

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
 3024 Turner Street  
 Lansing, MI 48906

Parcel:	33-01-01-21-428-045
House No:	1418 Bailey St, Lansing MI 48910
Date Inspected:	12/20/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1872 SF	Garage Square Footage	NA
Basement Square Footage	792 SF	Garage Siding	NA
Siding	Wood, Brick	Garage Color	NA
Color	Brown/yellow	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-428-045  
House No. 1418 Bailey St, Lansing MI 48910  
Date Inspected: 12/20/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Heater	2	Room 8
Refrigerator	2	Room 4, 8
Electronics	1	Room 4
Paint Cans	3 (1 gallon)	Room 8
Smoke Detectors	3	Room 2, 9, 10
Thermostat	1	Room 2

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
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None observed above household quantities		
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Pre-Demolition Environmental Inspection Summary Report

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 House No. 1418 Bailey St, Lansing MI 48910  
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**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</b>	<b>Throughout</b>	<b>5851 SF</b>	<b>YES</b>
2	F	Texture, white	Room 10-13	3213 SF	No
<b>3</b>	<b>F</b>	<b>Duct wrap, grey</b>	<b>Room 8</b>	<b>105 SF</b>	<b>YES</b>
4	F	Blown-in-insulation, brown	Room 15	792 SF	No
5	NF	Ceiling tile, white	Room 2, 4	450 SF	No
6	NF	Linoleum, white	Room 4, 5	360 SF	No
7	NF	12x12 Peel and stick, white	Room 6	24 SF	No
8	NF	12x12 Peel and stick, white/blue	Room 1	28 SF	No
9	NF	Wall linoleum, white	Room 4	805 SF	No
10	NF	Linoleum, brown	Room 3	36 SF	No
11	NF	Drywall, white	Room 5	96 SF	No
12	NF	Window glaze, white	Exterior	15 windows	No
13	NF	Shingle, white	Exterior	1900 SF	No
14	NF	Concrete wall, grey	Room 8	798 SF	No
15	NF	Mortar, grey	Room 8	600 SF	No
16	NF	Concrete floor, grey	Room 8	792 SF	No
17	NF	Brick, grey	Room 8, exterior (chimney)	1400 SF	No
18	NF	Mortar, grey	Room 8, exterior (chimney)	1000 SF	No
19	NF	Cinder block, grey	Room 8	168 SF	No
20	NF	Mortar, grey	Room 8	100 SF	No

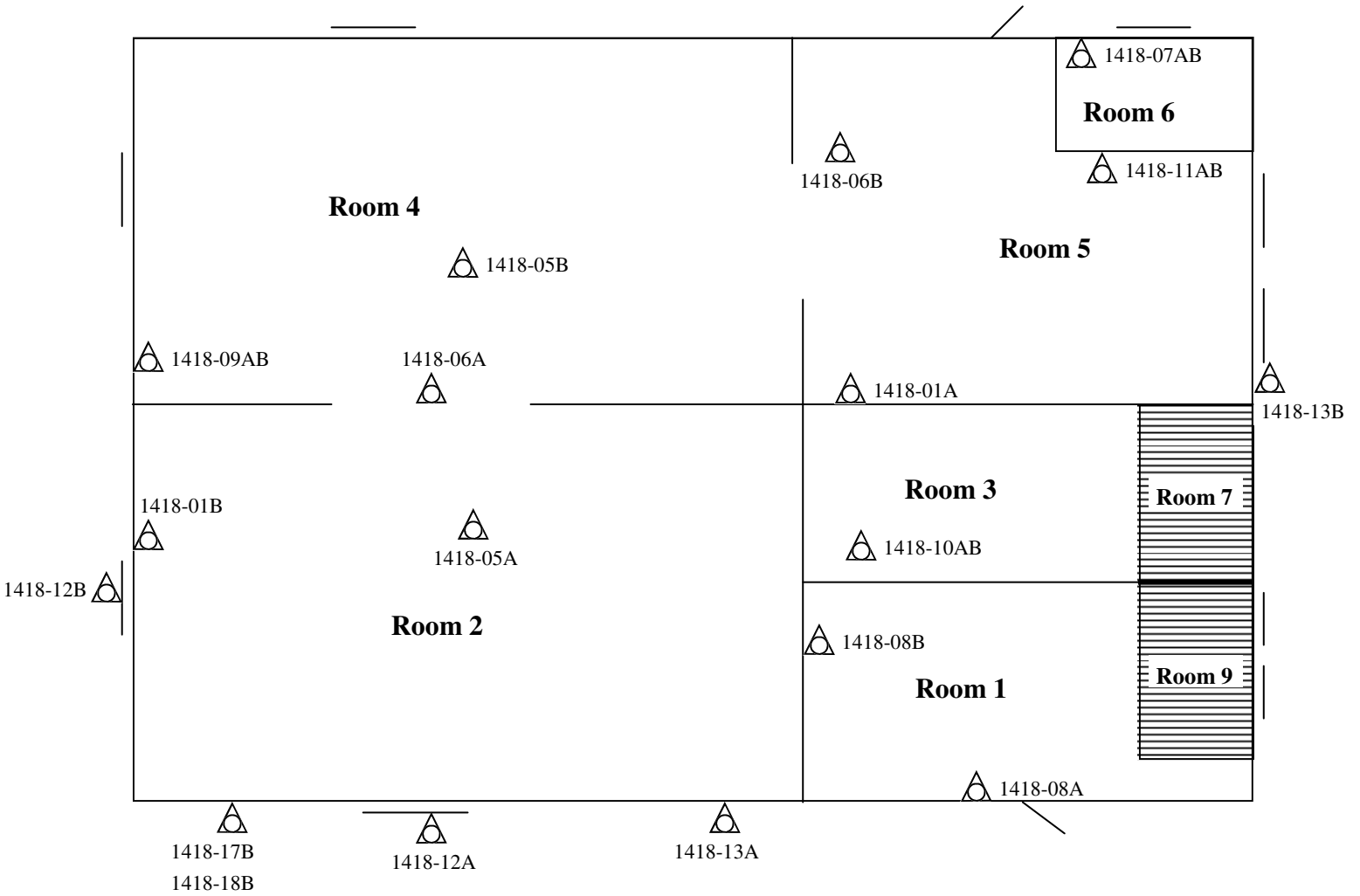
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

