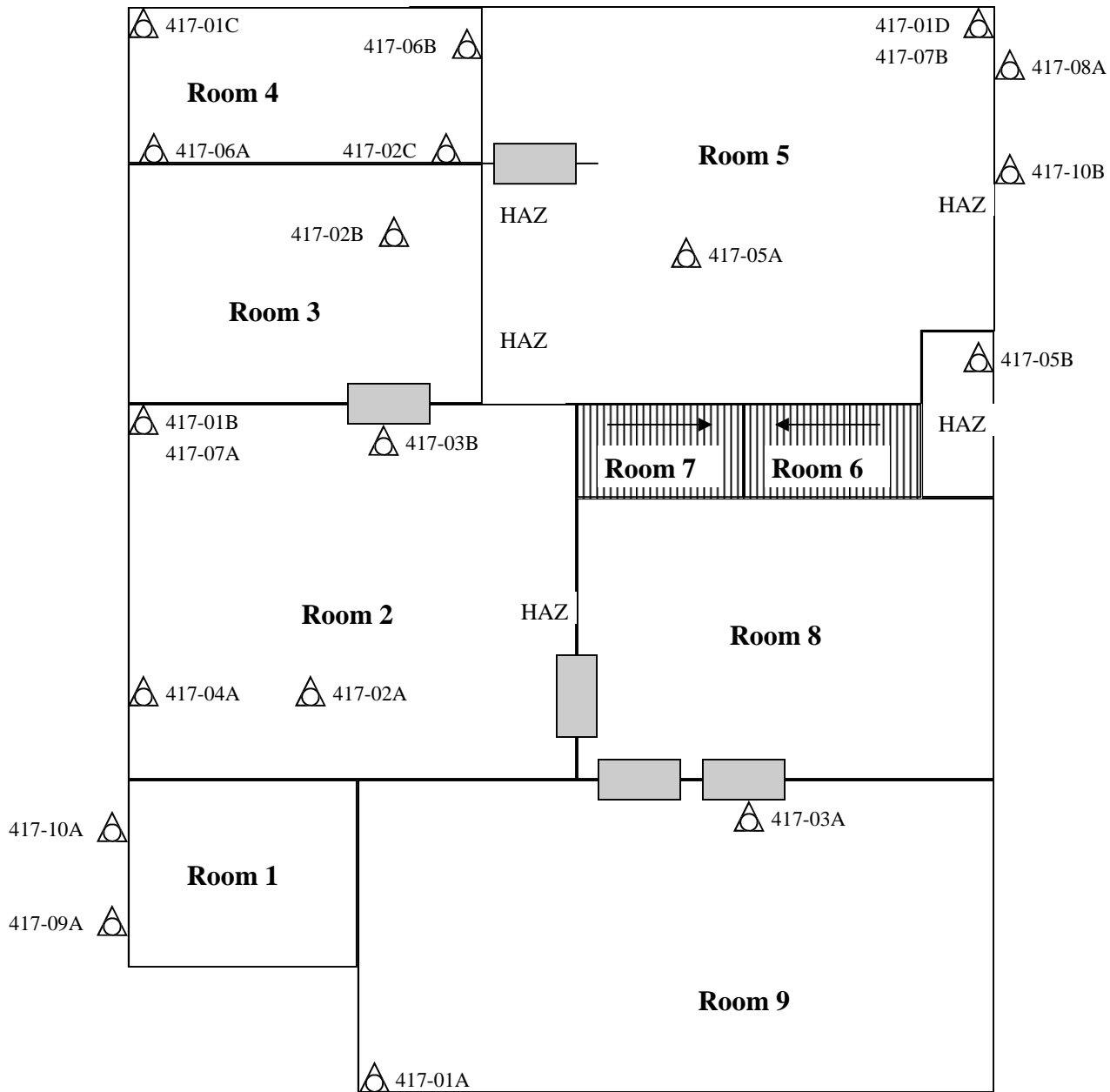
<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	F	Plaster, Grey, Wood Lattice	1st & 2nd Floor	6,800 SF	No
2	F	Textured Ceiling, White	Rooms 2-4 Ceiling, Room 12 Wall	700 SF	No
<b>3</b>	<b>F</b>	<b>Duct Insulation, Grey</b>	<b>1st Floor &amp; Basement 1 Duct Run to 2nd Floor</b>	<b>260 SF</b>	<b>Yes</b>
4	NF	Window Glaze, White	1st & 2nd Floor & Basement	22 Windows	No
5	NF	Floor Tile, Stuck On, Grey	Rooms 5 & 6	250 SF	No
6	NF	Linoleum & Paper Back, White	Room 4	100 SF	No
7	F	Blown-In, White	1st & 2nd Floor Exterior Walls	3,600 SF	No
8	NF	Roof Shingle, Grey Green	Roof of House & Garage, 1st	2,000 SF	No
9	NF	Roof Shingle, Green	Roof of House & Garage, 2nd	2,000 SF	No
10	F	House Wrap, Black	Underwood Siding	3,800 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

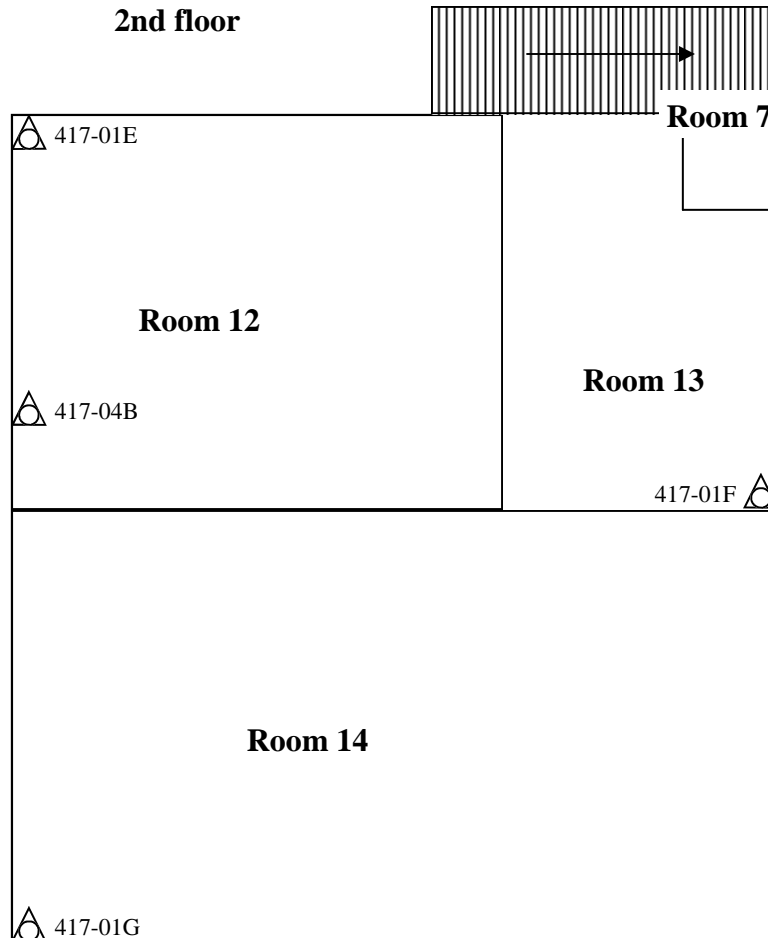
**1st floor**





- HAZ Hazardous materials
-  Sample Location
-  Tires

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.

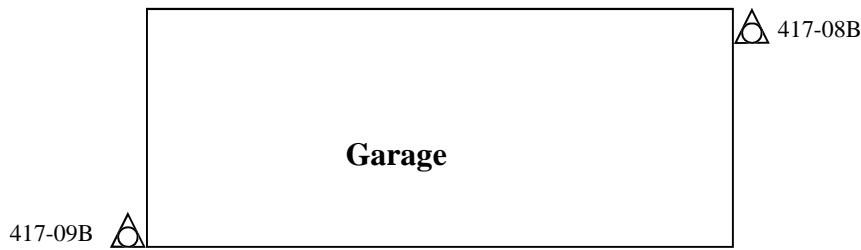




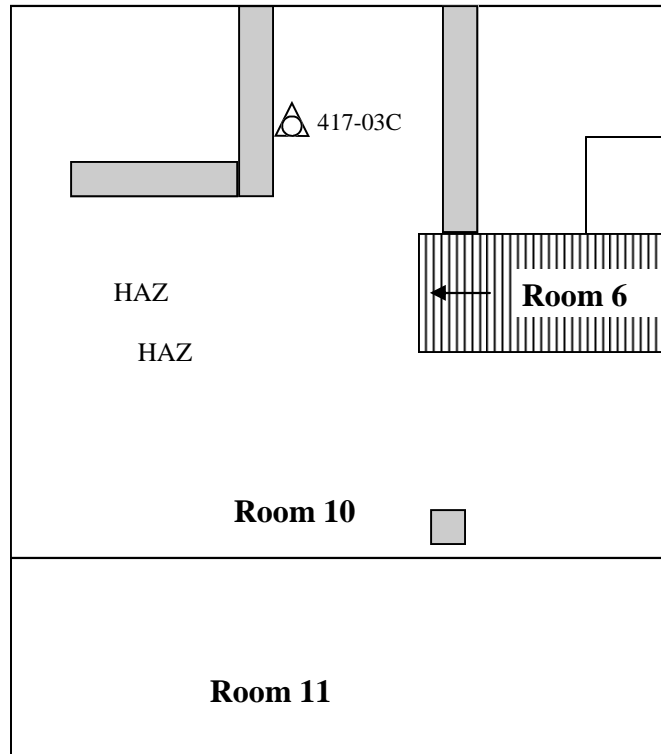
- HAZ      Hazardous materials
-       Sample Location
-       Tires



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



### Basement



- HAZ Hazardous materials
-  Sample Location
-  Tires

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:	33-01-01-16-108-241
House No.	417 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/04/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-16-108-241
House No.	417 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/04/2015



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-108-241  
House No. 417 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/04/2015



Refrigerator,  
Room 5



Freezer,  
Room 5



Smoke Detector,  
Room 5



Fire Extinguisher,  
Room 10

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-16-108-241  
House No. 417 W. Lapeer St., Lansing, MI 48933  
Date Inspected: 08/04/2015



Paint Can (Latex),  
Room 6



Paint Can (Latex),  
Room 10



Mercury Thermostat,  
Room 2

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-16-108-241
House No.	417 W. Lapeer St., Lansing, MI 48933
Date Inspected:	08/04/2015



Duct Insulation,  
1st Floor & Basement,  
1 Duct Run to 2nd Floor



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 : Vacant Residence  
417 W. Lapeer St., Lansing, MI

**Attention :**

Client Project : 33-01-01-16-108-241

ETC Job : 173529

Report Date : 8/10/2015

Login #	Sample ID	Work Requested	Completed
357149	1A	Asbestos Analysis	08/10/2015
357150	1B	Asbestos Analysis	08/10/2015
357151	1C	Asbestos Analysis	08/10/2015
357152	1D	Asbestos Analysis	08/10/2015
357153	1E	Asbestos Analysis	08/10/2015
357154	1F	Asbestos Analysis	08/10/2015
357155	1G	Asbestos Analysis	08/10/2015
357156	2A	Asbestos Analysis	08/10/2015
357157	2B	Asbestos Analysis	08/10/2015
357158	2C	Asbestos Analysis	08/10/2015
357159	3A	Asbestos Analysis	08/10/2015
357160	3B	Asbestos Analysis	08/10/2015
357161	3C	Asbestos Analysis	08/10/2015
357162	4A	Asbestos Analysis	08/10/2015
357163	4B	Asbestos Analysis	08/10/2015
357164	5A	Asbestos Analysis	08/10/2015
357165	5B	Asbestos Analysis	08/10/2015
357166	6A	Asbestos Analysis	08/10/2015
357167	6B	Asbestos Analysis	08/10/2015
357168	7A	Asbestos Analysis	08/10/2015

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
357169	7B	Asbestos Analysis	08/10/2015
357170	8A	Asbestos Analysis	08/10/2015
357171	8B	Asbestos Analysis	08/10/2015
357172	9A	Asbestos Analysis	08/10/2015
357173	9B	Asbestos Analysis	08/10/2015
357174	10A	Asbestos Analysis	08/10/2015
357230	10B	Asbestos Analysis	08/10/2015

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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 :** Vacant Residence  
 417 W. Lapeer St., Lansing, MI

**ETC Job :** 173529  
**Client Project :** 33-01-01-16-108-241  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/10/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357149 1A 9 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357150 1B 2 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357151 1C 4 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357152 1D 5 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357153 1E 12 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357154 1F 13 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357155 1G 14 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% 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 :** Vacant Residence  
 417 W. Lapeer St., Lansing, MI

**ETC Job :** 173529  
**Client Project :** 33-01-01-16-108-241  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/10/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357156 2A 2 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357157 2B 3 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357158 2C 4 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357159 3A 9 Analyst: Shea Burgeson	Duct Insulation	Grey Fibrous Homogenous		70% Other	30% Chrysotile
357160 3B 2 Analyst: Shea Burgeson		Not Analyzed			
357161 3C 10 Analyst: Shea Burgeson		Not Analyzed			
357162 4A 2 Analyst: Shea Burgeson	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% 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 :** Vacant Residence  
 417 W. Lapeer St., Lansing, MI

**ETC Job :** 173529  
**Client Project :** 33-01-01-16-108-241  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/10/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357163 4B 12 Analyst: Shea Burgeson	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
357164 5A 5 Analyst: Shea Burgeson	Stuck-On Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357165 5B 6 Analyst: Shea Burgeson	Stuck-On Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357166 6A 4 Analyst: Shea Burgeson	Linoleum	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357167 6B 4 Analyst: Shea Burgeson	Linoleum	White Non-Fibrous Homogenous		100% Other	None Detected
357168 7A 2 Analyst: Shea Burgeson	Blown-In Insulation	White Fibrous Homogenous	1% Cellulose 90% Mineral wool	9% Other	None Detected
357169 7B 5 Analyst: Shea Burgeson	Blown-In Insulation	White Fibrous Homogenous	90% Mineral wool	10% 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 :** Vacant Residence  
 417 W. Lapeer St., Lansing, MI

**ETC Job :** 173529  
**Client Project :** 33-01-01-16-108-241  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/10/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357170 8A Exterior Analyst: Shea Burgeson	Roof Shingle	Grey/Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357171 8B Exterior Analyst: Shea Burgeson	Roof Shingle	Grey/Green Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357172 9A Exterior Analyst: Shea Burgeson	Roof Shingle	Green Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
357173 9B Exterior Analyst: Shea Burgeson	Roof Shingle	Green Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357174 10A Exterior Analyst: Shea Burgeson	House Wrap	Black Fibrous Homogenous	75% Cellulose	25% Other	None Detected
357230 10B Exterior Analyst: Shea Burgeson	House Wrap	Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Shea Burgeson

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
417 W. Lapeer St., Lansing, MI

**ETC Job :** 173529  
**Client Project :** 33-01-01-16-108-241  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/10/2015

---

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------

400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")  
Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples  
Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples  
EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials  
EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

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ENVIRONMENTAL TESTING LABORATORIES, INC  
 38800 HURON RIVER DRIVE  
 ROMULUS, MICHIGAN 48174  
 (734) 955-6600  
 FAX: (734) 992-2261  
 www.2ell.com

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 173529

<b>Client:</b> ETC	<b>Contact:</b> Tammy Wall	<b>Project Location/Name:</b>
<b>Address:</b>	<b>Phone:</b>	417 W. Lapeer
	<b>Fax:</b>	
	<b>E-mail:</b> results@2etc.com	<b>Client Project #:</b>
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		<b>Date Sampled:</b> 8/4/15

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

**PLM Instructions (Check all that apply)**

PLM EPA600/R-93/116, 1993 (Standard method)

Point Counting: 400 Points\*

PLM Non-Building Material (Dust, Wipe, Tape)

Soil or Vermiculite Analysis \*

Stop at 1st Positive -  
 Clearly mark Homogeneous Group

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
357149	1A-G		
	2A-C		
	3A-C		
	4A-B		
357173			
357230	10A-B		

Requisitioned (Name/Organization):	Date	Time
Source Control	8/7/15	
Received (Name/ETL):	8/7/15	10:07
Stereoscopic Analysis (Name/ETL):	8/7/15	
Sample Login (Name/ETL):		
Analysis (Name/ETL):		
QA/QC Review (Name/ETL):	8/7/15	

**Special Instructions:**

**Remarks:**

## Asbestos Material Sampling Summary Sheet Surfacing materials

Revision date 2/23/2015

Job #:	Building:			Date:				
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Lot	Sample Location Nest only to room	Material Located throughout bldg (Please list all rooms)	Quantity	Picture #	
1	Material: Plaster	F	A	9	357149	1st/2nd Floor	6800 <sup>2</sup> ft	131325
	Gray wood lattice		B	2	357150			
			C	4	357151			
			D	5	357152			
			E	12	357153			
			F	13	357154			
			G	14	357155			
2	Material: Textured ceiling	F	A	2	357156	Rm 2,3,4 ceiling	700 <sup>2</sup> ft	131329
	white		B	3	357157			
			C	4	357158			

<1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision Date 2/23/2015

Job #: 173529		Building: 417 W. Laurel			Date: 2-11-2015			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
3	Material: Duct insulation	F	A	9	357159	1st Floor + Basement	260ft <sup>2</sup>	131348
	Description: Grey		B	2				
			C	10				
	Material:							
	Description:							
	Material:							
	Description:							
	Material:							
	Description:							
	Material:							
	Description:							
	Material:							
	Description:							

3 samples with the exception of patches less than 8 LF or 6 SF, then only 1 sample

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #:		Building:			Date:		
Material no.	Material Description	Fibrous (F) / Non-Fibrous (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
4	Material: Window Glazing	NF	A	2	357162	22	131417
	Description: white		B	12	357163		
5	Material: Floor Tile Struckon	NF	A	5	357164	2500 <sup>sq ft</sup>	131427
	Description: Grey		B	6	357165		
6	Material: Insulation Paperbacking	NF	A	4	357166	100 <sup>sq ft</sup>	131439
	Description: white		B	4	357167		
7	Material: Blown in	F	A	2	357168	3600 <sup>sq ft</sup>	131507
	Description: white		B	5	357169		
8	Material: Roof Shingle	NF	A	exterior	357170	2000 <sup>sq ft</sup>	121331
	Description: light Green		B	" "	" "		
9	Material: Roof Shingle	NF	A	exterior	357172	2000 <sup>sq ft</sup>	121331
	Description: Green		B	" "	" "		
10	Material: House wrap	F	A	exterior	357174	3800 <sup>sq ft</sup>	131507
	Description: Black		B	" "	" "		
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

2 samples

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**.

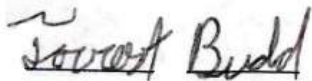
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33010116358141
House No:	5 Savoy Ct., Lansing, MI 48933
Date Inspected:	August 2, 2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1,400 SF	Garage Square Footage	
Basement Square Footage	700 SF	Garage Siding	
Siding	Transite	Garage Color	
Color	Purple	Garage Shingles	
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas			





# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33010116358141  
House No. 5 Savoy Ct., Lansing, MI 48933  
Date Inspected: August 2, 2015

**TABLE 1**

## HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Mercury Thermostat	1	Room 1

## TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33010116358141
House No.	5 Savoy Ct., Lansing, MI 48933
Date Inspected:	August 2, 2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
<b>1</b>	<b>F</b>	<b>Plaster, Grey, Wood Lattice</b>	<b>1st &amp; 2nd Floor, Basement</b>	<b>7600 SF</b>	<b>Yes</b>
2	F	Textured Ceiling, White	Room 2, 1st Floor	4600 SF	No
3	NF	Window Glaze, White	Room 2, 2nd Floor	24 Windows	No
4	NF	Floor Tile, Stuck On, 12x12, White	Room 2, 3rd Floor	200 SF	No
5	NF	Floor Tile, Stuck On, 12x12, Blue & Grey	Room 12	200 SF	No
6	NF	Linoleum & Paper Backing, White	2nd Floor Ceiling	200 SF	No
7	NF	Linoleum & Paper Backing, Brown	Roof, 1st Floor	100 SF	No
8	F	Blown-In, Black	Roof, 2nd Floor	200 SF	No
9	NF	Roof Shingle, Grey	Roof, 1st Floor	1100 SF	No
10	F	Roof Felt, Black	Roof 2nd	1100 SF	No
<b>11</b>	<b>NF</b>	<b>Transite Siding, Purple</b>	<b>Siding, 1st</b>	<b>4400 SF</b>	<b>Yes</b>
12	F	Tar paper, Black	Under Transite, Siding, 2nd Floor	4400 SF	No

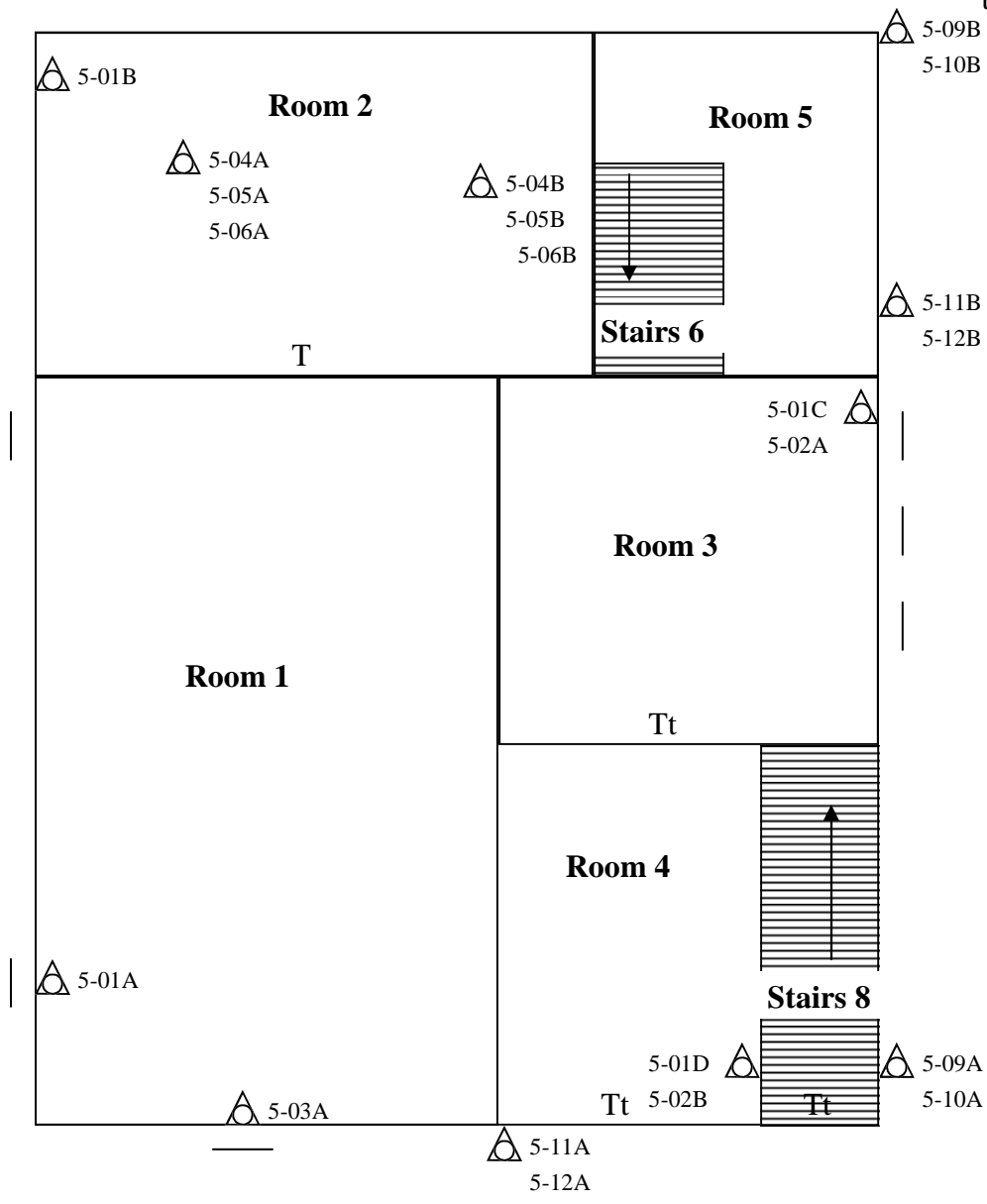
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.



Attachment:

Site Drawing

**1st floor**

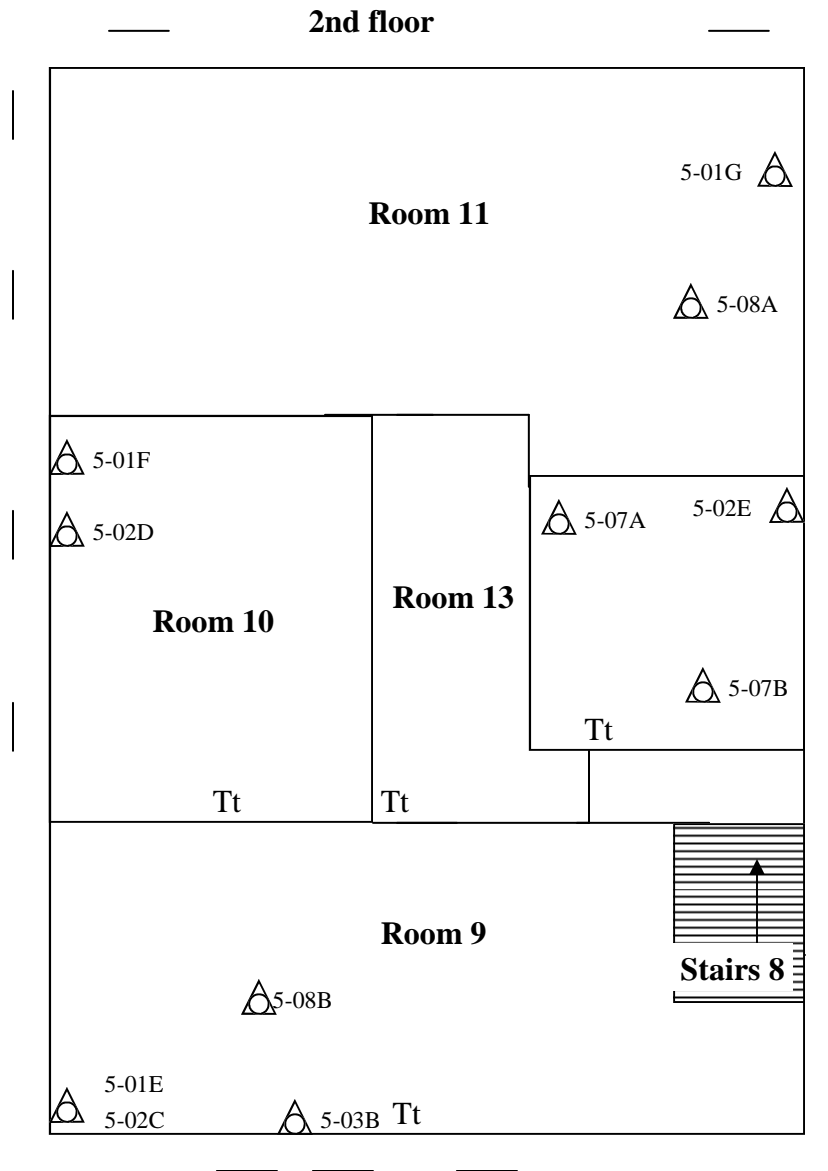
T=Textured Ceiling  
 t=Textured Wall





- HAZ Hazardous materials
-  Sample Location
-  Tires

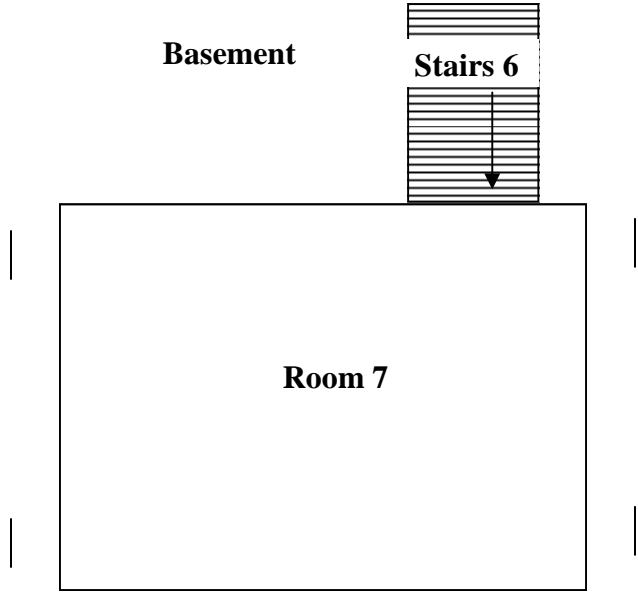
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.



T=Textured Ceiling  
t=Textured Wall



- HAZ      Hazardous materials
-       Sample Location
-       Tires

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.



- HAZ      Hazardous materials
-       Sample Location
-       Tires

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: 33010116358141  
House No. 5 Savoy Ct., Lansing, MI 48933  
Date Inspected: August 2, 2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property



## Representative Pictures of Hazardous Materials

Parcel:	33010116358141
House No.	5 Savoy Ct., Lansing, MI 48933
Date Inspected:	August 2, 2015



Mercury Thermostat,  
Room 1

## Representative Pictures of Asbestos Containing Material

Parcel: 33010116358141  
House No. 5 Savoy Ct., Lansing, MI 48933  
Date Inspected: August 2, 2015



Plaster, Grey, Wood Lattice, 1st/2nd Floor



Transite Siding, Purple, Siding, 1st

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 : Vacant Residence  
5 Savoy Ct., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-16-358-141

ETC Job : 173530

Report Date : 8/5/2015

Login #	Sample ID	Work Requested	Completed
356538	1A	Asbestos Analysis	08/05/2015
356539	1B	Asbestos Analysis	08/05/2015
356540	1C	Asbestos Analysis	08/05/2015
356541	1D	Asbestos Analysis	08/05/2015
356542	1E	Asbestos Analysis	08/05/2015
356543	1F	Asbestos Analysis	08/05/2015
356544	1G	Asbestos Analysis	08/05/2015
356545	2A	Asbestos Analysis	08/05/2015
356546	2B	Asbestos Analysis	08/05/2015
356547	2C	Asbestos Analysis	08/05/2015
356548	2D	Asbestos Analysis	08/05/2015
356549	2E	Asbestos Analysis	08/05/2015
356550	3A	Asbestos Analysis	08/05/2015
356551	3B	Asbestos Analysis	08/05/2015
356552	4A	Asbestos Analysis	08/05/2015
356553	4B	Asbestos Analysis	08/05/2015
356554	5A	Asbestos Analysis	08/05/2015
356555	5B	Asbestos Analysis	08/05/2015
356556	6A	Asbestos Analysis	08/05/2015
356557	6B	Asbestos Analysis	08/05/2015

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Login #	Sample ID	Work Requested	Completed
356558	7A	Asbestos Analysis	08/05/2015
356559	7B	Asbestos Analysis	08/05/2015
356560	8A	Asbestos Analysis	08/05/2015
356561	8B	Asbestos Analysis	08/05/2015
356562	9A	Asbestos Analysis	08/05/2015
356563	9B	Asbestos Analysis	08/05/2015
356564	10A	Asbestos Analysis	08/05/2015
356565	10B	Asbestos Analysis	08/05/2015
356566	11A	Asbestos Analysis	08/05/2015
356567	11B	Asbestos Analysis	08/05/2015
356568	12A	Asbestos Analysis	08/05/2015
356569	12B	Asbestos Analysis	08/05/2015

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Reviewed by:



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Quality Assurance Coordinator

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 5 Savoy Ct., Lansing, MI

**ETC Job :** 173530  
**Client Project :** 33-01-01-16-358-141  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356538 1A Rm 1 Layer-1 Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356538 1A Rm 1 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356539 1B Rm 2 Layer-1 Analyst: Dave Cousino	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	95% Other	2% Chrysotile
356539 1B Rm 2 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356540 1C Rm 3 Layer-1 Analyst: Dave Cousino		Not Analyzed			
356540 1C Rm 3 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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**ETC Job :** 173530  
**Client Project :** 33-01-01-16-358-141  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356541 1D Rm 4 Layer-1 Analyst: Dave Cousino		Not Analyzed			
356541 1D Rm 4 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356542 1E Rm 9 Layer-1 Analyst: Dave Cousino		Not Analyzed			
356542 1E Rm 9 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356543 1F Rm 10 Layer-1 Analyst: Dave Cousino		Not Analyzed			
356543 1F Rm 10 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174  
**Location :** Vacant Residence  
5 Savoy Ct., Lansing, MI

**ETC Job :** 173530  
**Client Project :** 33-01-01-16-358-141  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356544 1G Rm 11 Layer-1 Analyst: Dave Cousino		Not Analyzed			
356544 1G Rm 11 Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356545 2A Rm 3 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356546 2B Rm 4 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356547 2C Rm 9 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356548 2D Rm 10 Analyst: Dave Cousino	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356549 2E Rm 12 Analyst: Dave Cousino	Textured Ceiling	White 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 :** Vacant Residence  
5 Savoy Ct., Lansing, MI

**ETC Job :** 173530  
**Client Project :** 33-01-01-16-358-141  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356550 3A Rm 1 Analyst: Dave Cousino	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356551 3B Rm 9 Analyst: Dave Cousino	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356552 4A Rm 2 Analyst: Dave Cousino	12x12 Stuck-On Floor Tile	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356553 4B Rm 2 Analyst: Dave Cousino	12x12 Stuck-On Floor Tile	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356554 5A Rm 2 Analyst: Dave Cousino	12x12 Stuck-On Floor Tile	Blue/Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356555 5B Rm 2 Analyst: Dave Cousino	12x12 Stuck-On Floor Tile	Blue/Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356556 6A Rm 2 Analyst: Dave Cousino	Linoleum	Brown Fibrous Homogenous	40% Cellulose	60% Other	None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive  
Romulus, MI 48174  
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5 Savoy Ct., Lansing, MI

**ETC Job :** 173530  
**Client Project :** 33-01-01-16-358-141  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356557 6B Rm 2 Analyst: Dave Cousino	Linoleum	Brown Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356558 7A Rm 12 Layer-1 Analyst: Dave Cousino	Linoleum	White Fibrous Homogenous	30% Cellulose	70% Other	None Detected
356558 7A Rm 12 Layer-2 Analyst: Dave Cousino	Paper Backing	Tan Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356559 7B Rm 12 Layer-1 Analyst: Dave Cousino	Linoleum	White Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356559 7B Rm 12 Layer-2 Analyst: Dave Cousino	Paper Backing	Tan Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356560 8A Rm 11 Analyst: Dave Cousino	Blown-In Insulation	Black Fibrous Homogenous	2% Cellulose 98% Mineral wool		None Detected
356561 8B Rm 9 Analyst: Dave Cousino	Blown-In Insulation	Black Fibrous Homogenous	3% Cellulose 97% Mineral wool		None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356562 9A Ext Analyst: Dave Cousino	Roof Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356563 9B Ext Analyst: Dave Cousino	Roof Shingle	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356564 10A Ext Analyst: Dave Cousino	Roof Felt	Black Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356565 10B Ext Analyst: Dave Cousino	Roof Felt	Black Fibrous Homogenous	30% Cellulose	70% Other	None Detected
356566 11A Ext Analyst: Dave Cousino	Transite Siding	Purple Non-Fibrous Homogenous	10% Cellulose	85% Other	5% Chrysotile
356567 11B Ext Analyst: Dave Cousino		Not Analyzed			
356568 12A Ext Analyst: Dave Cousino	Tar Paper	Black Fibrous Homogenous	25% Cellulose	75% Other	None Detected

**Polarized Light Microscopy Asbestos Analysis Report**

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 38900 Huron River Drive  
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 5 Savoy Ct., Lansing, MI

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**Client Project :** 33-01-01-16-358-141  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356569 12B Ext Analyst: Dave Cousino	Tar Paper	Black Fibrous Homogenous	30% Cellulose	70% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Dave Cousino

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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# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 2/23/2015

Job #: 173530		Building: 5 Savoy			Date: 8-6-2015			
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location (List only the room)	Material Location throughout bldg (Please List all Rooms)	Quantity	Picture #	
1	Material: Plaster	F	A	1	356538	1st 2nd Floor	7600 <sup>sq</sup> ft	105312
	Gray wood lattice		B	2	356539			
			C	3	356540			
			D	4	356541			
			E	9	356542			
			F	10	356543			
			G	11	356544			
2	Material: Textured Ceiling	F	A	3	356545	1st 2nd Floor	4600 <sup>sq</sup> ft	105320
	White		B	4	356546			
			C	9	356547			
			D	10	356548			
			E	12	356549			
Material:								

1000 SF = 3 samples

1000 - 5000 = 5 samples

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #:		Building:		Date:			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be room:	Material Located throughout bldg. (Please List all Rooms)	Quantity	Picture #
3	Material: Window Glaze	NF	A	1 356550	1st/2nd Floor Basement	24	105333
	Description: white		B	9 356551			
4	Material: Floor Tile Stuck on	NF	A	2 356552	Rm 2 1st	200ft <sup>2</sup>	105344
	Description: 12x12 white		B	2 356553			
5	Material: Floor Tile Stuck on	NF	A	2 356554	Rm 2 2nd	700ft <sup>2</sup>	105346
	Description: 12x12 Blue Grey		B	2 356555			
6	Material: linoleum + Paperbacking	NF	A	2 356556	Rm 2 3rd	1000ft <sup>2</sup>	105346
	Description: Brown		B	2 356557			
7	Material: linoleum + Paperbacking	NF	A	12 356558	Rm 12	1000ft <sup>2</sup>	105414
	Description: white		B	12 356559			
8	Material: Blown in	F	A	11 356560	2nd Floor Ceiling	700ft <sup>2</sup>	105430
	Description: Black		B	4 356561			
9	Material: Roof Shingle	NF	A	exterior 356562	Roof 1st	1100ft <sup>2</sup>	105515
	Description: Grey		B	11 356563			
10	Material: Roof felt	F	A	exterior 356564	Roof 2nd	1150ft <sup>2</sup>	105515
	Description: Black		B	11 356565			
11	Material: Transit Siding	NF	A	exterior 356566	Siding 1st	4400ft <sup>2</sup>	105536
	Description: Purple		B	11 356567			
12	Material: Tar Paper	F	A	exterior 356568	under transit Siding 2nd	4400ft <sup>2</sup>	105536
	Description: Black		B	11 356569			