**1st floor**

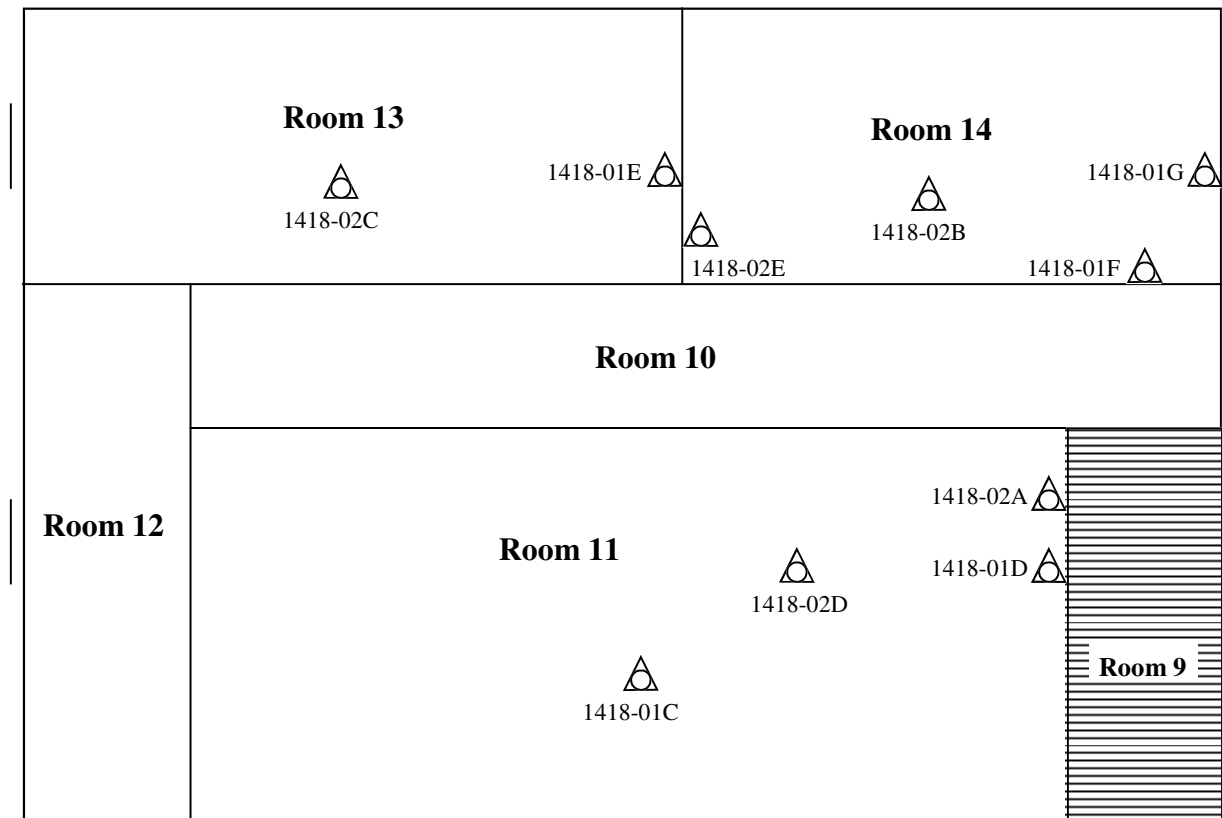
33-01-01-21-428-045  
1418 Bailey St, Lansing MI 48910  
12/20/2017