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: \_\_\_\_\_

Forrest Budd , Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-20-134-132
House No:	914 Riverview Ave., Lansing, MI 48915
Date Inspected:	08/05/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

## Building Information

No. Stories	2	Garage	Attached
Square Footage	1,600 SF	Garage Square Footage	300 SF
Basement Square Footage	800 SF	Garage Siding	Wood
Siding	Wood & Cement	Garage Color	Green
Color	Green	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: 33-01-01-20-134-132  
House No. 914 Riverview Ave., Lansing, MI 48915  
Date Inspected: 08/05/2015

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Refrigerator	1	Room 14
Freezer	1	Room 22

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-20-134-132
House No.	914 Riverview Ave., Lansing, MI 48915
Date Inspected:	08/05/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Plaster, Grey, Wood Lattice	1st & 2nd Floor	8,400 SF	No
2	F	Texture Ceiling, White	Rooms 4, 6 & 7	500 SF	No
3	F	Popcorn Ceiling, White	Rooms 19-23 & 25	700 SF	No
<b>4</b>	<b>F</b>	<b>Duct Insulation, Grey</b>	<b>1st Floor 3 Ducts</b>	<b>200 SF</b>	<b>Yes</b>
5	F	Drywall, White	1st Floor & Basement	4,200 SF	No
6	F	Tape, White	1st Floor & Basement	4,200 SF	No
7	F	Mud, White	1st Floor & Basement	4,200 SF	No
8	NF	Linoleum & Paper Back, Brown	Room 20	100 SF	No
9	NF	Floor Tile, Stuck On, Grey, 12x12	Room 23	150 SF	No
10	NF	Window Glaze, White	1st & 2nd Floor & Basement	21 Windows	No
11	NF	Linoleum & Paper Back, White Green	Room 11	60 SF	No
12	NF	Floor Tile, Stuck On, 12x12, Brown	Room 3, 1st	200 SF	No
13	NF	Floor Tile, Stuck On, 12x12, White	Room 3, 2nd	200 SF	No
14	NF	Vapor Barrier, Orange Green	Room 3, 3rd	200 SF	No
15	NF	Linoleum & Paper Back, Brown	Room 3, 4th	200 SF	No
16	NF	Linoleum & Paper Back, White	Rooms 5 & 6	150 SF	No
17	NF	Ceiling Tile, 12x12, White Brown	Room 8	150 SF	No
18	NF	Glue Pods, Brown	Room 8	150 SF	No
19	NF	Linoleum & Paper Back, Brown	Room 17	80 SF	No
20	NF	Roof Shingle, Black	Roof of House & Garage	1,600 SF	No

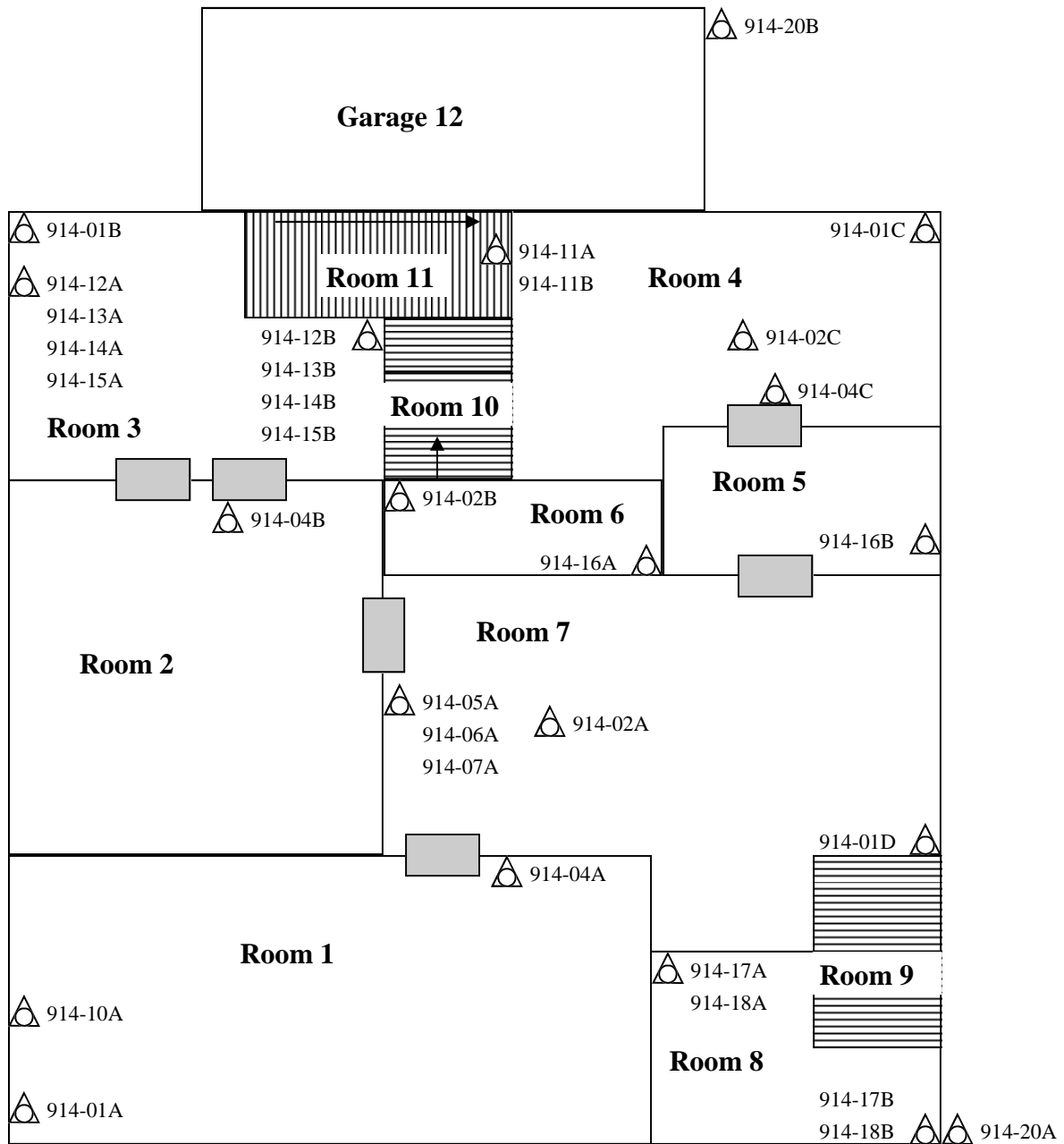
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.



Attachment:

Site Drawing

1st floor

33-01-01-20-134-132  
914 Riverview Ave., Lansing, MI 48915  
08/05/2015

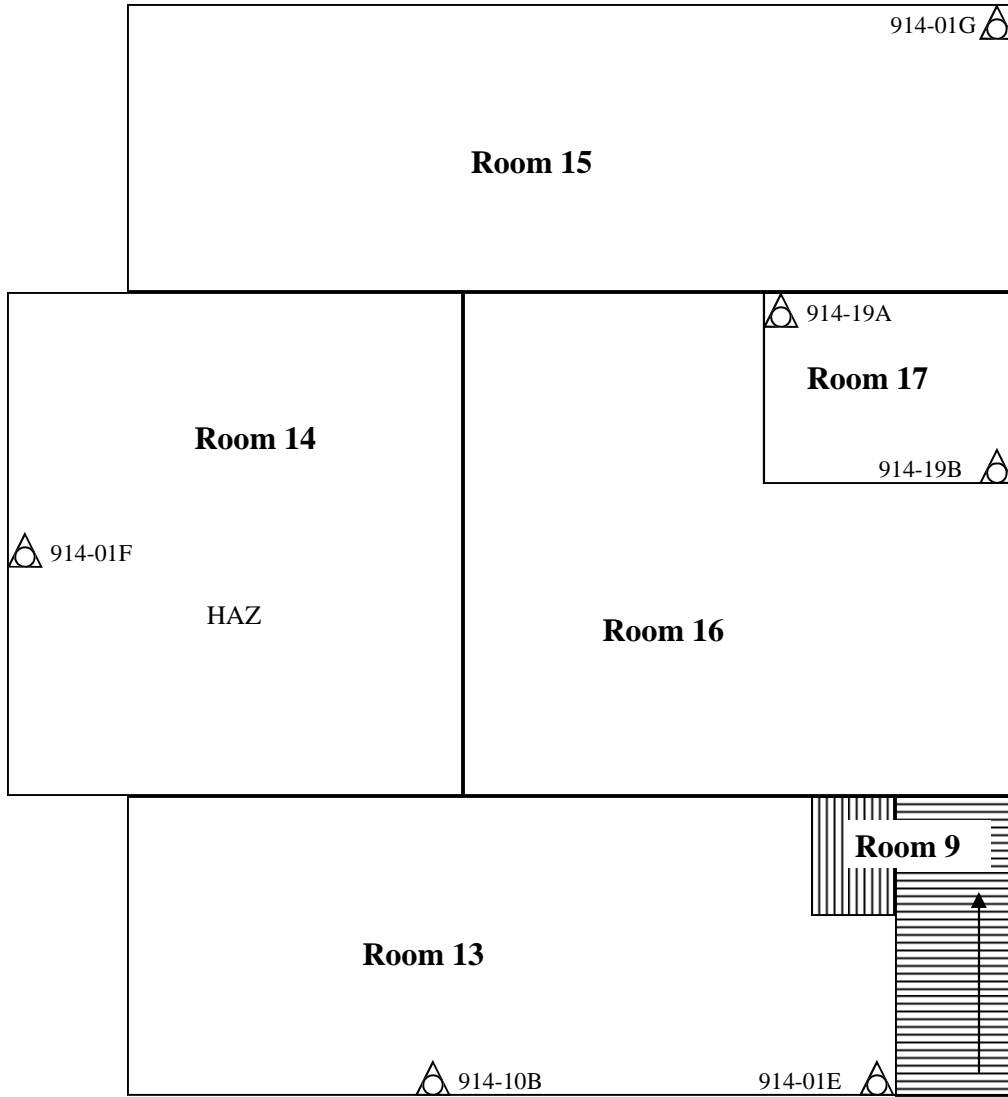




- HAZ Hazardous materials
-  Sample Location
-  Tires

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  
173531

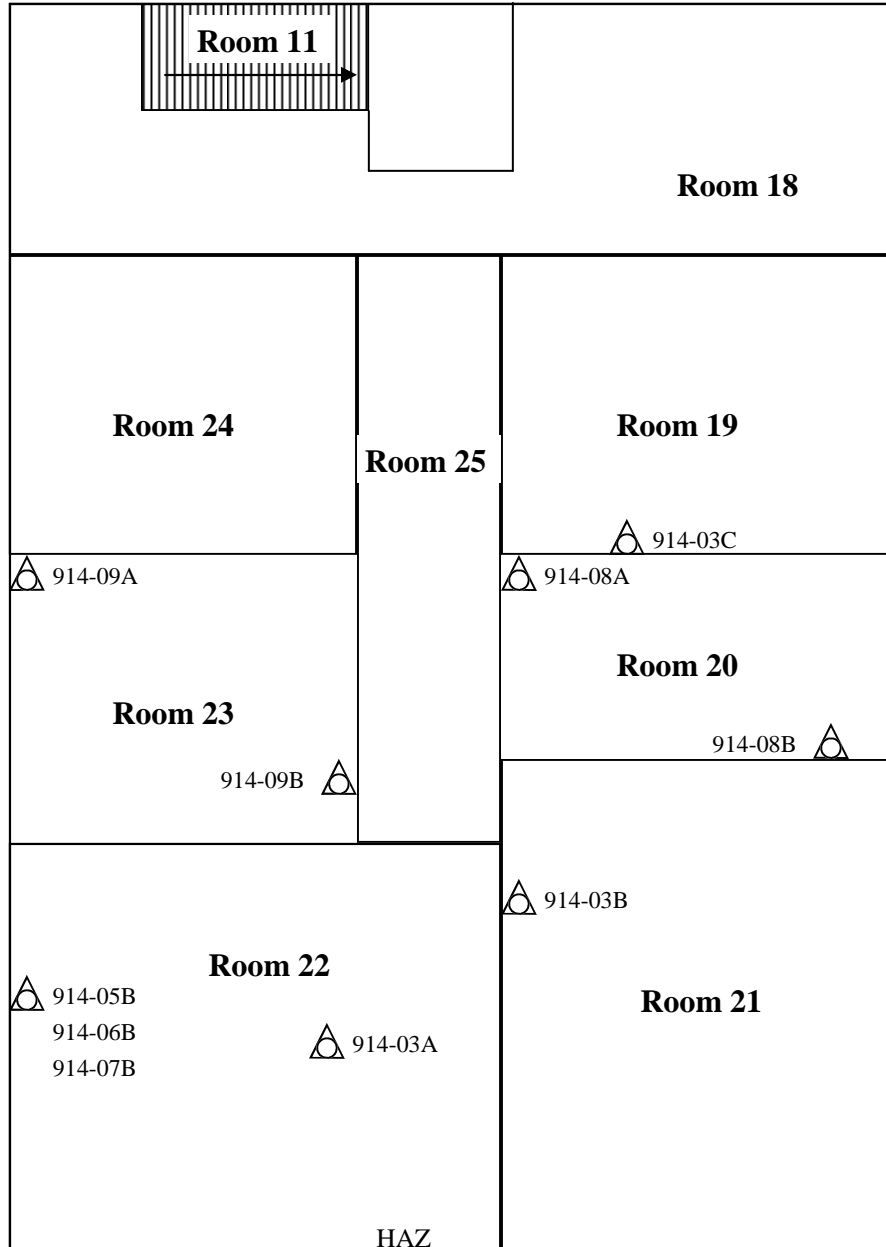
**2nd floor**



- HAZ Hazardous materials
-  Sample Location
-  Tires

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.





HAZ Hazardous materials

 Sample Location

 Tires

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: 33-01-01-20-134-132  
House No. 914 Riverview Ave., Lansing, MI 48915  
Date Inspected: 08/05/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-20-134-132
House No.	914 Riverview Ave., Lansing, MI 48915
Date Inspected:	08/05/2015



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-20-134-132  
House No. 914 Riverview Ave., Lansing, MI 48915  
Date Inspected: 08/05/2015



Refrigerator,  
Room 14



Freezer,  
Room 22

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-20-134-132
House No.	914 Riverview Ave., Lansing, MI 48915
Date Inspected:	08/05/2015



Duct Insulation,  
1st Floor, 3 Duct Runs

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 :** Vacant Residence  
914 Riverview Ave., Lansing, MI

**Attention :** Roxanne Case

**Client Project :** 33-01-01-20-134-132

**ETC Job :** 173531

**Report Date :** 8/11/2015

Login #	Sample ID	Work Requested	Completed
357279	1A	Asbestos Analysis	08/11/2015
357280	1B	Asbestos Analysis	08/11/2015
357281	1C	Asbestos Analysis	08/11/2015
357282	1D	Asbestos Analysis	08/11/2015
357283	1E	Asbestos Analysis	08/11/2015
357284	1F	Asbestos Analysis	08/11/2015
357285	1G	Asbestos Analysis	08/11/2015
357286	2A	Asbestos Analysis	08/11/2015
357287	2B	Asbestos Analysis	08/11/2015
357288	2C	Asbestos Analysis	08/11/2015
357289	3A	Asbestos Analysis	08/11/2015
357290	3B	Asbestos Analysis	08/11/2015
357291	3C	Asbestos Analysis	08/11/2015
357292	4A	Asbestos Analysis	08/11/2015
357293	4B	Asbestos Analysis	08/11/2015
357294	4C	Asbestos Analysis	08/11/2015
357295	5A	Asbestos Analysis	08/11/2015
357296	5B	Asbestos Analysis	08/11/2015
357297	6A	Asbestos Analysis	08/11/2015
357298	6B	Asbestos Analysis	08/11/2015



Login #	Sample ID	Work Requested	Completed
357299	7A	Asbestos Analysis	08/11/2015
357300	7B	Asbestos Analysis	08/11/2015
357301	8A	Asbestos Analysis	08/11/2015
357302	8B	Asbestos Analysis	08/11/2015
357303	9A	Asbestos Analysis	08/11/2015
357304	9B	Asbestos Analysis	08/11/2015
357305	10A	Asbestos Analysis	08/11/2015
357306	10B	Asbestos Analysis	08/11/2015
357307	11A	Asbestos Analysis	08/11/2015
357308	11B	Asbestos Analysis	08/11/2015
357309	12A	Asbestos Analysis	08/11/2015
357310	12B	Asbestos Analysis	08/11/2015
357311	13A	Asbestos Analysis	08/11/2015
357312	13B	Asbestos Analysis	08/11/2015
357313	14A	Asbestos Analysis	08/11/2015
357314	14B	Asbestos Analysis	08/11/2015
357315	15A	Asbestos Analysis	08/11/2015
357316	15B	Asbestos Analysis	08/11/2015
357317	16A	Asbestos Analysis	08/11/2015
357318	16B	Asbestos Analysis	08/11/2015
357319	17A	Asbestos Analysis	08/11/2015
357320	17B	Asbestos Analysis	08/11/2015
357321	18A	Asbestos Analysis	08/11/2015
357322	18B	Asbestos Analysis	08/11/2015
357323	19A	Asbestos Analysis	08/11/2015
357324	19B	Asbestos Analysis	08/11/2015
357325	20A	Asbestos Analysis	08/11/2015

Login #	Sample ID	Work Requested	Completed
357326	20B	Asbestos Analysis	08/11/2015

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 :** Vacant Residence  
914 Riverview Ave., Lansing, MI

**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357279 1A 1 Layer-1 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357279 1A 1 Layer-2 Analyst: Kaylin Carey	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
357280 1B 3 Layer-1 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357280 1B 3 Layer-2 Analyst: Kaylin Carey	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357281 1C 4 Layer-1 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
357281 1C 4 Layer-2 Analyst: Kaylin Carey	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357282 1D 7 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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**ETC Job :** 173531  
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**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357283 1E 13 Layer-1 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357283 1E 13 Layer-2 Analyst: Kaylin Carey	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357284 1F 14 Layer-1 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357284 1F 14 Layer-2 Analyst: Kaylin Carey	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
357285 1G 15 Layer-1 Analyst: Kaylin Carey	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357285 1G 15 Layer-2 Analyst: Kaylin Carey	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
357286 2A 7 Analyst: Kaylin Carey	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174  
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**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357287 2B 6 Analyst: Kaylin Carey	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357288 2C 4 Analyst: Kaylin Carey	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357289 3A 22 Analyst: Kaylin Carey	Popcorn Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357290 3B 21 Analyst: Kaylin Carey	Popcorn Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357291 3C 19 Analyst: Kaylin Carey	Popcorn Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357292 4A 7 Analyst: Kaylin Carey	Duct Insulation	Grey Fibrous Homogenous		50% Other	50% Chrysotile
357293 4B 2 Analyst: Kaylin Carey		Not Analyzed			

### Polarized Light Microscopy Asbestos Analysis Report

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**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357294 4C 4 Analyst: Kaylin Carey		Not Analyzed			
357295 5A 7 Analyst: Kaylin Carey	Drywall	White Non-Fibrous Homogenous		100% Other	None Detected
357296 5B 22 Analyst: Kaylin Carey	Drywall	White Non-Fibrous Homogenous		100% Other	None Detected
357297 6A 7 Analyst: Kaylin Carey	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
357298 6B 22 Analyst: Kaylin Carey	Tape	White Fibrous Homogenous	100% Cellulose		None Detected
357299 7A 7 Analyst: Kaylin Carey	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357300 7B 22 Analyst: Kaylin Carey	Mud	White 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 :** Vacant Residence  
 914 Riverview Ave., Lansing, MI

**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357301 8A 20 Analyst: Kaylin Carey	Linoleum	Brown Fibrous Homogenous	15% Cellulose	85% Other	None Detected
357302 8B 20 Analyst: Kaylin Carey	Linoleum	Brown Fibrous Homogenous	20% Cellulose	80% Other	None Detected
357303 9A 23 Layer-1 Analyst: Kaylin Carey	12x12 Stuck-On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
357303 9A 23 Layer-2 Analyst: Kaylin Carey	Mastic	Black Non-Fibrous Homogenous		100% Other	None Detected
357304 9B 23 Layer-1 Analyst: Kaylin Carey	12x12 Stuck-On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
357304 9B 23 Layer-2 Analyst: Kaylin Carey	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357305 10A 1 Analyst: Kaylin Carey	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% 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

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38900 Huron River Drive  
Romulus, MI 48174  
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**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357306 10B 13 Analyst: Kaylin Carey	Window Glaze	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357307 11A 11 Analyst: Kaylin Carey	Linoleum	White/Green Fibrous Homogenous	8% Cellulose 92% Other fibrous		None Detected
357308 11B 11 Analyst: Kaylin Carey	Linoleum	White/Green Fibrous Homogenous	10% Cellulose 90% Other fibrous		None Detected
357309 12A 3 Analyst: Kaylin Carey	12x12 Stuck-On Floor Tile	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
357310 12B 3 Analyst: Kaylin Carey	12x12 Stuck-On Floor Tile	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357311 13A 3 Analyst: Kaylin Carey	12x12 Stuck-On Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357312 13B 3 Analyst: Kaylin Carey	12x12 Stuck-On Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected



### Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
914 Riverview Ave., Lansing, MI

**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357313 14A 3 Analyst: Kaylin Carey	Vapor Barrier	Orange/Green Fibrous Homogenous	10% Cellulose	90% Other	None Detected
357314 14B 3 Analyst: Kaylin Carey	Vapor Barrier	Orange/Green Fibrous Homogenous	10% Cellulose	90% Other	None Detected
357315 15A 3 Analyst: Kaylin Carey	Linoleum	Brown Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
357316 15B 3 Analyst: Kaylin Carey	Linoleum	Brown Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
357317 16A 6 Analyst: Kaylin Carey	Linoleum	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357318 16B 5 Analyst: Kaylin Carey	Linoleum	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357319 17A 8 Analyst: Kaylin Carey	12x12 Ceiling Tile	White/Brown Non-Fibrous Homogenous	100% Cellulose		None Detected

### Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
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**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357320 17B 8 Analyst: Kaylin Carey	12x12 Ceiling Tile	White/Brown Non-Fibrous Homogenous	100% Cellulose		None Detected
357321 18A 8 Analyst: Kaylin Carey	Glue Pod	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357322 18B 8 Analyst: Kaylin Carey	Glue Pod	Brown Non-Fibrous Homogenous		100% Other	None Detected
357323 19A 17 Analyst: Kaylin Carey	Linoleum	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
357324 19B 17 Analyst: Kaylin Carey	Linoleum	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357325 20A Exterior Analyst: Kaylin Carey	Roof Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357326 20B Exterior Analyst: Kaylin Carey	Roof Shingle	Black Non-Fibrous Homogenous	2% Mineral wool	98% Other	None Detected

**Polarized Light Microscopy Asbestos Analysis Report**

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 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 914 Riverview Ave., Lansing, MI

**ETC Job :** 173531  
**Client Project :** 33-01-01-20-134-132  
**Date Collected :** 08/05/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/11/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------



Lab Supervisor/Other Signatory



Analyst: Kaylin Carey

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.2etl.com

Bulk Asbestos  
 Chain of Custody

Client: ETC  
 Contact: Tammy Wall  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: results@2etl.com  
 Please Provide Results:  Email  Fax  Verbal  Other \_\_\_\_\_  
 Turnaround Time (TAT):  RUSH  Same Day  24 hr  48 hr  Standard (3+ days)  Other \_\_\_\_\_

ETL Project #: 173531  
 Project Location/name: 914 Riverview  
 Client Project #:  
 Date Sampled: 8/5/15

PLM Instructions  
 (Check all that apply)  
 PLM EPA600/R-93/116, 1993 (Standard method)  
 Point Counting: 400 Points\*  
 PLM Non-Building Material (Dust, Wipe, Tape)  
 Stop at 1st Positive -  
 Clearly mark Homogenous Group  
 Soil or Vermiculite Analysis \*

\*Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
357219	1A-G		
	2A-C		
	3A-C		
	4A-C		
	5A-B		
357326	20A-B		

Relinquished (Name/Organization):	<i>Joseph Smith</i>	Date	8/7/15	Time	
Received (Name/ETL):	<i>Jessica M. Meyer</i>				am/pm
Stereoscopical Analysis (Name/ETL):	<i>Kayla Cery</i>		8/7/15	10:12	am/pm
Sample Login (Name/ETL):			8/7/15	4:40	am/pm
Analysis (Name/ETL):	<i>Kayla Cery</i>				am/pm
QA/QC Review (Name/ETL):			8/7/15	4:40	am/pm
Special Instructions:					am/pm
		Remarks:			

# Asbestos Material Sampling Summary Sheet

## Surfacting materials

Revision date 2/23/2015

Job #:	173531	Building:	914 R/Vel View	Date:	8-5-2015		
Material no.	Material Description	Phase (P) / Non-Phase (NF)	Sample Location	Material Location (throughout only) (Please list all rooms)	Quantity	Picture #	
1	Material: Plaster Grey wood lattice	F	A	1	1st 2nd	846024	124613
			B	3			
			C	4	Floor		
			D	7			
			E	13			
			F	14			
2	Material: Tepered Ceiling White	F	G	15			124652
			A	7	Rm 7,6,4	50024	
			B	6			
			C	6			
3	Material: Popcorn Ceiling White	F	A	22	Rm 19,20,21,	70024	124740
			B	21	22, 23, 25		
			C	19			
			C	19			

1000 SF = 3 samples

1000 SF = 5 samples

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

Revision date 2/23/2015

Job #: 173531

Building: 914 River View

Date: 8-5-2013

Material No.	Material Description	Pattern (Y/N)	Sample Lot	Sample Location (Must only be room)	Material Located throughout Bldg (Please list all locations)	Quantity	Picture #
4	Material: Duct Insulation Description: Grey	F	A B C	7 2 4	1st Floor Duct Runs	200 <sup>3</sup> ft	124700
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						

3 samples with the exception of patches less than 6 LF or 6 SF, than only 1 sample

Asbestos Material Sampling Summary Sheet  
Miscellaneous materials

Revision date 7/23/2015

Job #:	Material no.	Material Description	Building:	Sample Letter	Sample Location	Material Location	Quantity	Picture #
173531			914 RiverView					
5	Material: Duvall Description: White	F	A	7	357295	1st Floor +	4200#	125106
6	Material: Tape Description: White	F	A	7	357297	1st Floor +	4700#	125160
7	Material: Mud Description: White	F	A	7	357299	1st Floor +	4200#	125100
8	Material: Linoleum Paperbacking Description: Brown	NF	A	20	357301	Rm 20	100#	124751
9	Material: Floor Tile Stackon Description: Grey 12x12	NF	A	23	357303	Rm 23	150#	124804
10	Material: Window Glaze Description: White	NF	A	1	357305	1st End Floor	21	124940
11	Material: Linoleum Paperbacking Description: White Green	NF	A	13	357306	Basement	60#	124948
12	Material: Floor Tile Stackon Description: 17x17 Brown	NF	A	11	357307	Rm 11	124940	
13	Material: Floor Tile Stackon Description: 12x12 White	NF	A	3	357309	Rm 3	100#	125001
14	Material: Vapor Barrier Description: Orange Green	NF	A	3	357311	Rm 3	200#	125001
					357312	Rm 3	200#	125001
					357313	Rm 3	200#	125001
					357314	Rm 3	200#	125001

7 samples

Asbestos Material Sampling Summary Sheet  
Miscellaneous Materials

Revision date 2/23/2015

Job #:	173531	Building:	914 Riverview	Check:	8-5-15		
Material no.	Material Description	Grade (%) Wet Finish (NF)	Sample Letter	Sample Location (Head only for room)	Material, located throughout this (Please list all locations)	Quantity	Pieces #
15	Material: Linoleum + paper backing Description: Brown	NF	A	3	Rm 3	200#	125001
16	Material: Linoleum + paper backing Description: White	NF	A	6	Rm 6/5	150#	125100
17	Material: Ceiling Tile Description: 12x12 White Brown	WF	A	7	Rm 6	150#	125052
18	Material: Glue Pol Description: Brown	NF	A	8	Rm 8	150#	12832
19	Material: Insulation + paper backing Description: Brown	NF	A	17	Rm 17	80#	125100
20	Material: Roof Shingle Description: Black	NF	A	Refer to 11	Roof + Hous. + Garage	1600#	112430
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						

3 samples



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**.

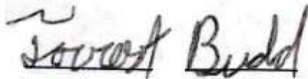
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

**Ingham County Land Bank**  
 3024 Turner Street  
 Lansing, MI 48906

Parcel:	33-01-01-20-135-021
House No:	909 Riverview Ave., Lansing, MI 48915
Date Inspected:	8/2/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

Building Information			
No. Stories	1	Garage	No Garage
Square Footage	500 SF	Garage Square Footage	
Basement Square Footage	500 SF	Garage Siding	
Siding	Vinyl/Wood	Garage Color	
Color	Grey	Garage Shingles	
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas	All Vinyl Windows		



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-20-135-021  
House No. 909 Riverview Ave., Lansing, MI 48915  
Date Inspected: 8/2/2015

## TABLE 1

### HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
----------------------	------------------	----------

None observed above household quantities		
--	--	--

### TIRE(s) REPORT

Material	Quantity & Units	Location
----------	------------------	----------

None observed above household quantities		
--	--	--

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-20-135-021  
 House No. 909 Riverview Ave., Lansing, MI 48915  
 Date Inspected: 8/2/2015

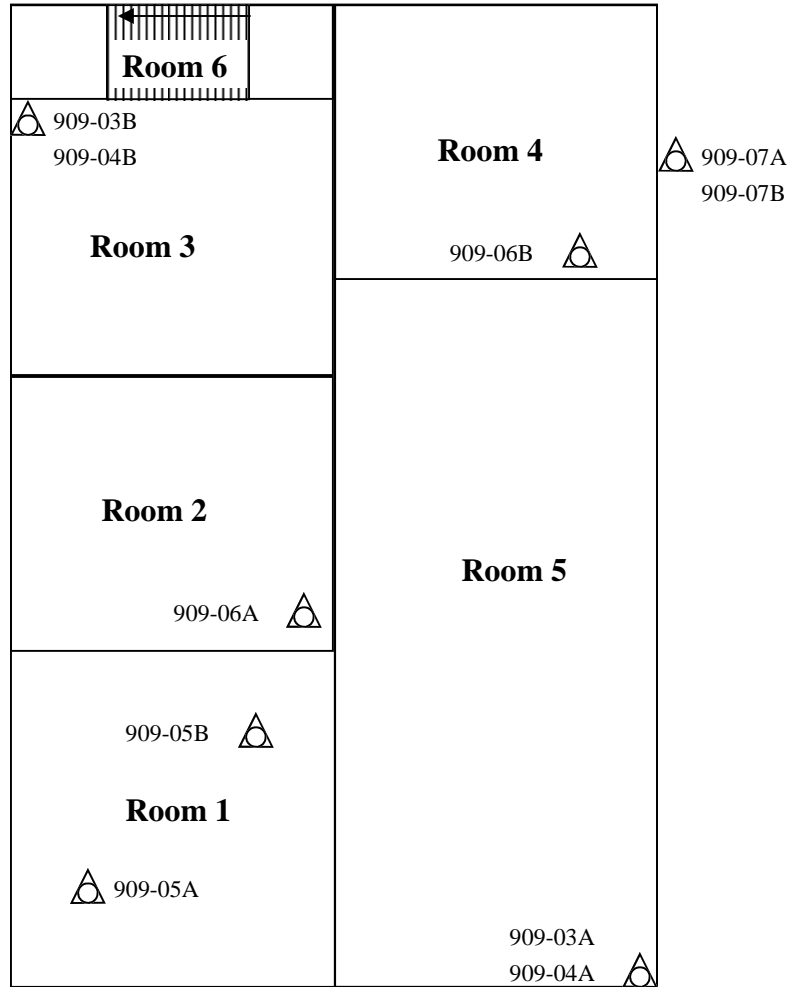
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**



<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
<b>1</b>	<b>F</b>	<b>Duct Insulation, Grey</b>	<b>Room 7</b>	<b>70 SF</b>	<b>Yes</b>
2	F	Hvac Sleeve, Black	Room 7	4 SF	No
3	F	Drywall, White	1st Floor	2000 SF	No
4	F	Mud, White	1st Floor	2000 SF	No
5	NF	Floor Tile, Stuck On, 12x12, Brown	Room 1	150 SF	No
6	NF	Linoleum and Paper Backing, White	Rooms 2 and 4	250 SF	No
7	NF	Roof Shingle, Black	Roof	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

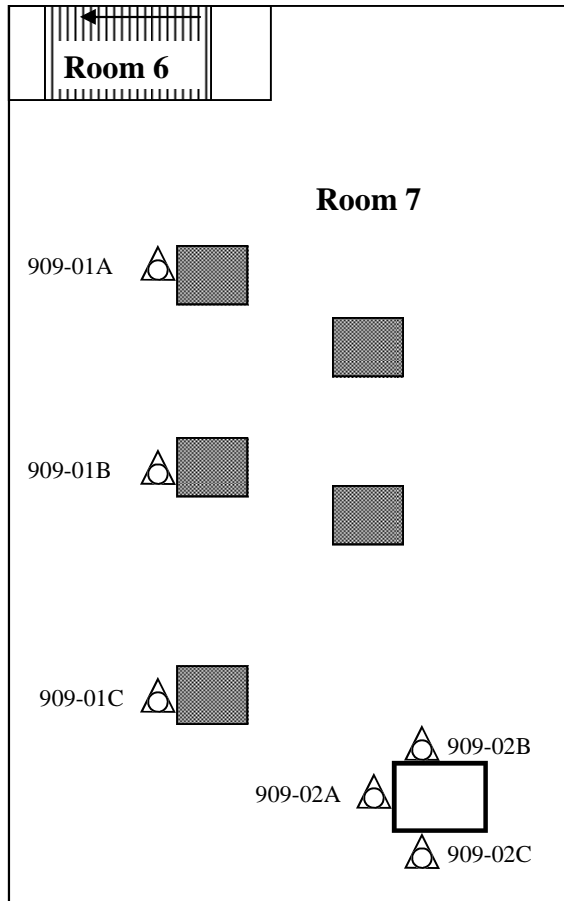




- HAZ      Hazardous materials
-       Sample Location
-       Tires

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



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: 33-01-01-20-135-021  
House No. 909 Riverview Ave., Lansing, MI 48915  
Date Inspected: 8/2/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-20-135-021
House No.	909 Riverview Ave., Lansing, MI 48915
Date Inspected:	8/2/2015



Duct Insulation, Grey, Room 7

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 : Vacant Residence  
909 Riverview Ave., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-20-135-021

ETC Job : 173532

Report Date : 8/4/2015

Login #	Sample ID	Work Requested	Completed
356477	1A	Asbestos Analysis	08/04/2015
356478	1B	Asbestos Analysis	08/04/2015
356479	1C	Asbestos Analysis	08/04/2015
356480	2A	Asbestos Analysis	08/04/2015
356481	2B	Asbestos Analysis	08/04/2015
356482	2C	Asbestos Analysis	08/04/2015
356483	3A	Asbestos Analysis	08/04/2015
356484	3B	Asbestos Analysis	08/04/2015
356485	4A	Asbestos Analysis	08/04/2015
356486	4B	Asbestos Analysis	08/04/2015
356487	5A	Asbestos Analysis	08/04/2015
356488	5B	Asbestos Analysis	08/04/2015
356489	6A	Asbestos Analysis	08/04/2015
356490	6B	Asbestos Analysis	08/04/2015
356491	7A	Asbestos Analysis	08/04/2015
356492	7B	Asbestos Analysis	08/04/2015

**Login #**

**Sample ID**

**Work Requested**

**Completed**

---

**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 :** Vacant Residence  
 909 Riverview Ave., Lansing, MI

**ETC Job :** 173532  
**Client Project :** 33-01-01-20-135-021  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356477 1A Rm 7 Analyst: Kelsey Siembor	Duct Insulation	Grey Fibrous Homogenous	60% Cellulose	15% Other	25% Chrysotile
356478 1B Rm 7 Analyst: Kelsey Siembor		Not Analyzed			
356479 1C Rm 7 Analyst: Kelsey Siembor		Not Analyzed			
356480 2A Rm 7 Analyst: Kelsey Siembor	HVAC Sleeve	Black Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356481 2B Rm 7 Analyst: Kelsey Siembor	HVAC Sleeve	Black Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356482 2C Rm 7 Analyst: Kelsey Siembor	HVAC Sleeve	Black Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356483 3A Rm 5 Analyst: Kelsey Siembor	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% 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 :** Vacant Residence  
 909 Riverview Ave., Lansing, MI

**ETC Job :** 173532  
**Client Project :** 33-01-01-20-135-021  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356484 3B Rm 3 Analyst: Kelsey Siembor	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356485 4A Rm 5 Analyst: Kelsey Siembor	Drywall Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356486 4B Rm 3 Analyst: Kelsey Siembor	Drywall Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356487 5A Rm 1 Analyst: Kelsey Siembor	12x12 Stuck On Floor Tile	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356488 5B Rm 1 Analyst: Kelsey Siembor	12x12 Stuck On Floor Tile	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356489 6A Rm 2 Layer-1 Analyst: Kelsey Siembor	Linoleum	White Fibrous Homogenous	5% Cellulose	95% Other	None Detected
356489 6A Rm 2 Layer-2 Analyst: Kelsey Siembor	Paper Backing	Brown Fibrous Homogenous	15% Cellulose	85% 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 :** Vacant Residence  
 909 Riverview Ave., Lansing, MI

**ETC Job :** 173532  
**Client Project :** 33-01-01-20-135-021  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/04/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356490 6B Rm 4 Layer-1 Analyst: Kelsey Siembor	Linoleum	White Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356490 6B Rm 4 Layer-2 Analyst: Kelsey Siembor	Paper Backing	Brown Fibrous Homogenous	10% Cellulose	90% Other	None Detected
356491 7A Ext Analyst: Kelsey Siembor	Roof Shingle	Black Non-Fibrous Homogenous	2% Cellulose 20% Fiberglass	78% Other	None Detected
356492 7B Ext Analyst: Kelsey Siembor	Roof Shingle	Black Non-Fibrous Homogenous	2% Cellulose 20% Fiberglass	78% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Kelsey Siembor