 Sample Location

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

Ingham County Land Bank  
199855

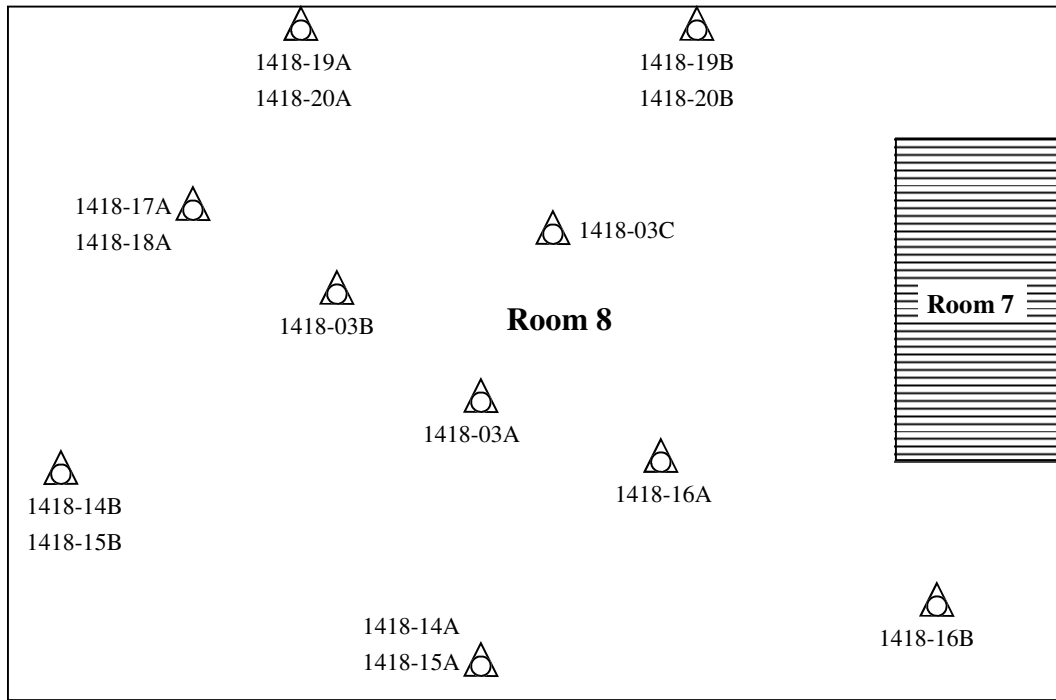


 Sample Location

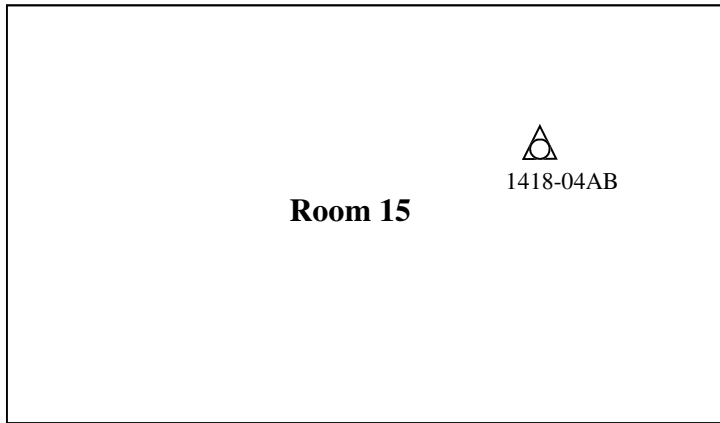
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.


**Basement**

33-01-01-21-428-045  
1418 Bailey St, Lansing MI 48910  
12/20/2017



**Attic**



 Sample Location

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

Attachment:

Site Photographs



## Representative Pictures of House/Property

Parcel: 33-01-01-21-428-045  
House No. 1418 Bailey St, Lansing MI 48910  
Date Inspected: 12/20/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-428-045  
House No. 1418 Bailey St, Lansing MI 48910  
Date Inspected: 12/20/2017



Hot Water Heater



Refrigerator



Electronics



Paint Cans

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-428-045  
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Smoke Detectors



Thermostat

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-21-428-045
House No.	1418 Bailey St, Lansing MI 48910
Date Inspected:	12/20/2017



Plaster



Duct Wrap

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 :  
1418 Bailey St, Lansing, MI

**Attention :**

Client Project : 33-01-01-21-428-045

ETC Job : 199855

Report Date : 12/28/2017

Login #	Sample ID	Work Requested	Completed
642962	01A	Asbestos Analysis	12/28/2017
642963	01B	Asbestos Analysis	12/28/2017
642964	01C	Asbestos Analysis	12/28/2017
642965	01D	Asbestos Analysis	12/28/2017
642966	01E	Asbestos Analysis	12/28/2017
642967	01F	Asbestos Analysis	12/28/2017
642968	01G	Asbestos Analysis	12/28/2017
642969	02A	Asbestos Analysis	12/28/2017
642970	02B	Asbestos Analysis	12/28/2017
642971	02C	Asbestos Analysis	12/28/2017
642972	02D	Asbestos Analysis	12/28/2017
642973	02E	Asbestos Analysis	12/28/2017
642974	03A	Asbestos Analysis	12/28/2017
642975	03B	Asbestos Analysis	12/28/2017
642976	03C	Asbestos Analysis	12/28/2017
642977	04A	Asbestos Analysis	12/28/2017
642978	04B	Asbestos Analysis	12/28/2017
642979	05A	Asbestos Analysis	12/28/2017
642980	05B	Asbestos Analysis	12/28/2017
642981	06A	Asbestos Analysis	12/28/2017