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

Bulk Asbestos  
 Chain of Custody

ETL Project #: **173532**

Client: <b>ETC</b>	Contact: <b>Tammy Wall</b>	Project Location/Name:
Address:	Phone:	<b>909 Riverview Ave</b>
	Fax:	
	E-mail: <b>results@2etc.com</b>	Client Project #:
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		Date Sampled: <b>8/2/15</b>

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

PLM Instructions (Check all that apply)

PLM EPA600/R-93/116, 1993 (Standard method)

Point Counting: 400 Points\*

PLM Non-Building Material (Dust, Wipe, Tape)

Stop at 1st Positive -  
 Clearly mark Homogeneous Group

Soil or Vermiculite Analysis \*

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	<b>1A-C</b>	<b>356477 - 356492</b>	
	<b>2A-C</b>		
	<b>3A-B</b>		
	<b>7A-B</b>		

Relinquished (Name/Organization):	Date	Time
<b>Tammy Wall</b>	<b>8/3/15</b>	
Received (Name/ETL):	<b>8/3/15</b>	am/pm
Stereoscopy Analysis (Name/ETL):	<b>8/4/15</b>	9:00 am/pm
Sample Login (Name/ETL):	<b>8/4/15</b>	9:00 am/pm
Analysis (Name/ETL):	<b>8/4/15</b>	9:00 am/pm
QA/QC Review (Name/ETL):	<b>8/4/15</b>	9:00 am/pm

Special Instructions:

Remarks:

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

Revision date 2/23/2015

Job #: 173532		Building: 909 RiverView			Date: 8-2-2015		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: Duct insulation	F	A	7	Rm 7	70 <sup>2</sup> A	115652
	Description: Grey		B	7			
			C	7			
2	Material: Hvac Duct PVC	F	A	7	Rm 7	4 <sup>2</sup> ft	115708
	Description: Black		B	7			
			C	7			
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

3 samples with the exception of patches less than 6 LF or 6 SF, then only 1 sample

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #: 173532		Building: 99 Riverview			Date: 8-2-15		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
3	Material: Drywall	F	A	5	1st Floor	2000 <sup>2</sup>	115840
	Description: White		B	3			
4	Material: Mud	F	A	5	1st Floor	2000 <sup>2</sup>	115840
	Description: White		B	3			
5	Material: Floor Tile Stacks	NF	A	1	Rm 1	150 <sup>2</sup>	115913
	Description: 12x17 Brown		B	1			
6	Material: Linoleum + paper backing	NF	A	2	Rm 2, 4	250 <sup>2</sup>	115924
	Description: White		B	4			
7	Material: Roof Shingles	NF	A	Exterior	Roof	700 <sup>2</sup>	113923
	Description: Black		B	11 11			
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						
	Material:						
	Description:						

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627



# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-28-452-151
House No:	3146 S. Cedar St., Lansing, MI 48910
Date Inspected:	08/04/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

## Building Information

No. Stories	1 + Attic	Garage	Attached
Square Footage	800 SF	Garage Square Footage	300 SF
Basement Square Footage	800 SF	Garage Siding	Aluminum Sided, Wood & Asphalt
Siding	Aluminum Sided, Wood & Asphalt	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: 33-01-01-28-452-151  
House No. 3146 S. Cedar St., Lansing, MI 48910  
Date Inspected: 08/04/2015

**TABLE 1**

### HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Smoke Detector	1	Room 8
Ballasts	1	Room 3
Ballasts	1	Room 9
Ballasts	1	Room 11
Ballasts	3	Room 10
Fluorescent light tubes, 4ft or less	1	Room 3
Fluorescent light tubes, 4ft or less	4	Room 10
Mercury Thermostat	1	Room 8

### TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-28-452-151  
 House No. 3146 S. Cedar St., Lansing, MI 48910  
 Date Inspected: 08/04/2015

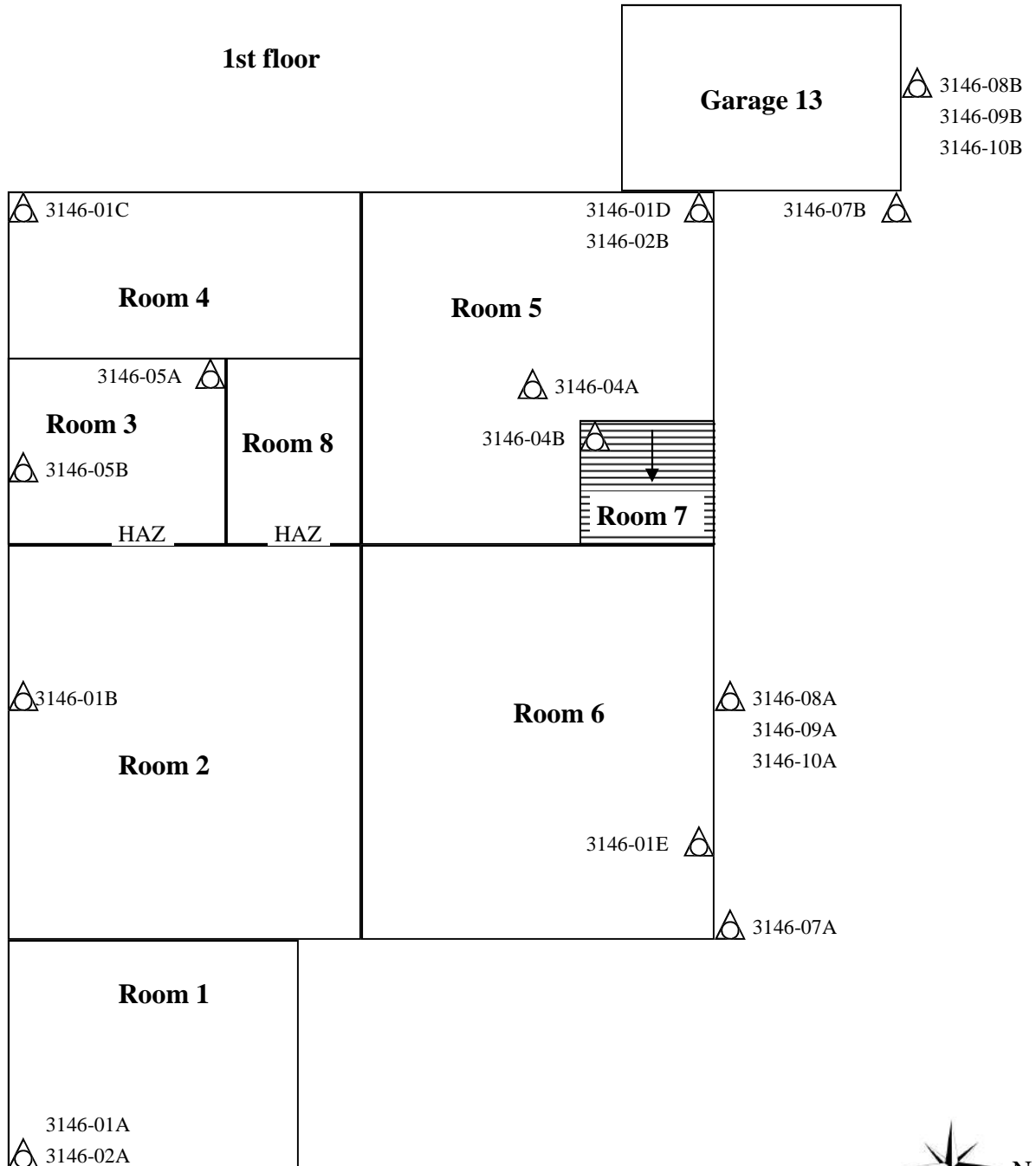
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**



<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	F	Plaster, Grey, Drywall Backing	1st Floor	4,800 SF	No
2	F	Drywall, White	1st Floor & Room 11	5,100 SF	No
3	NF	Floor Tile, Stuck On, 12x12, Grey	Room 11	100 SF	No
4	NF	Linoleum & Paper Back, White	Rooms 5 & 7	250 SF	No
5	NF	Linoleum & Paper Back, White Orange	Room 3	100 SF	No
<b>6</b>	<b>F</b>	<b>Vermiculite, Grey</b>	<b>1st Floor Ceiling</b>	<b>400 SF</b>	<b>Assumed</b>
7	NF	Roof Shingles, Grey	Roof of House & Garage	1,400 SF	No
8	F	Cardboard, Brown	House & Garage 2nd	3,800 SF	No
9	NF	Asphalt Siding, Grey	House & Garage 3rd	3,800 SF	No
10	F	House Wrap, Brown	House & Garage 5th	3,800 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:

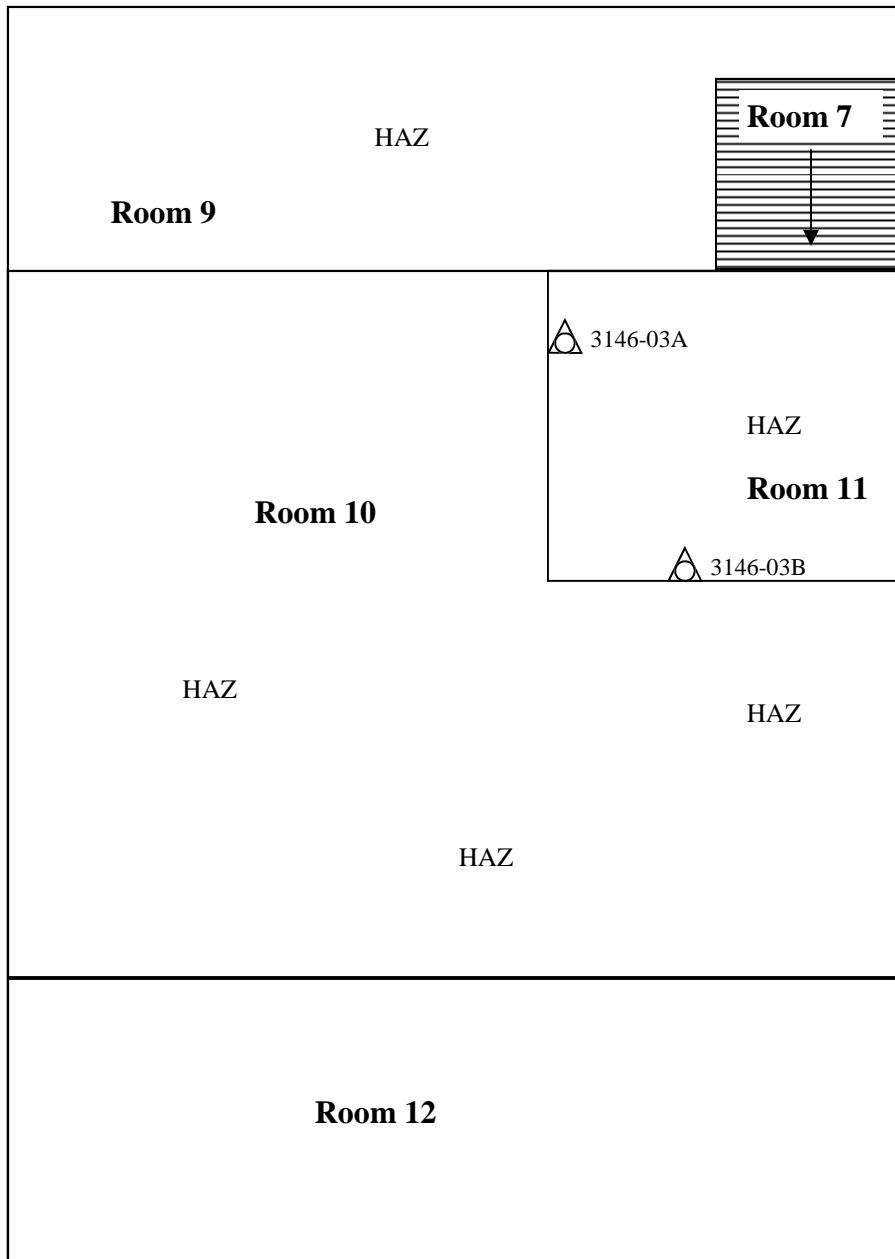
Site Drawing



- HAZ Hazardous materials
-  Sample Location
-  Tires

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**

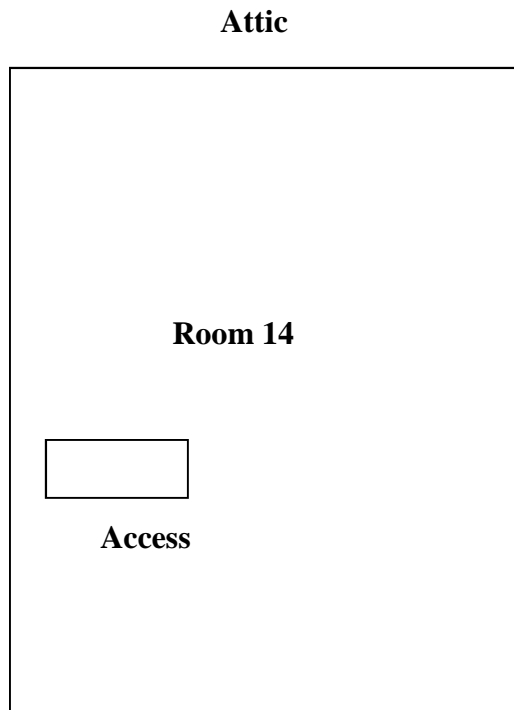


HAZ Hazardous materials

 Sample Location

 Tires

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.



HAZ Hazardous materials

 Sample Location

 Tires

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  
173533

Attachment:

Site Photographs



## Representative Pictures of House/Property

Parcel: 33-01-01-28-452-151  
House No. 3146 S. Cedar St., Lansing, MI 48910  
Date Inspected: 08/04/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-28-452-151
House No.	3146 S. Cedar St., Lansing, MI 48910
Date Inspected:	08/04/2015



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-28-452-151  
House No. 3146 S. Cedar St., Lansing, MI 48910  
Date Inspected: 08/04/2015



Smoke Detector,  
Room 8



Ballasts,  
Room 3



Ballasts,  
Room 9



Ballasts,  
Fluorescent Light Tubes, 4ft or less,  
Room 11

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-28-452-151
House No.	3146 S. Cedar St., Lansing, MI 48910
Date Inspected:	08/04/2015



Ballasts,  
Room 10



Fluorescent Light Tubes, 4ft or less,  
Room 3



Fluorescent Light Tubes, 4ft or less,  
Room 4



Mercury Thermostat,  
Room 8

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-28-452-151
House No.	3146 S. Cedar St., Lansing, MI 48910
Date Inspected:	08/04/2015



Vermiculite,  
1st Floor Ceiling

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 : Vacant Residence  
3146 S. Cedar St., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-28-452-151

ETC Job : 173533

Report Date : 8/7/2015

Login #	Sample ID	Work Requested	Completed
357472	1A	Asbestos Analysis	08/07/2015
357473	1B	Asbestos Analysis	08/07/2015
357474	1C	Asbestos Analysis	08/07/2015
357475	1D	Asbestos Analysis	08/07/2015
357476	1E	Asbestos Analysis	08/07/2015
357477	2A	Asbestos Analysis	08/07/2015
357478	2B	Asbestos Analysis	08/07/2015
357479	3A	Asbestos Analysis	08/07/2015
357480	3B	Asbestos Analysis	08/07/2015
357481	4A	Asbestos Analysis	08/07/2015
357482	4B	Asbestos Analysis	08/07/2015
357483	5A	Asbestos Analysis	08/07/2015
357484	5B	Asbestos Analysis	08/07/2015
357485	7A	Asbestos Analysis	08/07/2015
357486	7B	Asbestos Analysis	08/07/2015
357487	8A	Asbestos Analysis	08/07/2015
357488	8B	Asbestos Analysis	08/07/2015
357489	9A	Asbestos Analysis	08/07/2015
357490	9B	Asbestos Analysis	08/07/2015
357491	10A	Asbestos Analysis	08/07/2015

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
357492	10B	Asbestos Analysis	08/07/2015

---

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 :** Vacant Residence  
 3146 S. Cedar St., Lansing, MI

**ETC Job :** 173533  
**Client Project :** 33-01-01-28-452-151  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357472 1A 1 Layer-1 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357472 1A 1 Layer-2 Analyst: Shea Burgeson	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357473 1B 2 Layer-1 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357473 1B 2 Layer-2 Analyst: Shea Burgeson	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357474 1C 4 Layer-1 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357474 1C 4 Layer-2 Analyst: Shea Burgeson	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
357475 1D 5 Layer-1 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357475 1D 5 Layer-2 Analyst: Shea Burgeson	Skim Coat	White Non-Fibrous Homogenous		100% 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 :** Vacant Residence  
 3146 S. Cedar St., Lansing, MI

**ETC Job :** 173533  
**Client Project :** 33-01-01-28-452-151  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357476 1E 6 Layer-1 Analyst: Shea Burgeson	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
357476 1E 6 Layer-2 Analyst: Shea Burgeson	Skim Coat	White Non-Fibrous Homogenous		100% Other	None Detected
357477 2A 1 Analyst: Shea Burgeson	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
357478 2B 5 Analyst: Shea Burgeson	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
357479 3A 11 Layer-1 Analyst: Shea Burgeson	12x12 Stuck On Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357479 3A 11 Layer-2 Analyst: Shea Burgeson	Mastic	Gold Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357480 3B 11 Layer-1 Analyst: Shea Burgeson	12x12 Stuck On Floor Tile	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357480 3B 11 Layer-2 Analyst: Shea Burgeson	Mastic	Gold 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 :** Vacant Residence  
 3146 S. Cedar St., Lansing, MI

**ETC Job :** 173533  
**Client Project :** 33-01-01-28-452-151  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357481 4A 5 Analyst: Shea Burgeson	Linoleum and Paper Backing	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357482 4B 7 Analyst: Shea Burgeson	Linoleum and Paper Backing	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
357483 5A 3 Analyst: Shea Burgeson	Linoleum and Paper Backing	White/Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
357484 5B 3 Analyst: Shea Burgeson	Linoleum and Paper Backing	White/Grey Fibrous Homogenous	90% Cellulose	10% Other	None Detected
357485 7A Exterior Analyst: Shea Burgeson	Roof Shingle	Grey Non-Fibrous Homogenous	1% Cellulose 5% Fiberglass	94% Other	None Detected
357486 7B Exterior Analyst: Shea Burgeson	Roof Shingle	Grey Non-Fibrous Homogenous	1% Cellulose 4% Fiberglass	95% Other	None Detected
357487 8A Exterior Analyst: Shea Burgeson	Cardboard	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 3146 S. Cedar St., Lansing, MI

**ETC Job :** 173533  
**Client Project :** 33-01-01-28-452-151  
**Date Collected :** 08/04/2015  
**Date Received :** 08/07/2015  
**Date Analyzed :** 08/07/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
357488 8B Exterior Analyst: Shea Burgeson	Cardboard	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
357489 9A Exterior Analyst: Shea Burgeson	Asphalt Siding	Grey Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
357490 9B Exterior Analyst: Shea Burgeson	Asphalt Siding	Grey Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
357491 10A Exterior Analyst: Shea Burgeson	House Wrap	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
357492 10B Exterior Analyst: Shea Burgeson	House Wrap	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Shea Burgeson

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

Bulk Asbestos  
 Chain of Custody

ETL Project #: 173533

Client: ETC  
 Contact: Tammy Wall  
 Project Location/Name: 3146 S. Cedar

Address:  
 Phone:  
 Fax:  
 E-mail: results@2etl.com  
 Client Project #:  
 Date Sampled: 8/4/15

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)

PLM EPA600/R-93/116, 1993 (Standard method)  
 Point Counting: 400 Points\*  
 PLM Non-Building Material (Dust, Wipe, Tape)

Stop at 1st Positive -  
 Clearly mark Homogenous Group  
 Soil or Vermiculite Analysis \*

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
357492	1A-E		
	2A-B		
357492	10A-B		

Relinquished (Name/Organization):	Josie Kozicki	Date:	8/7/15	Time:	
Received (Name/ETL):	Jessica M. May	Date:	8/7/15	Time:	11:41 am
Stereoscopy Analysis (Name/ETL):	SB	Date:	8/7/15	Time:	am/pm
Sample Login (Name/ETL):		Date:		Time:	am/pm
Analysis (Name/ETL):	SB	Date:	8/7/15	Time:	am/pm
QA/QC Review (Name/ETL):		Date:		Time:	am/pm

Special Instructions:

Remarks:

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 2/23/2015

Job #:	Building:			Date:			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location <small>Need only be room</small>	Material Located throughout bldg <small>(Please List all Rooms)</small>	Quantity	Picture #
1	Material: <i>Plaster</i>	F	A	1 357472	1st Floor	4800sq	144044
	Grey Drywall backing		B	2 357473			
			C	4 357474			
			D	3 357475			
			E	6 357476			
Material:							
Material:							

1000 SF = 3 samples

1000 - 5000 = 5 samples

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #: 173533		Building: 3146 S. Cedar			Date: 2-4-11		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location (Head only to room)	Materials located throughout this (Please list all rooms)	Quantity	Picture #
2	Material: Drywall	F	A	1 357477	1st Floor + Rm 11	5100 <sup>sq</sup> ft	144644
	Description: white		B	5 357478			
3	Material: Floor Tile Jackson	NF	A	11 357479	Rm 11	100 <sup>sq</sup> ft	144128
	Description: 12x12 Grey		B	357480			
4	Material: Linoleum + paper backing	NF	A	5 357481	Rm 517	250 <sup>sq</sup> ft	144147
	Description: white		B	7 357482			
5	Material: Linoleum + paper backing	NF	A	3 357483	Rm 3	100 <sup>sq</sup> ft	144206
	Description: White Orange		B	3 357484			
6	Material: Vermiculite	F		Assumed	1st Floor ceiling	400 <sup>sq</sup> ft	144215
7	Material: Roof Shingle	NF	A	Exterior 357485	Roof of House + Garage	1400 <sup>sq</sup> ft	134805
	Description: Grey		B	11 357486			
8	Material: Card board	F	A	Interior 357487	House + Garage 2nd	3800 <sup>sq</sup> ft	144237
	Description: Brown		B	11 357488			
9	Material: Asphalt Siding	NF	A	Exterior 357489	House + Garage 3rd	3800 <sup>sq</sup> ft	144237
	Description: Grey		B	11 357490			
10	Material: House wrap	F	A	Exterior 357491	House + Garage 5th	3800 <sup>sq</sup> ft	144237
	Description: Brown		B	11 357492			
	Material:						
	Description:						

2 samples

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**.

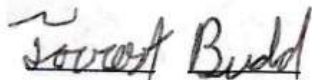
### **Laboratory Analysis / Results**

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-31-202-101
House No:	2919 W. Holmes Rd., Lansing, MI 48911
Date Inspected:	7/30/2015
Inspected By:	Andre Richardson
Inspectors State Card #	A-45125

## Building Information

No. Stories	1 + Attic	Garage	Detached
Square Footage	2,000 SF	Garage Square Footage	1,000 SF
Basement Square Footage	No Basement	Garage Siding	Vinyl
Siding	Vinyl	Garage Color	Yellow
Color	Yellow	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas	None		



## Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-202-101  
House No. 2919 W. Holmes Rd., Lansing, MI 48911  
Date Inspected: 7/30/2015

**TABLE 1**

### HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Mercury Thermostat	1	Living Room 1
Television	2	Living Room 1
5 oz. Paint Cans and Lacquer Oil	6	Bared Garage 9
15 oz. Paint Thinner	7	Garage 9

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-202-101  
 House No. 2919 W. Holmes Rd., Lansing, MI 48911  
 Date Inspected: 7/30/2015

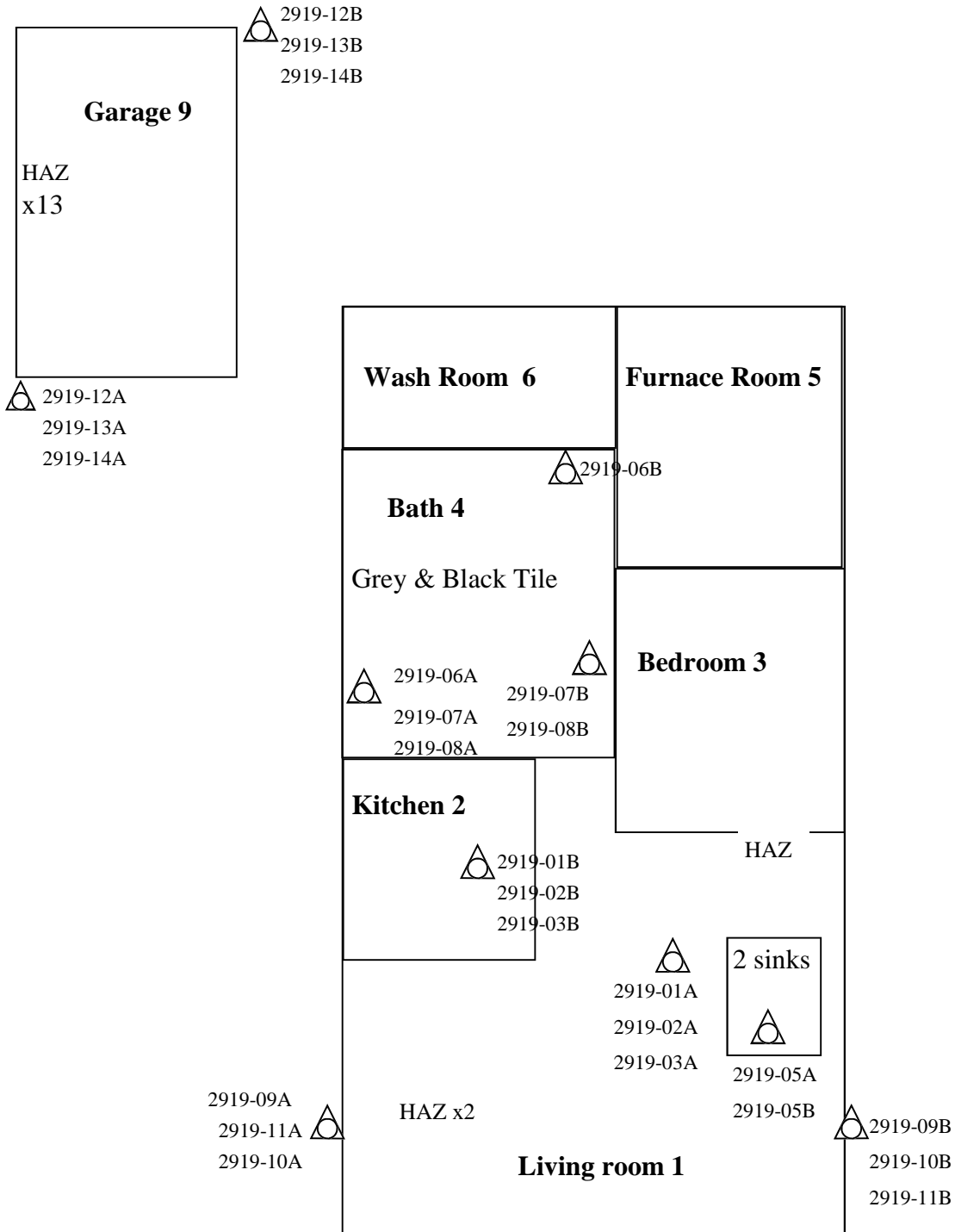
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**



Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Drywall, White	Rooms 1-6	5000 SF	No
2	F	Mud, White	Rooms 1-6	5000 SF	No
3	F	Tape, White	Rooms 1-6	5000 SF	No
4	F	Blown in Insulation, Brown	Attic 7	600 SF	No
5	F	Sink Undercoating, White	Room 1	20 SF	No
6	F	Ceiling Tiles, 12x24 White, Drop Ceiling	Room 4	500 SF	No
<b>7</b>	<b>NF</b>	<b>Floor Tile, 12x12 Grey and Black Checkered</b>	<b>Room 4</b>	<b>500 SF</b>	<b>Yes</b>
8	NF	Mastic, Glue, Black, Under Material 7	Room 4	500 SF	No
9	NF	Roof Shingles, Green and White	Home Roof 8	2000 SF	No
10	NF	Roof Shingles, black under mat 9	Home Roof 8	2000 SF	No
11	F	Roof Felt paper, black, under 10	Home Roof 8	2000 SF	No
12	NF	Roof Shingles, Green 8/ White	10 Garage Roof	1000 SF	No
13	NF	Roof Shingles, Black, Under 12	10 Garage Roof	1000 SF	No
14	F	Roof Felt, Paper Black, Under 13	10 Garage Roof	1000 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.

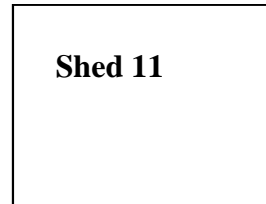
Attachment:

Site Drawing

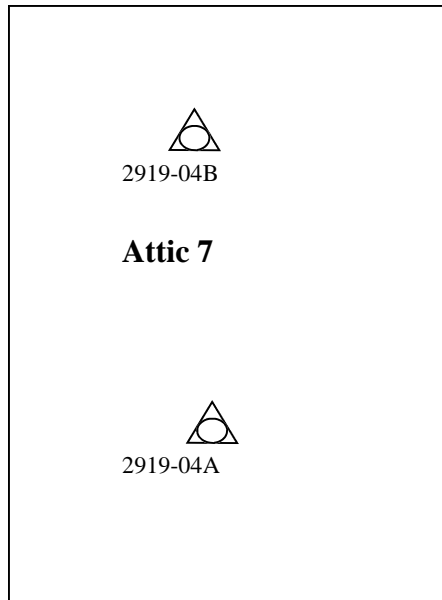




- HAZ Hazardous materials
-  Sample Location
-  Tires

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.



**Exterior 12**



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: 33-01-01-31-202-101  
House No. 2919 W. Holmes Rd., Lansing, MI 48911  
Date Inspected: 7/30/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-31-202-101
House No.	2919 W. Holmes Rd., Lansing, MI 48911
Date Inspected:	7/30/2015



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-31-202-101  
House No. 2919 W. Holmes Rd., Lansing, MI 48911  
Date Inspected: 7/30/2015



Mercury Thermostat– Living Room 1



2 TV's– Living Room 1



5 oz. Paint Cans and Lacquer Oil– Based Garage 9



15 oz. Paint Thinner– Garage 9

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-31-202-101
House No.	2919 W. Holmes Rd., Lansing, MI 48911
Date Inspected:	7/30/2015



Floor Tile, 12x12 Grey and Black Checkered, Room 4

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 : Vacant Residence  
2919 W. Holmes Rd., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-31-202-101

ETC Job : 173534

Report Date : 8/3/2015

Login #	Sample ID	Work Requested	Completed
356212	1A	Asbestos Analysis	08/03/2015
356213	1B	Asbestos Analysis	08/03/2015
356214	2A	Asbestos Analysis	08/03/2015
356215	2B	Asbestos Analysis	08/03/2015
356216	3A	Asbestos Analysis	08/03/2015
356217	3B	Asbestos Analysis	08/03/2015
356218	4A	Asbestos Analysis	08/03/2015
356219	4B	Asbestos Analysis	08/03/2015
356220	5A	Asbestos Analysis	08/03/2015
356221	5B	Asbestos Analysis	08/03/2015
356222	6A	Asbestos Analysis	08/03/2015
356223	6B	Asbestos Analysis	08/03/2015
356224	7A	Asbestos Analysis	08/03/2015
356225	7B	Asbestos Analysis	08/03/2015
356226	8A	Asbestos Analysis	08/03/2015
356227	8B	Asbestos Analysis	08/03/2015
356228	9A	Asbestos Analysis	08/03/2015
356229	9B	Asbestos Analysis	08/03/2015
356230	10A	Asbestos Analysis	08/03/2015
356231	10B	Asbestos Analysis	08/03/2015

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.

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Login #	Sample ID	Work Requested	Completed
356232	11A	Asbestos Analysis	08/03/2015
356233	11B	Asbestos Analysis	08/03/2015
356234	12A	Asbestos Analysis	08/03/2015
356235	12B	Asbestos Analysis	08/03/2015
356236	13A	Asbestos Analysis	08/03/2015
356237	13B	Asbestos Analysis	08/03/2015
356238	14A	Asbestos Analysis	08/03/2015
356239	14B	Asbestos Analysis	08/03/2015

---

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 :** Vacant Residence  
2919 W. Holmes Rd., Lansing, MI

**ETC Job :** 173534  
**Client Project :** 33-01-01-31-202-101  
**Date Collected :** 07/30/2015  
**Date Received :** 07/31/2015  
**Date Analyzed :** 08/03/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356212 1A 1 Analyst: Kaylin Carey	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356213 1B 2 Analyst: Kaylin Carey	Drywall	White Non-Fibrous Homogenous		100% Other	None Detected
356214 2A 1 Analyst: Kaylin Carey	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356215 2B 2 Analyst: Kaylin Carey	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356216 3A 1 Analyst: Kaylin Carey	Tape	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356217 3B 2 Analyst: Kaylin Carey	Tape	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356218 4A 7 Analyst: Kaylin Carey	Blown-In Insulation	Brown Fibrous Homogenous	60% Cellulose	40% Other	None Detected



### Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
2919 W. Holmes Rd., Lansing, MI

**ETC Job :** 173534  
**Client Project :** 33-01-01-31-202-101  
**Date Collected :** 07/30/2015  
**Date Received :** 07/31/2015  
**Date Analyzed :** 08/03/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356219 4B 7 Analyst: Kaylin Carey	Blown-In Insulation	Brown Fibrous Homogenous	50% Cellulose	50% Other	None Detected
356220 5A 1 Analyst: Kaylin Carey	Sink Undercoating	White Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
356221 5B 1 Analyst: Kaylin Carey	Sink Undercoating	White Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
356222 6A 4 Analyst: Kaylin Carey	12x24 Drop Ceiling Tile	Brown Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
356223 6B 4 Analyst: Kaylin Carey	12x24 Drop Ceiling Tile	Brown Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
356224 7A 4 Analyst: Kaylin Carey	12x12 Floor Tile	Grey/Black Non-Fibrous Homogenous		97% Other	3% Chrysotile
356225 7B 4 Analyst: Kaylin Carey		Not Analyzed			

### Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
2919 W. Holmes Rd., Lansing, MI

**ETC Job :** 173534  
**Client Project :** 33-01-01-31-202-101  
**Date Collected :** 07/30/2015  
**Date Received :** 07/31/2015  
**Date Analyzed :** 08/03/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356226 8A 4 Analyst: Kaylin Carey	Mastic (under may 07)	Black Non-Fibrous Homogenous		100% Other	None Detected
356227 8B 4 Analyst: Kaylin Carey	Mastic (under may 07)	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356228 9A 8 Home Roof Analyst: Kaylin Carey	Roof Shingle	Green/White Non-Fibrous Homogenous	2% Fiberglass	98% Other	None Detected
356229 9B 8 Home Roof Analyst: Kaylin Carey	Roof Shingle	Green/White Non-Fibrous Homogenous	2% Fiberglass	98% Other	None Detected
356230 10A 8 Home Roof Analyst: Kaylin Carey	Roof Shingle (under mat 09)	Black Non-Fibrous Homogenous	1% Cellulose 2% Fiberglass	97% Other	None Detected
356231 10B 8 Home Roof Analyst: Kaylin Carey	Roof Shingle (under mat 09)	Black Non-Fibrous Homogenous	1% Cellulose 2% Fiberglass	97% Other	None Detected
356232 11A 8 Home Roof Analyst: Kaylin Carey	Roof Felt Paper (under mat 10)	Black Fibrous Homogenous	1% Fiberglass	99% Other	None Detected

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 2919 W. Holmes Rd., Lansing, MI

**ETC Job :** 173534  
**Client Project :** 33-01-01-31-202-101  
**Date Collected :** 07/30/2015  
**Date Received :** 07/31/2015  
**Date Analyzed :** 08/03/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356233 11B 8 Home Roof Analyst: Kaylin Carey	Roof Felt Paper (under mat 10)	Black Fibrous Homogenous	8% Cellulose 1% Fiberglass	91% Other	None Detected
356234 12A 10 Garage Roof Analyst: Kaylin Carey	Roof Shingle	Green/White Non-Fibrous Homogenous	8% Cellulose 1% Fiberglass	91% Other	None Detected
356235 12B 10 Garage Roof Analyst: Kaylin Carey	Roof Shingle	Green/White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356236 13A 10 Garage Roof Analyst: Kaylin Carey	Roof Shingle (under mat 12)	Black Non-Fibrous Homogenous	1% Cellulose 1% Fiberglass	98% Other	None Detected
356237 13B 10 Garage Roof Analyst: Kaylin Carey	Roof Shingle (under mat 12)	Black Non-Fibrous Homogenous	1% Fiberglass	99% Other	None Detected
356238 14A 10 Garage Roof Analyst: Kaylin Carey	Roof Felt Paper (under mat 13)	Black Fibrous Homogenous	60% Cellulose	40% Other	None Detected
356239 14B 10 Garage Roof Analyst: Kaylin Carey	Roof Felt Paper (under mat 13)	Black Fibrous Homogenous	60% Cellulose	40% 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 :** Vacant Residence  
2919 W. Holmes Rd., Lansing, MI

**ETC Job :** 173534  
**Client Project :** 33-01-01-31-202-101  
**Date Collected :** 07/30/2015  
**Date Received :** 07/31/2015  
**Date Analyzed :** 08/03/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
--------	-------------	------------	-----------	---------------	------------



Lab Supervisor/Other Signatory



Analyst: Kaylin Carey

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.