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<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
642982	06B	Asbestos Analysis	12/28/2017
642983	07A	Asbestos Analysis	12/28/2017
642984	07B	Asbestos Analysis	12/28/2017
642985	08A	Asbestos Analysis	12/28/2017
642986	08B	Asbestos Analysis	12/28/2017
642987	09A	Asbestos Analysis	12/28/2017
642988	09B	Asbestos Analysis	12/28/2017
642989	10A	Asbestos Analysis	12/28/2017
642990	10B	Asbestos Analysis	12/28/2017
642991	11A	Asbestos Analysis	12/28/2017
642992	11B	Asbestos Analysis	12/28/2017
642993	12A	Asbestos Analysis	12/28/2017
642994	12B	Asbestos Analysis	12/28/2017
642995	13A	Asbestos Analysis	12/28/2017
642996	13B	Asbestos Analysis	12/28/2017
642997	14A	Asbestos Analysis	12/28/2017
642998	14B	Asbestos Analysis	12/28/2017
642999	15A	Asbestos Analysis	12/28/2017
643000	15B	Asbestos Analysis	12/28/2017
643001	16A	Asbestos Analysis	12/28/2017
643002	16B	Asbestos Analysis	12/28/2017
643003	17A	Asbestos Analysis	12/28/2017
643004	17B	Asbestos Analysis	12/28/2017
643005	18A	Asbestos Analysis	12/28/2017
643006	18B	Asbestos Analysis	12/28/2017
643007	19A	Asbestos Analysis	12/28/2017
643008	19B	Asbestos Analysis	12/28/2017

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Login #	Sample ID	Work Requested	Completed
643009	20A	Asbestos Analysis	12/28/2017
643010	20B	Asbestos Analysis	12/28/2017

Reviewed by:



Quality Assurance Coordinator





# 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 :  
1418 Bailey St, Lansing, MI

ETC Job : 199855  
Client Project : 33-01-01-21-428-045  
Date Collected : 12/20/2017  
Date Received : 12/22/2017  
Date Analyzed : 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642962 01A RM5 E Wall Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3.25% Cellulose	95.5% Other	PC 1.25% Chrysotile
642963 01B RM2 S Wall Analyst: Jessica Dilworth		Not Analyzed			
642964 01C RM11 Center Ceiling Analyst: Jessica Dilworth		Not Analyzed			
642965 01D RM11 N Wall Analyst: Jessica Dilworth		Not Analyzed			
642966 01E RM13 N Wall Analyst: Jessica Dilworth		Not Analyzed			
642967 01F RM14 E Wall Analyst: Jessica Dilworth		Not Analyzed			
642968 01G RM14 N Wall Analyst: Jessica Dilworth		Not Analyzed			

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 38900 Huron River Drive  
 Romulus, MI 48174

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642969 02A RM11 N Wall Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642970 02B RM 14 Center Ceiling Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642971 02C RM13 Center Ceiling Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642972 02D RM11 Center Ceiling Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642973 02E RM14 S Wall Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
642974 03A RM8 Center Duct Analyst: Jessica Dilworth	Duct Wrap	Grey Fibrous Homogenous	45% Cellulose	15% Other	40% Chrysotile
642975 03B RM8 S Duct Analyst: Jessica Dilworth		Not Analyzed			

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642976 03C RM8 W Duct Analyst: Jessica Dilworth		Not Analyzed			
642977 04A Attic Floor Center Analyst: Jessica Dilworth	Blown-in Insulation	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
642978 04B Attic Floor Center Analyst: Jessica Dilworth	Blown-in Insulation	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
642979 05A RM2 Center Ceiling Analyst: Jessica Dilworth	Ceiling Tile	White Fibrous Homogenous	60% Cellulose 20% Mineral wool	20% Other	None Detected
642980 05B RM4 Center Ceiling Analyst: Jessica Dilworth	Ceiling Tile	White Fibrous Homogenous	60% Cellulose 20% Mineral wool	20% Other	None Detected
642981 06A RM4 E Floor Analyst: Jessica Dilworth	Linoleum	White Non-Fibrous Homogenous	4% Cellulose 2% Fiberglass	94% Other	None Detected
642982 06B RM5 S Floor Analyst: Jessica Dilworth	Linoleum	White Non-Fibrous Homogenous	4% Cellulose 2% Fiberglass	94% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
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 1418 Bailey St, Lansing, MI

**ETC Job :** 199855  
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**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642983 07A RM6 Center Floor Analyst: Jessica Dilworth	Peel & Stick	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
642984 07B RM6 S Floor Analyst: Jessica Dilworth	Peel & Stick	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
642985 08A RM1 E Floor Analyst: Jessica Dilworth	Peel & Stick	White/Blue Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642986 08B RM1 S Floor Analyst: Jessica Dilworth	Peel & Stick	White/Blue Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642987 09A E Wall RM4 Analyst: Jessica Dilworth	Wall Linoleum	White Non-Fibrous Homogenous	75% Cellulose 5% Fiberglass	20% Other	None Detected
642988 09B S Wall RM4 Analyst: Jessica Dilworth	Wall Linoleum	White Non-Fibrous Homogenous	75% Cellulose 5% Fiberglass	20% Other	None Detected
642989 10A RM3 S Floor Analyst: Jessica Dilworth	Linoleum	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected

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642990 10B RM3 Center Floor Analyst: Jessica Dilworth	Linoleum	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
642991 11A RM5 W Wall Layer-1 Analyst: Jessica Dilworth	Drywall	White Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
642991 11A RM5 W Wall Layer-2 Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642992 11B RM5 W Wall Layer-1 Analyst: Jessica Dilworth	Drywall	White Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
642992 11B RM5 W Wall Layer-2 Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
642993 12A E Window Ext Analyst: Jessica Dilworth	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642994 12B S Window Ext Analyst: Jessica Dilworth	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
642995 13A E Ext House Roof Analyst: Jessica Dilworth	Shingle	Black/White Non-Fibrous Homogenous	2% Cellulose 35% Fiberglass	63% Other	None Detected

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642996 13B N Ext House Roof Analyst: Jessica Dilworth	Shingle	Black/White Non-Fibrous Homogenous	3% Cellulose 25% Fiberglass	72% Other	None Detected
642997 14A E Wall RM8 Analyst: Jessica Dilworth	Concrete Wall	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
642998 14B S Wall RM8 Analyst: Jessica Dilworth	Concrete Wall	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
642999 15A E Wall RM8 Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643000 15B S Wall RM8 Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
643001 16A Center Floor RM8 Analyst: Jessica Dilworth	Concrete Floor	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643002 16B N Floor RM8 Analyst: Jessica Dilworth	Concrete Floor	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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**Date Received :** 12/22/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643003 17A RM8 Center Chimney Analyst: Jessica Dilworth	Brick	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643004 17B Ext House E Side Analyst: Jessica Dilworth	Brick	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
643005 18A RM8 Center Chimney Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643006 18B Ext House E Side Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643007 19A W Wall RM8 Analyst: Jessica Dilworth	Cinderblock	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643008 19B W Wall RM8 Analyst: Jessica Dilworth	Cinderblock	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643009 20A W Wall RM8 Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% 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 :**  
 1418 Bailey St, Lansing, MI

**ETC Job :** 199855  
**Client Project :** 33-01-01-21-428-045  
**Date Collected :** 12/20/2017  
**Date Received :** 12/22/2017  
**Date Analyzed :** 12/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643010 20B W Wall RM8 Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Jessica Dilworth

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

Revision date 5/7/2015

Job #:	199855		Building: 1418 Bailey St		Date: 12/20/17		
	Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity
01	Material: Blown In Description: brown	F	A	Attic floor center 977	Attic	792 SF	33
02	Material: Ceiling Tile Description: white	NF	A	Rm 2 center ceiling 979			
03	Material: Linoleum Description: white	NF	A	Rm 4 center ceiling 980			
04	Material: 12x12 PLS Description: white	NF	A	Rm 4 east floor 981			
05	Material: 12x12 PLS Description: white/blue	NF	A	Rm 5 south floor 982			
06	Material: Wall Linoleum Description: white	NF	A	Rm 6 center floor 983			
07	Material: Linoleum Description: brown	NF	A	Rm 6 south floor 984			
08	Material: Drywall Description: white	NF	A	Rm 1 east wall Rm 4 985			
09	Material: Linoleum Description: brown	NF	A	Rm 1 south wall Rm 4 988			
10	Material: Drywall Description: white	NF	A	Rm 3 south floor 989			
11	Material: Windows Glaze Description: white	NF	A	Rm 5 west wall 991			
12	Material: Shingles Description: white	NF	A	Rm 5 west wall 992			
13	Material: Shingles Description: white	NF	A	east window ext 993			
			B	south window ext 994			
			A	east ext house roof 995			
			B	north ext house roof 996			

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199855	Building: 1418 Bailey St					Date: 12/20/17		
14	Material: Concrete wall		NF	A	east wall Rm 8	8	798 SF	18
	Description: grey			B	South wall Rm 8			
15	Material: Mortar		NF	A	Same as 14A	8	600 SF	18
	Description: grey			B	Same as 14B			
16	Material: Concrete Floor		NF	A	Center floor Rm 8	8	792 SF	15
	Description: grey			B	North floor Rm 8			
17	Material: Brick		NF	A	Rm 8 center chimney	chimney in Rm 8, ext house	1400 SF	16
	Description: grey			B	Ext house side			
18	Material: Mortar		NF	A	Same as 17A	chimney in Rm 8, ext house	1000 SF	16
	Description: grey			B	Same as 17B			
19	Material: Cinder block		NF	A	west wall Rm 8	west wall Rm 8	168 SF	18
	Description: grey			B	west wall Rm 8			
20	Material: Mortar		NF	A	Same as 19A	west wall Rm 8	100 SF	18
	Description: grey			B	Same as 19B			
	Material: Description			A				
	Material: Description			B				
	Material: Description			A				
	Material: Description			B				

Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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



Prepared by: \_\_\_\_\_

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051



# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

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

Parcel:	33-01-01-22-305-101
House No:	1441 Bailey St, Lansing, MI 48910
Date Inspected:	12/21/2017 & 2/27/2018
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1296 SF	Garage Square Footage	NA
Basement Square Footage	576 SF	Garage Siding	NA
Siding	Vinyl	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



## Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-305-101  
House No. 1441 Bailey St, Lansing, MI 48910  
Date Inspected: 12/21/2017 & 2/27/2018

**TABLE 1**

### HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Air Conditioner	1	Room 8
Car Battery	1	Room 5
TV Screen	1	Room 1
Misc. Items (solvents, cleaner)	2	Room 3, 11
Smoke Detectors	2	Room 8, 11

### 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:	33-01-01-22-305-101
House No.	1441 Bailey St, Lansing, MI 48910
Date Inspected:	12/21/2017 & 2/27/2018