**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials** 2 of 3

Revision date 5/7/2011

Job #: 173534		Building: 2919 W. Holmes Rd Lansing MI			Date: 7-30-11				
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: Drywall	F	A	1	L	356212	1-6	5,000	1762
	Description: white		B	2					
2	Material: Mud	F	A	L	356214	↓	↓	↓	↓
	Description: white		B						
3	Material: Tape	F	A	L	356216	↓	↓	↓	↓
	Description: white		B						
4	Material: Brown Insulation	F	A	7	↓	356218	7 door	600	1765
	Description: Brown		B	356219					
5	Material: Sink undercoating	F	A	1	↓	356220	1	20	1768
	Description: white		B	356221					
6	Material: Ceiling tile 12x24	F	A	4	↓	356222	4	500	1764
	Description: white drop ceiling		B	356223					
7	Material: Floor tile 12x12	NF	A	4	↓	356224	4	500	1763
	Description: Green & Black checkerboard		B	356225					
8	Material: Masonry, Green Black	NF	A	↓	356226	↓	↓	↓	↓
	Description: under 7		B						
9	Material: Roof shingles Green	NF	A	8 Home Roof	↓	356228	8 Home Roof	2,000	1759
	Description: white		B	356229					
10	Material: Roof shingles Black	NF	A	↓	356230	↓	↓	↓	↓
	Description: under mat 9		B						

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

3 of 3

Revision date 5/7/2015

Job #: 173534		Building: 2919 Wilholmes RD Leaning ME			Date: 7-30-15		
Meterial no.	Material Description	Friable (F) / Non-Friable (NF)	Sampla Letter	Sampla Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
11	Material: Roof felt Paper Black	F	A	8 Home Roof 356232	8 Home Roof	2,000 sq ft	1759
	Description: under 10		B				
12	Material: Roof shingles Green & white	NF	A	10 Garage Roof 356233	84 Garage Roof	4,000 sq ft	↓
	Description: under 12		B				
13	Material: Roof shingles Black	NF	A	356235	↓	↓	↓
	Description: under 12		B				
14	Material: Roof felt Paper Black	F	A	356237	↓	↓	↓
	Description: under 13		B				
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						



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: \_\_\_\_\_

Andre Richardson, Michigan Certified Asbestos Inspector (s)  
Michigan Accreditation Number (s) A-45125

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-31-402-068
House No:	4318 Ingham St., Lansing, MI 48911
Date Inspected:	8/2/2015
Inspected By:	Forrest Budd
Inspectors State Card #	A-37627

## Building Information

No. Stories	1 + Attic	Garage	Detached
Square Footage	900 SF	Garage Square Footage	300 SF
Basement Square Footage	500 SF	Garage Siding	Wood
Siding	Aluminum & Wood	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	Yes	Gas (Gone)	Disconnected
Inaccessible areas	All Vinyl Windows		



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-402-068  
House No. 4318 Ingham St., Lansing, MI 48911  
Date Inspected: 8/2/2015

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Ballast	1	Room 8
Halogen Bulb 4<	2	Room 8

## TIRE(s) REPORT

**Material**                      **Quantity & Units**                      **Location**

None observed above household quantities

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-402-068  
 House No. 4318 Ingham St., Lansing, MI 48911  
 Date Inspected: 8/2/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

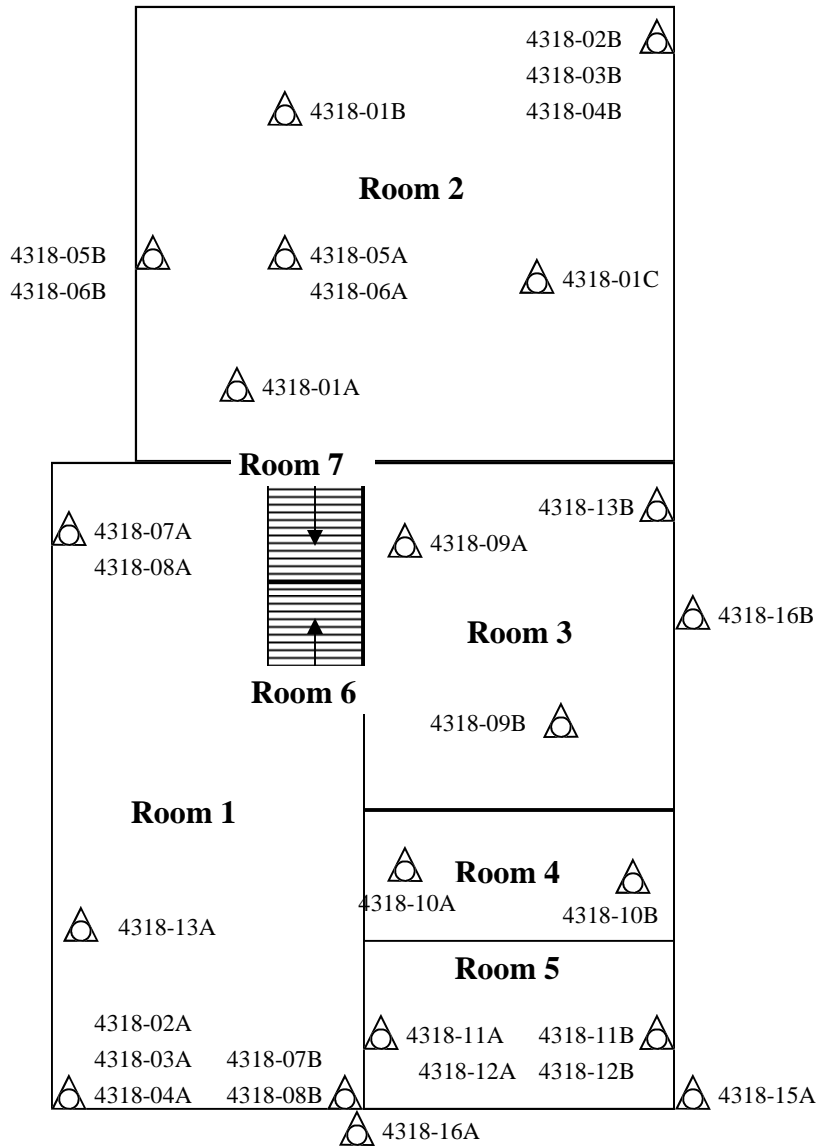
<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	F	Textured Ceiling, White	Room 2	300 SF	No
2	F	Drywall, White	1st Floor	3600 SF	No
3	F	Mud, White	1st Floor	3600 SF	No
4	F	Tape, White	1st Floor	3600 SF	No
5	NF	Linoleum and Paper Backing, Grey	Room 2, 1st	60 SF	No
6	NF	Vapor Barrier, Black	Room 2, 2nd	60 SF	No
7	NF	Floor Tile, Stuck On, 12x12 Wood	Room 1, 1st	300 SF	No
8	NF	Linoleum and Paper Backing, White	Room 1, 2nd	300 SF	No
9	NF	Floor Tile, Stuck On, 12x12 Grey	Room 3	150 SF	No
10	NF	Linoleum and Paper Backing, White	Room 4	100 SF	No
11	NF	Floor Tile, Stuck On, 12x12 Grey	Room 5, 1st	150 SF	No
12	NF	Floor Tile, Stuck On, 12x12 White	Room 5, 2nd	150 SF	No
13	F	Blown-In, Grey	1st Floor Exterior and Walls	2700 SF	No
<b>14</b>	<b>F</b>	<b>Vermiculite, Grey</b>	<b>1st Floor Ceiling</b>	<b>400 CF</b>	<b>Assumed</b>
15	NF	Roof Shingles, Grey	Roof of House and Garage	1600 SF	No
16	F	Tar Paper, Black	Under Wood Siding	2800 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**

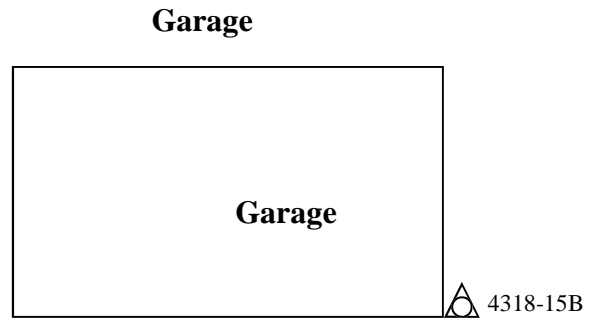
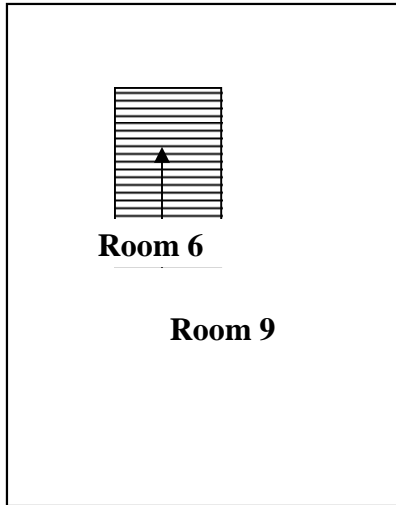


- HAZ Hazardous materials
-  Sample Location
-  Tires

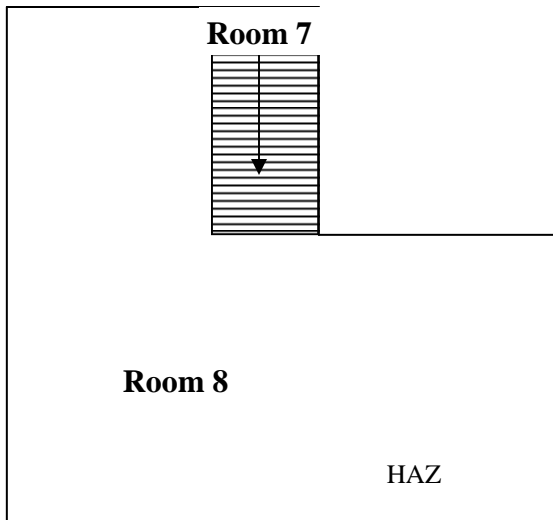
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.





**Attic**



**Basement**



- HAZ Hazardous materials
-  Sample Location
-  Tires

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: 33-01-01-31-402-068  
House No. 4318 Ingham St., Lansing, MI 48911  
Date Inspected: 8/2/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-31-402-068
House No.	4318 Ingham St., Lansing, MI 48911
Date Inspected:	8/2/2015



Garage

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-31-402-068
House No.	4318 Ingham St., Lansing, MI 48911
Date Inspected:	8/2/2015



Ballast, Room 8



Halogen Bulb 4<, Room 8

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-31-402-068
House No.	4318 Ingham St., Lansing, MI 48911
Date Inspected:	8/2/2015



Vermiculite,  
1st Floor Ceiling

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 : Vacant Residence  
4318 Ingham St., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-31-402-068

ETC Job : 173535

Report Date : 8/6/2015

Login #	Sample ID	Work Requested	Completed
356726	1A	Asbestos Analysis	08/06/2015
356727	1B	Asbestos Analysis	08/06/2015
356728	1C	Asbestos Analysis	08/06/2015
356729	2A	Asbestos Analysis	08/06/2015
356730	2B	Asbestos Analysis	08/06/2015
356731	3A	Asbestos Analysis	08/06/2015
356732	3B	Asbestos Analysis	08/06/2015
356733	4A	Asbestos Analysis	08/06/2015
356734	4B	Asbestos Analysis	08/06/2015
356735	5A	Asbestos Analysis	08/06/2015
356736	5B	Asbestos Analysis	08/06/2015
356737	6A	Asbestos Analysis	08/06/2015
356738	6B	Asbestos Analysis	08/06/2015
356739	7A	Asbestos Analysis	08/06/2015
356740	7B	Asbestos Analysis	08/06/2015
356741	8A	Asbestos Analysis	08/06/2015
356742	8B	Asbestos Analysis	08/06/2015
356743	9A	Asbestos Analysis	08/06/2015
356744	9B	Asbestos Analysis	08/06/2015
356745	10A	Asbestos Analysis	08/06/2015

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Login #	Sample ID	Work Requested	Completed
356746	10B	Asbestos Analysis	08/06/2015
356747	11A	Asbestos Analysis	08/06/2015
356748	11B	Asbestos Analysis	08/06/2015
356749	12A	Asbestos Analysis	08/06/2015
356750	12B	Asbestos Analysis	08/06/2015
356751	13A	Asbestos Analysis	08/06/2015
356752	13B	Asbestos Analysis	08/06/2015
356753	15A	Asbestos Analysis	08/06/2015
356754	15B	Asbestos Analysis	08/06/2015
356755	16A	Asbestos Analysis	08/06/2015
356756	16B	Asbestos Analysis	08/06/2015

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Reviewed by:



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Quality Assurance Coordinator

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 4318 Ingham St., Lansing, MI

**ETC Job :** 173535  
**Client Project :** 33-01-01-31-402-068  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356726 1A Rm 2 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356727 1B Rm 2 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356728 1C Rm 2 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous		100% Other	None Detected
356729 2A Rm 1 Analyst: Shea Burgeson	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356730 2B Rm 2 Analyst: Shea Burgeson	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
356731 3A Rm 1 Analyst: Shea Burgeson	Drywall Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356732 3B Rm 2 Analyst: Shea Burgeson	Drywall Mud	White 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 :** Vacant Residence  
 4318 Ingham St., Lansing, MI

**ETC Job :** 173535  
**Client Project :** 33-01-01-31-402-068  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356733 4A Rm 1 Analyst: Shea Burgeson	Drywall Tape	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356734 4B Rm 2 Analyst: Shea Burgeson	Drywall Tape	White Fibrous Homogenous	85% Cellulose	15% Other	None Detected
356735 5A Rm 2 Layer-1 Analyst: Sarah Poirier	Linoleum and Paper Backing	Grey Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356735 5A Rm 2 Layer-2 Analyst: Sarah Poirier	Mastic	Brown Non-Fibrous Homogenous		100% Other	None Detected
356736 5B Rm 2 Layer-1 Analyst: Sarah Poirier	Linoleum and Paper Backing	Grey Fibrous Homogenous	40% Cellulose	60% Other	None Detected
356736 5B Rm 2 Layer-2 Analyst: Sarah Poirier	Mastic	Brown Non-Fibrous Homogenous		100% Other	None Detected
356737 6A Rm 2 Analyst: Sarah Poirier	Vapor Barrier	Black Fibrous Homogenous	25% Cellulose	75% Other	None Detected
356738 6B Rm 2 Analyst: Sarah Poirier	Vapor Barrier	Black Fibrous Homogenous	30% Cellulose	70% 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 :** Vacant Residence  
 4318 Ingham St., Lansing, MI

**ETC Job :** 173535  
**Client Project :** 33-01-01-31-402-068  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356739 7A Rm 1 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	Wood Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356740 7B Rm 1 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	Wood Non-Fibrous Homogenous		100% Other	None Detected
356741 8A Rm 1 Analyst: Sarah Poirier	Linoleum and Paper Backing	White Fibrous Homogenous	40% Cellulose 3% Fiberglass	57% Other	None Detected
356742 8B Rm 1 Analyst: Sarah Poirier	Linoleum and Paper Backing	White Fibrous Homogenous	40% Cellulose 3% Fiberglass	57% Other	None Detected
356743 9A Rm 3 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
356744 9B Rm 3 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
356745 10A Rm 4 Analyst: Sarah Poirier	Linoleum and Paper Backing	White Fibrous Homogenous	30% Cellulose 2% Fiberglass	68% Other	None Detected

**Polarized Light Microscopy Asbestos Analysis Report**

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 4318 Ingham St., Lansing, MI

**ETC Job :** 173535  
**Client Project :** 33-01-01-31-402-068  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356746 10B Rm 4 Analyst: Sarah Poirier	Linoleum and Paper Backing	White Fibrous Homogenous	30% Cellulose 2% Fiberglass	68% Other	None Detected
356747 11A Rm 5 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
356748 11B Rm 5 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
356749 12A Rm 5 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
12A and 12 B are actually linoleum					
356750 12B Rm 5 Analyst: Sarah Poirier	12x12 Stuck On Floor Tile	White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
356751 13A Rm 1 Analyst: Sarah Poirier	Blown In Insulation	Grey Fibrous Homogenous	100% Cellulose		None Detected
356752 13B Rm 3 Analyst: Sarah Poirier	Blown In Insulation	Grey 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 :** Vacant Residence  
 4318 Ingham St., Lansing, MI

**ETC Job :** 173535  
**Client Project :** 33-01-01-31-402-068  
**Date Collected :** 08/02/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/06/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356753 15A Ext Analyst: Sarah Poirier	Roof Shingle	Grey Fibrous Homogenous	25% Cellulose	75% Other	None Detected
356754 15B Ext Analyst: Sarah Poirier	Roof Shingle	Grey Fibrous Homogenous	25% Cellulose	75% Other	None Detected
356755 16A Ext Analyst: Sarah Poirier	Tar Paper	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
356756 16B Ext Analyst: Sarah Poirier	Tar Paper	Black Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Sarah Poirier



Analyst: Shea Burgeson

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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# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 2/23/2015

Job #: 173535		Building: 4316 Ingham			Date: 8-2-2015		
Material no.	Material Description:	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location <small>Rest only the room</small>	Material Located throughout bldg <small>(Please List all Rooms)</small>	Quantity	Picture #
1	Material: Textured Ceiling	F	A	2 356726	RM 2	3000 <sup>2</sup>	142255
	White		B	2 356727			
			C	2 356728			
	Material:						
	Material:						

≥1000 SF = 3 samples

1000 - <5000 = 5 samples

≥5000 = 7 samples



**Asbestos Material Sampling Summary Sheet**  
Miscellaneous materials

Revision date 2/23/2015

Job #: 173535		Building: 4318 Ingham			Date: 2-2-15		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be room	Material Located throughout bldg. (Please list all rooms)	Quantity	Picture #
2	Material: Drywall	F	A	1	1st Floor	3600 <sup>2</sup> ft	142303
	Description: White		B	2			
3	Material: Mud	F	A	1	1st Floor	3600 <sup>2</sup> ft	142303
	Description: White		B	2			
4	Material: Gypsum	F	A	1	1st Floor	3600 <sup>2</sup> ft	142303
	Description: White		B	2			
5	Material: Linoleum + paper backing	NF	A	2	Rm 2	600 <sup>2</sup> ft	142316
	Description: Grey		B	2			
6	Material: Vapor barrier	NF	A	2	Rm 2	600 <sup>2</sup> ft	142316
	Description: Black		B	2			
7	Material: Floor Tile Stuck on	NF	A	1	Rm 1	300 <sup>2</sup> ft	142325
	Description: 12x12 wood		B	1			
8	Material: Linoleum + paper backing	NF	A	1	Rm 1	300 <sup>2</sup> ft	142325
	Description: White		B	1			
9	Material: Floor Tile Stuck on	NF	A	3	Rm 3	1500 <sup>2</sup> ft	142335
	Description: Grey 12x12		B	3			
10	Material: Linoleum + paper backing	NF	A	4	Rm 4	1000 <sup>2</sup> ft	142342
	Description: White		B	4			
11	Material: Floor Tile Stuck on	NF	A	5	Rm 5	750 <sup>2</sup> ft	142356
	Description: 12x12 Grey		B	5			

2 samples

**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 2/23/2015

Job #: 173535		Building: 4318 Ingham			Date: 8-2-15		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location Need only be more	Material located throughout bldg (Please List all Rooms)	Quantity	Picture #
12	Material: Floor tile stickers Description: 12x12 white	NF	A B	S 356749 S 356750	Rms 2nd	1500 <sup>sq</sup> ft	142356
13	Material: Blown in Description: Grey	F	A B	1 356751 3 356752	1st floor exterior walls	2700 <sup>sq</sup> ft	142412
14	Material: Vermiculite Description: Green	F		Assumed <del>356753</del>	1st floor ceiling	400 <sup>sq</sup> ft	142431
15	Material: Roof Shingle Description: Grey	NF	A B	exterior 356753 " " 356754	Roof of house & Garage	1600 <sup>sq</sup> ft	142442
16	Material: Tarpaper Description: Black	F	A B	exterior 356755 " " 356756	under wood siding	2800 <sup>sq</sup> ft	142458
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						
	Material: Description:						