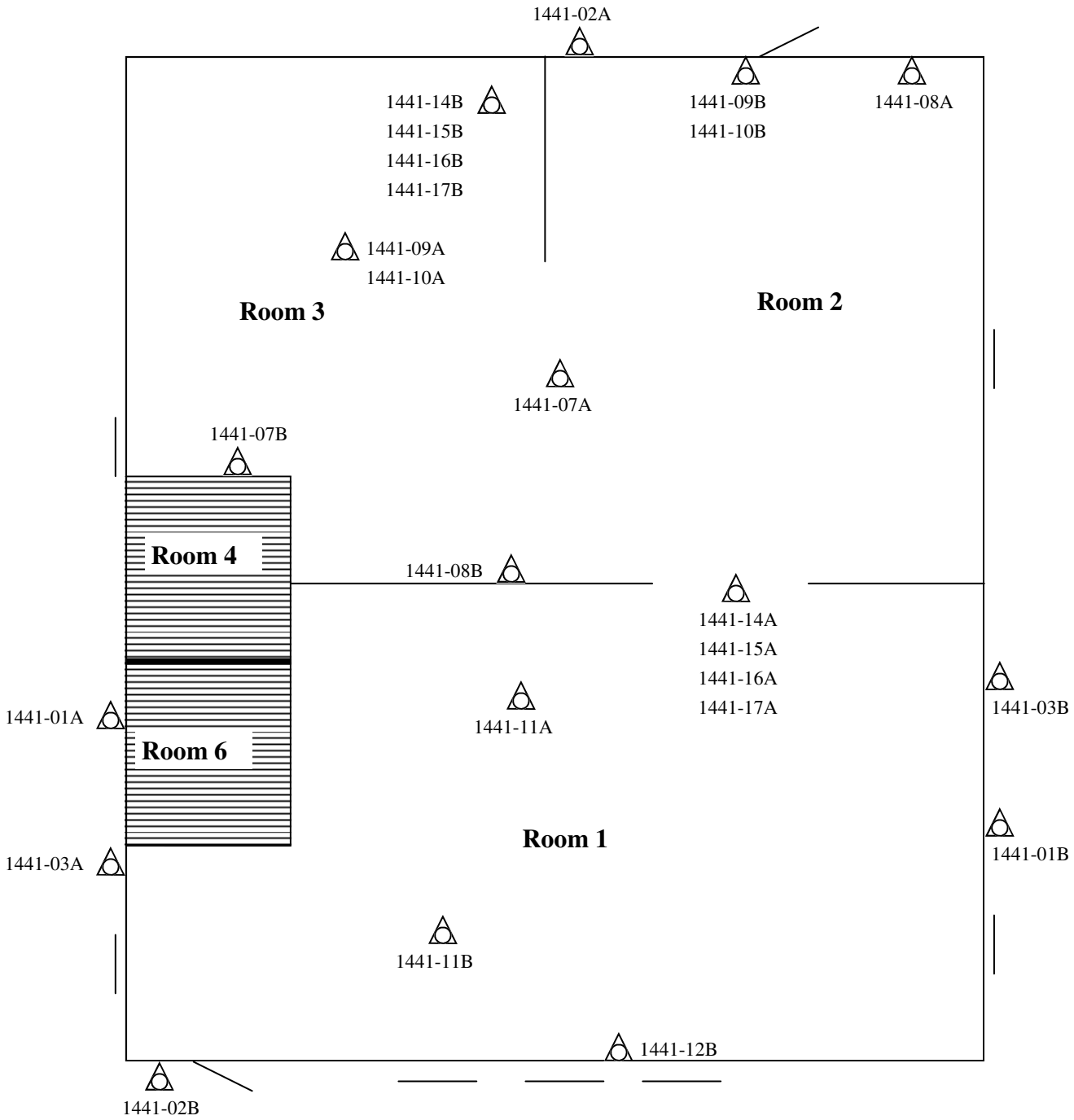
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	House wrap, green with silver back- ing	Exterior	4080 SF	No
2	NF	Shingle, black with white specs	Exterior	800 SF	No
3	NF	Window glaze, white	Exterior	16 windows	No
4	NF	Plaster, grey	Throughout	4900 SF	No
5	NF	Skim coat, white	Throughout	4900 SF	No
<b>6</b>	<b>F</b>	<b>Duct wrap, grey</b>	<b>Room 5</b>	<b>50 SF</b>	<b>YES</b>
7	NF	Floor underlayment, grey	Room 2, 3	450 SF	No
8	F	Drywall, white	Room 1-4	2000 SF	No
9	NF	Mud, white	Room 2, 3	2000 SF	No
10	NF	Tape, white	Room 2, 3	2000 SF	No
11	NF	Ceiling tile, white	Room 1	450 SF	No
12	F	Blown-in-insulation, grey	Throughout	4900 SF	No
13	NF	Linoleum, yellow	Room 7	100 SF	No
14	NF	Linoleum, white	Room 2, 3	450 SF	No
15	NF	12x12 Peel and stick, blue	Room 2, 3	450 SF	No
16	NF	12x12 Peel and stick, wood grain	Room 2, 3	450 SF	No
17	NF	Linoleum, grey/tan	Room 2, 3	450 SF	No
18	NF	Poured concrete, grey	Room 5	450 SF	No
<b>19</b>	<b>NF</b>	<b>Stack pipe cement, grey</b>	<b>Room 5</b>	<b>4 SF</b>	<b>YES</b>

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

Attachment:

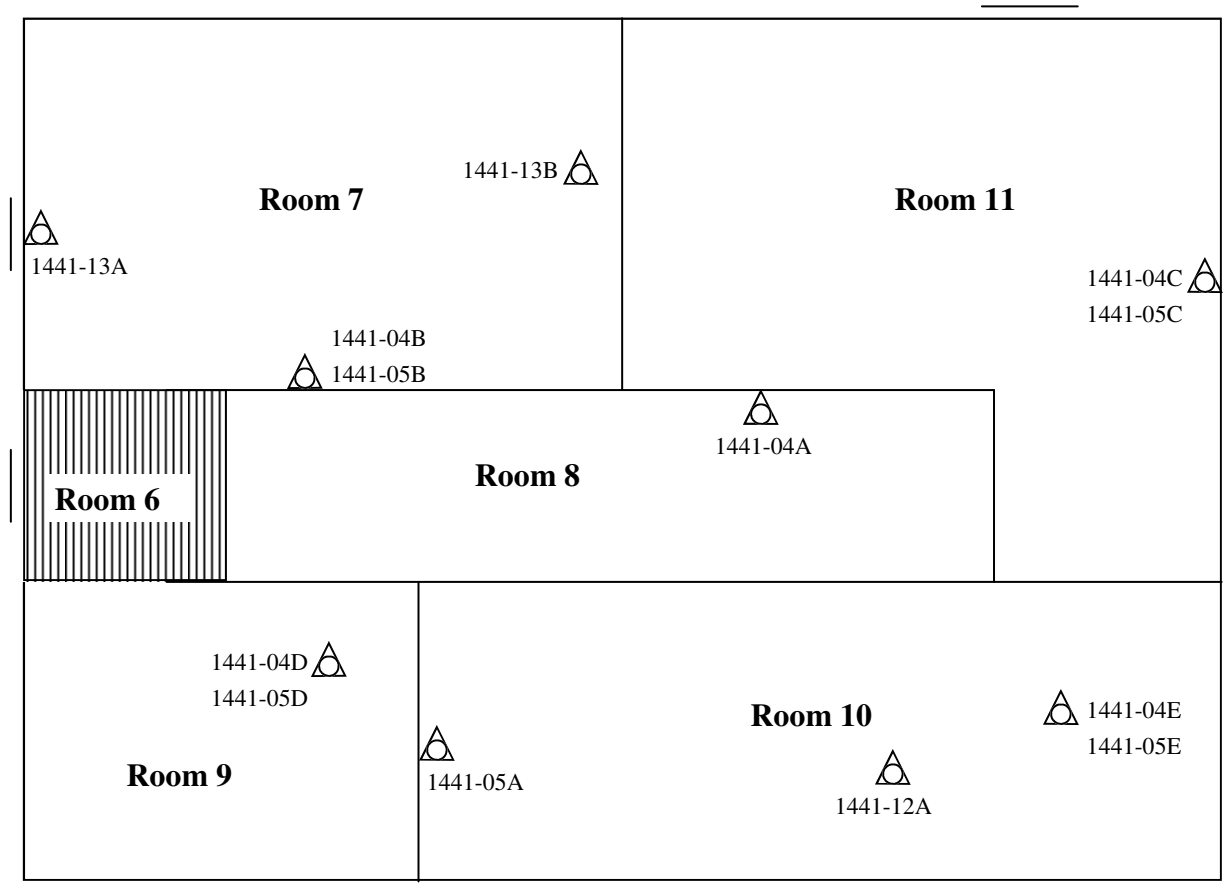
Site Drawing



 Sample Location

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





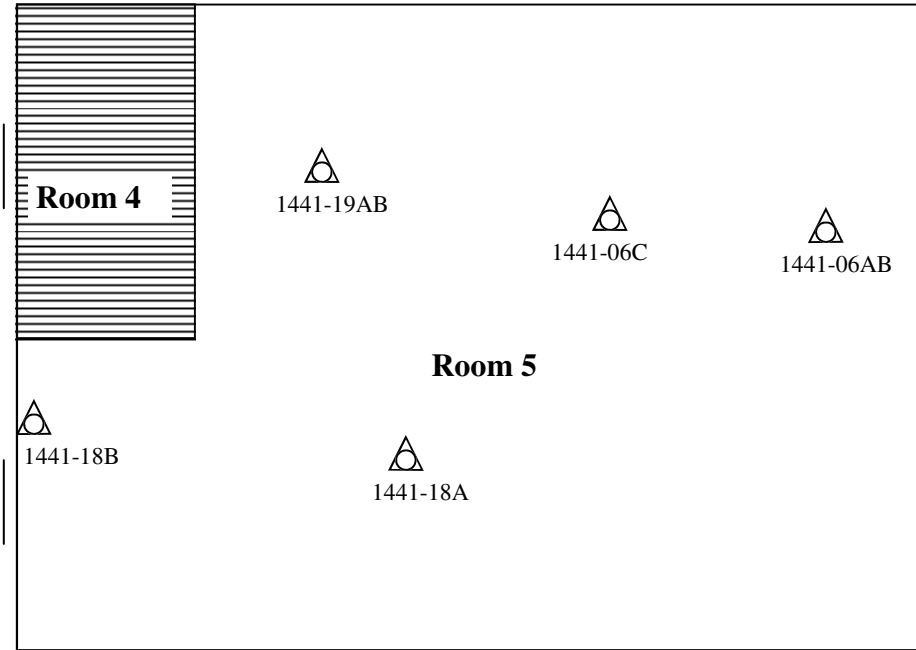
 Sample Location



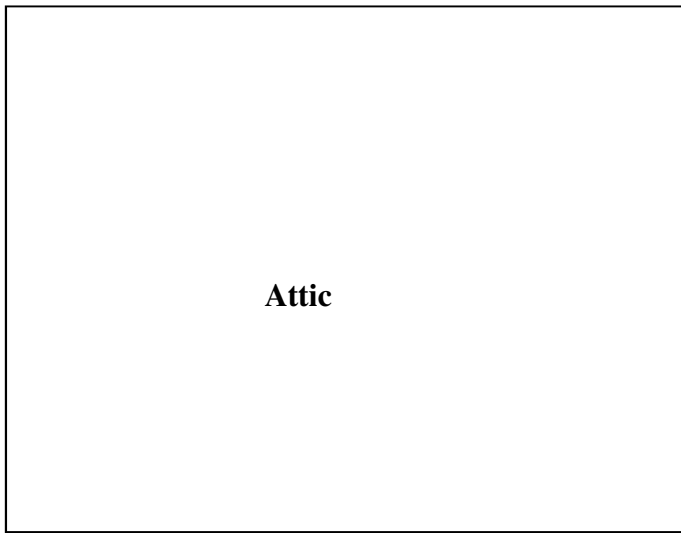
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.


**Basement**

33-01-01-22-305-101  
1441 Bailey St, Lansing, MI 48910  
12/21/2017 & 2/27/2018



**Attic**



 Sample Location

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

Attachment:

Site Photographs



## Representative Pictures of House/Property

Parcel: 33-01-01-22-305-101  
House No. 1441 Bailey St, Lansing, MI 48910  
Date Inspected: 12/21/2017 & 2/27/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-305-101  
House No. 1441 Bailey St, Lansing, MI 48910  
Date Inspected: 12/21/2017 & 2/27/2018



Air Conditioner



Car Battery



TV Screen



Misc. Items (solvent, cleaner)

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-305-101
House No.	1441 Bailey St, Lansing, MI 48910
Date Inspected:	12/21/2017 & 2/27/2018



Smoke Detectors

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-305-101
House No.	1441 Bailey St, Lansing, MI 48910
Date Inspected:	12/21/2017 & 2/27/2018



Duct Wrap



Stacked Pipe Cement

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 :  
1441 Bailey St, Lansing, MI

**Attention :**

Client Project : 33-01-01-22-305-101

ETC Job : 199863

Report Date : 3/6/2018

Login #	Sample ID	Work Requested	Completed
642666	01A	Asbestos Analysis	12/22/2017
642667	01B	Asbestos Analysis	12/22/2017
642668	02A	Asbestos Analysis	12/22/2017
642669	02B	Asbestos Analysis	12/22/2017
642670	03A	Asbestos Analysis	12/22/2017
642671	03B	Asbestos Analysis	12/22/2017
693838	04A	Asbestos Analysis	12/22/2017