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: \_\_\_\_\_

Forrest Budd, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-37627

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-31-479-191
House No:	2212 W. Jolly Rd., Lansing, MI 48911
Date Inspected:	08/01/2015
Inspected By:	Andre Richardson
Inspectors State Card #	A-45125

Building Information			
No. Stories	2 + Attic	Garage	No Garage
Square Footage	1,600 SF	Garage Square Footage	
Basement Square Footage	No Basement	Garage Siding	
Siding	Wood	Garage Color	
Color	Brown	Garage Shingles	
Roof Shingles	Asphalt Shingle	Electric (Gone)	Connected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-479-191  
House No. 2212 W. Jolly Rd., Lansing, MI 48911  
Date Inspected: 08/01/2015

**TABLE 1**

## **HAZARDOUS MATERIALS**

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
-----------------------------	-----------------------------	-----------------

None observed above household quantities		
--	--	--

## **TIRE(s) REPORT**

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
-----------------	-----------------------------	-----------------

None observed above household quantities		
--	--	--

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-31-479-191  
 House No. 2212 W. Jolly Rd., Lansing, MI 48911  
 Date Inspected: 08/01/2015

**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**

<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	F	Texture, White	Rooms 1, 3, 4 & 7	2,500 SF	No
2	F	Drywall, White	Rooms 1-7	4,200 SF	No
3	F	Mud, White	Rooms 1-7	4,200 SF	No
4	F	Tape, White	Rooms 1-7	4,200 SF	No
5	NF	Stack Pipe Cement, Grey	Room 4	2 SF	No
6	F	Ceiling Tile, 12x12, Stapled White	Room 6	400 SF	No
7	F	Window Glaze, White	Rooms 3-7	6 Windows	No
8	NF	Floor Tile, 12x12, Peel & Stick, White	Room 3	500 SF	No
9	NF	Roof Shingles, Black	Home Roof 9	1,200 SF	No
10	NF	Roof Shingles, Brown, Under Material 9	Home Roof 9	1,200 SF	No
11	NF	Roof Shingles, White & Red, Under Material 10	Home Roof 9	1,200 SF	No
12	NF	Roof Shingles, White & Red, Under Material 11	Home Roof 9	1,200 SF	No
13	NF	Roof Shingles, Brown, Under Material 12	Home Roof 9	1,200 SF	No
15	F	Fiber Paper, Black, Under Siding	Home Exterior 9	4,200 SF	No

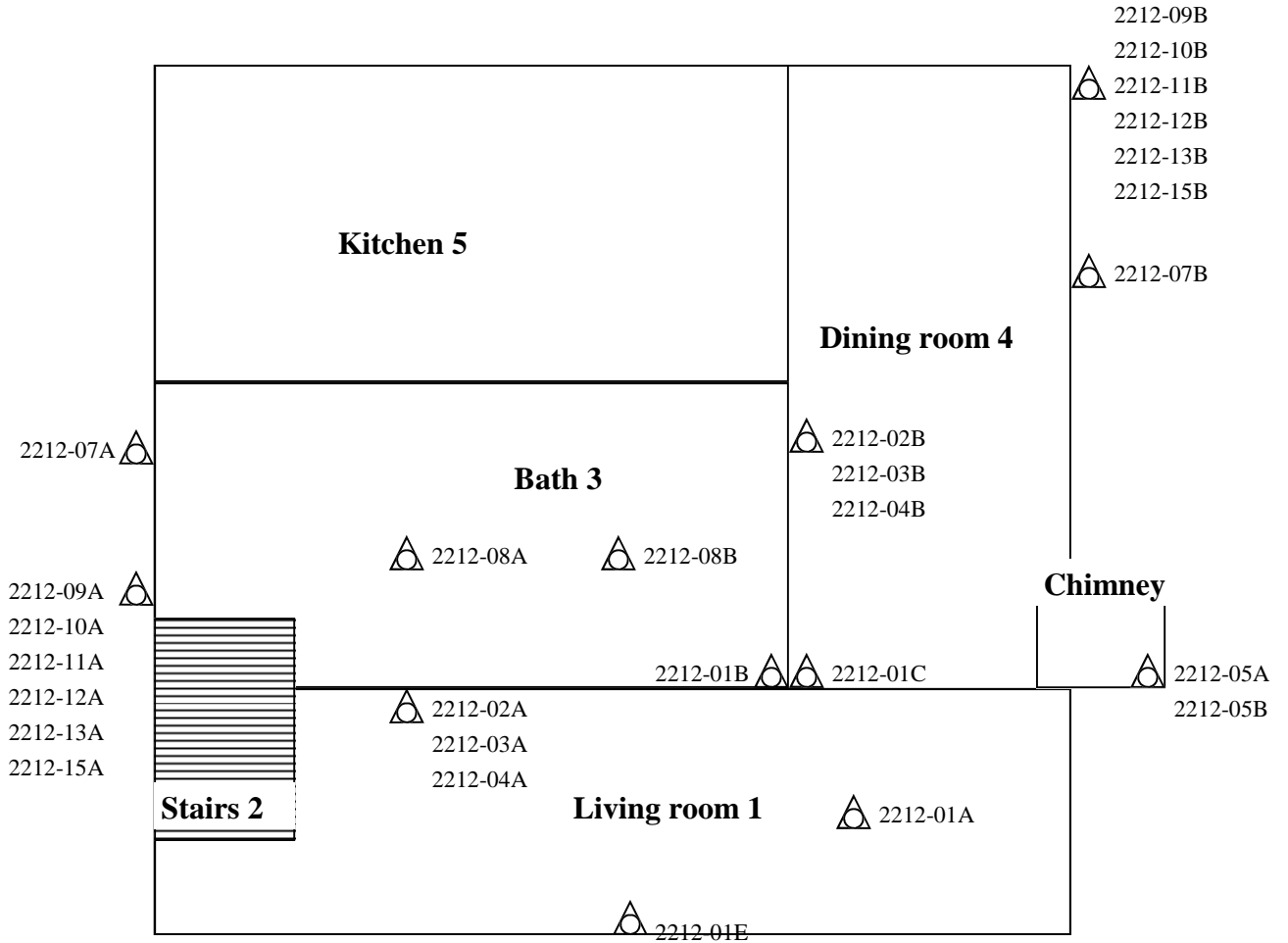
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.





Attachment:

Site Drawing

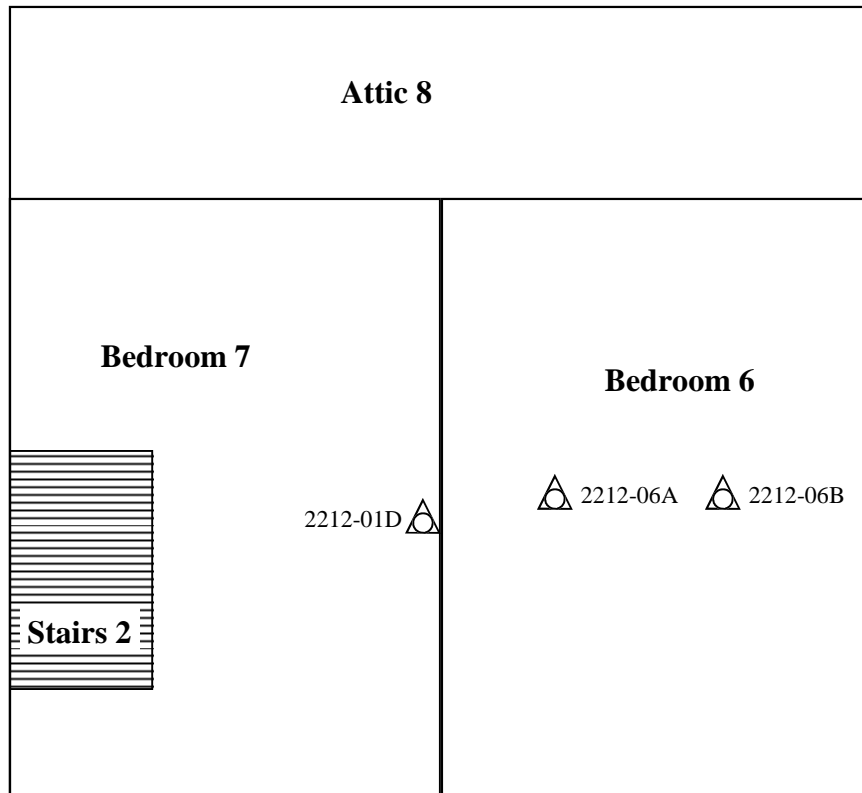
**1st floor**





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.

- HAZ Hazardous materials
-  Sample Location
-  Tires

**2nd floor**



- HAZ Hazardous materials
-  Sample Location
-  Tires

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:	33-01-01-31-479-191
House No.	2212 W. Jolly Rd., Lansing, MI 48911
Date Inspected:	08/01/2015



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

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 : Vacant Residence  
2212 W. Jolly Rd., Lansing, MI

Attention : Roxanne Case

Client Project : 33-01-01-31-479-191

ETC Job : 173536

Report Date : 8/5/2015

Login #	Sample ID	Work Requested	Completed
356612	1A	Asbestos Analysis	08/05/2015
356613	1B	Asbestos Analysis	08/05/2015
356614	1C	Asbestos Analysis	08/05/2015
356615	1D	Asbestos Analysis	08/05/2015
356616	1E	Asbestos Analysis	08/05/2015
356617	2A	Asbestos Analysis	08/05/2015
356618	2B	Asbestos Analysis	08/05/2015
356619	3A	Asbestos Analysis	08/05/2015
356620	3B	Asbestos Analysis	08/05/2015
356621	4A	Asbestos Analysis	08/05/2015
356622	4B	Asbestos Analysis	08/05/2015
356623	5A	Asbestos Analysis	08/05/2015
356624	5B	Asbestos Analysis	08/05/2015
356625	6A	Asbestos Analysis	08/05/2015
356626	6B	Asbestos Analysis	08/05/2015
356627	7A	Asbestos Analysis	08/05/2015
356628	7B	Asbestos Analysis	08/05/2015
356629	8A	Asbestos Analysis	08/05/2015
356630	8B	Asbestos Analysis	08/05/2015
356631	9A	Asbestos Analysis	08/05/2015

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
356632	9B	Asbestos Analysis	08/05/2015
356633	10A	Asbestos Analysis	08/05/2015
356634	10B	Asbestos Analysis	08/05/2015
356635	11A	Asbestos Analysis	08/05/2015
356636	11B	Asbestos Analysis	08/05/2015
356637	12A	Asbestos Analysis	08/05/2015
356638	12B	Asbestos Analysis	08/05/2015
356639	13A	Asbestos Analysis	08/05/2015
356640	13B	Asbestos Analysis	08/05/2015
356641	15A	Asbestos Analysis	08/05/2015
356642	15B	Asbestos Analysis	08/05/2015

---

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 :** Vacant Residence  
 2212 W. Jolly Rd., Lansing, MI

**ETC Job :** 173536  
**Client Project :** 33-01-01-31-479-191  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356612 1A Rm 1 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356613 1B Rm 3 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
356614 1C Rm 4 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356615 1D Rm 7 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356616 1E Rm 1 Analyst: Shea Burgeson	Textured Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356617 2A Rm 1 Analyst: Shea Burgeson	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356618 2B Rm 4 Analyst: Shea Burgeson	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% 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 :** Vacant Residence  
 2212 W. Jolly Rd., Lansing, MI

**ETC Job :** 173536  
**Client Project :** 33-01-01-31-479-191  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356619 3A Rm 1 Analyst: Shea Burgeson	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356620 3B Rm 4 Analyst: Shea Burgeson	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356621 4A Rm 1 Analyst: Shea Burgeson	Tape	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356622 4B Rm 4 Analyst: Shea Burgeson	Tape	White Fibrous Homogenous	80% Cellulose	20% Other	None Detected
356623 5A Rm 4 Analyst: Shea Burgeson	Stack Pipe Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356624 5B Rm 4 Analyst: Shea Burgeson	Stack Pipe Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
356625 6A Rm 6 Analyst: Shea Burgeson	12x12 Stapled Ceiling Tile	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected

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38900 Huron River Drive  
Romulus, MI 48174  
**Location :** Vacant Residence  
2212 W. Jolly Rd., Lansing, MI

**ETC Job :** 173536  
**Client Project :** 33-01-01-31-479-191  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356626 6B Rm 6 Analyst: Shea Burgeson	12x12 Stapled Ceiling Tile	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
356627 7A Rm 3 Analyst: Shea Burgeson	Window Glazing	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356628 7B Rm 4 Analyst: Shea Burgeson	Window Glazing	White Non-Fibrous Homogenous		100% Other	None Detected
356629 8A Rm 3 Analyst: Shea Burgeson	12x12 Peel n Stick Floor Tile	White Non-Fibrous Homogenous		100% Other	None Detected
356630 8B Rm 3 Analyst: Shea Burgeson	12x12 Peel n Stick Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
356631 9A Home 9, Roof Analyst: Shea Burgeson	Roof Shingle	Black Non-Fibrous Homogenous	1% Cellulose 5% Fiberglass	94% Other	None Detected
356632 9B Home 9, Roof Analyst: Shea Burgeson	Roof Shingle	Black Non-Fibrous Homogenous	1% Cellulose 15% Fiberglass	84% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

**To :** Environmental Testing And Consulting Inc.  
 38900 Huron River Drive  
 Romulus, MI 48174  
**Location :** Vacant Residence  
 2212 W. Jolly Rd., Lansing, MI

**ETC Job :** 173536  
**Client Project :** 33-01-01-31-479-191  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356633 10A Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 9)	Brown Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356634 10B Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 9)	Brown Non-Fibrous Homogenous	25% Cellulose	75% Other	None Detected
356635 11A Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 10)	White/Red Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356636 11B Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 10)	White/Red Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
356637 12A Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 11)	White/Red Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
356638 12B Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 11)	White/Red Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356639 13A Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 12)	Brown Non-Fibrous Homogenous	25% Cellulose	75% 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 :** Vacant Residence  
 2212 W. Jolly Rd., Lansing, MI

**ETC Job :** 173536  
**Client Project :** 33-01-01-31-479-191  
**Date Collected :** 08/01/2015  
**Date Received :** 08/03/2015  
**Date Analyzed :** 08/05/2015

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
356640 13B Home 9, Roof Analyst: Shea Burgeson	Roof Shingle (under mat 12)	Brown Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
356641 15A Home 9, Ext Analyst: Shea Burgeson	Fiber Paper (under siding)	Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected
356642 15B Home 9, Ext Analyst: Shea Burgeson	Fiber Paper (under siding)	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Shea Burgeson

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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**ENVIRONMENTAL TESTING LABORATORIES, INC**  
 38800 HURON RIVER DRIVE  
 ROMULUS, MICHIGAN 48174  
 (734) 955-6600  
 FAX: (734) 992-2261  
 www.2etl.com



**Bulk Asbestos  
 Chain of Custody**

Client: ETC Contact: Tammy Wall ETL Project #: 173536  
 Address: \_\_\_\_\_ Phone: \_\_\_\_\_ Project Location/Name: 2212 W. Jolly Rd  
 Please Provide Results:  Email  Fax  Verbal  Other E-mail: results@etc.com Client Project #: \_\_\_\_\_  
 Turnaround Time (TAT):  RUSH  Same Day  24 hr  Standard (5+ days)  Other Date Sampled: 8/11/15  
 PLM Instructions (Check all that apply)  
 PLM EPA600/R-93/116, 1993 (Standard method)  Stop at 1st Positive -  
 Point Counting: 400 Points\*  PLM Non-Building Material (Dust, Wipe, Tape)  Soil or Vermiculite Analysis \*  
 \*Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	1A-E	356612-356642	
	2A-B		
	↓		
	15A-B		

Relinquished (Name/Organization):	Received (Name/ETL):	Date	Time
<u>H. L.</u>		<u>8/3/15</u>	
	<u>SB</u>	<u>8/3/15</u>	<u>am/pm</u>
		<u>8/4/15</u>	<u>am/pm</u>
	<u>SB</u>	<u>8/4/15</u>	<u>am/pm</u>
QA/QC Review (Name/ETL):			
Special Instructions:			

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #: 173536		Building: 2212 W. Jolly RD Lansing MI			Date: 8-1-15			
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: texture	f	A	1	356612	1, 3, 4, 7	2,500	1847
	white		B	3	356613			
			C	4	356614			
			D	7	356615			
			E	1	356616			
	Material:							
	Material:							

<1000 SF = 3 samples

1000 - <5000 = 5 samples

>5000 = 7 samples

**Asbestos Material Sampling Summary Sheet**  
Miscellaneous materials

Revision date 5/7/2015

Job #: 173536		Building: 2212 W. Jolly Rd. Leansy, MD			Date: 8-1-15		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
2	Material: Drywall	F	A	1	356617	1-7	4,200 sq ft
	Description: white		B				
3	Material: mud	F	A	↓	356618	↓	↓
	Description: white		B				
4	Material: Tape	F	A	↓	356620	↓	↓
	Description: white		B				
5	Material: Stack pipe cement	NF	A	4 ↓	356622	4	2 sq ft
	Description: Green		B				
6	Material: Ceiling tile 12x12	F	A	6 ↓	356623	6	400 sq ft
	Description: stippled white		B				
7	Material: Window Glazing	F	A	3	356625	3, 4, 5, 6, 7	6 window
	Description: white		B				
8	Material: Floor tile 12x12 Peel & Stick	NF	A	3 ↓	356626	3	500 sq ft
	Description: white		B				
9	Material: Roof shingles Black	NF	A	a Home Loop	356629	9 Home Loop	1,200 sq ft
	Description		B				
10	Material: Roof shingles Brown	NF	A	↓	356630	↓	↓
	Description: under 9		B				
11	Material: Roof shingles white	NF	A	↓	356631	↓	↓
	Description: under 10		B				
					356632		
					356633		
					356634		
					356635		
					356636		



**Asbestos Material Sampling Summary Sheet**  
**Miscellaneous materials**

Revision date 5/7/2015

Job #: 173532		Building: 2212 W. Jolly Rd. Lansing MI			Date: 8-1-15			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
12	Material: Roof shingles	NF	A	9 Home Roof	356637	9 Home Roof	1,200 sq ft	1854
	Description: White & Red under 11		B					
13	Material: Roof shingles Brown	NF	A	↓	356638	↓	↓	↓
	Description: under 12		B					
<del>14</del>	Material:				356640			
	Description:							
15	Material: Fiber Paper Black	F	A	9 Home EXT	356641	9 Home EXT	4,200 sq ft	1853
	Description: under siding		B					
	Material:				356642			
	Description:							
	Material:							
	Description:							
	Material:							
	Description:							
	Material:							
	Description:							
	Material:							
	Description:							

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:  \_\_\_\_\_  
Andre Richardson, Michigan Certified Asbestos Inspector (s)  
Michigan Accreditation Number (s) A-45125