693839	04B	Asbestos Analysis	03/02/2018
693840	04C	Asbestos Analysis	03/02/2018
693841	04D	Asbestos Analysis	03/02/2018
693842	04E	Asbestos Analysis	03/02/2018
693843	05A	Asbestos Analysis	03/02/2018
693844	05B	Asbestos Analysis	03/02/2018
693845	05C	Asbestos Analysis	03/02/2018
693846	05D	Asbestos Analysis	03/02/2018
693847	05E	Asbestos Analysis	03/02/2018
693848	06A	Asbestos Analysis	03/02/2018
693849	06B	Asbestos Analysis	03/02/2018
693850	06C	Asbestos Analysis	03/02/2018
693851	07A	Asbestos Analysis	03/02/2018

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---

<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
693852	07B	Asbestos Analysis	03/02/2018
693853	08A	Asbestos Analysis	03/02/2018
693854	08B	Asbestos Analysis	03/02/2018
693855	09A	Asbestos Analysis	03/02/2018
693856	09B	Asbestos Analysis	03/02/2018
693857	10A	Asbestos Analysis	03/02/2018
693858	10B	Asbestos Analysis	03/02/2018
693859	11A	Asbestos Analysis	03/02/2018
693860	11B	Asbestos Analysis	03/02/2018
693861	12A	Asbestos Analysis	03/02/2018
693862	12B	Asbestos Analysis	03/02/2018
693863	13A	Asbestos Analysis	03/02/2018
693864	13B	Asbestos Analysis	03/02/2018
693865	14A	Asbestos Analysis	03/02/2018
693866	14B	Asbestos Analysis	03/02/2018
693867	15A	Asbestos Analysis	03/02/2018
693868	15B	Asbestos Analysis	03/02/2018
693869	16A	Asbestos Analysis	03/02/2018
693870	16B	Asbestos Analysis	03/02/2018
693871	17A	Asbestos Analysis	03/02/2018
693872	17B	Asbestos Analysis	03/02/2018
693873	18A	Asbestos Analysis	03/02/2018
693874	18B	Asbestos Analysis	03/02/2018
693875	19A	Asbestos Analysis	03/02/2018
693876	19B	Asbestos Analysis	03/02/2018

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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 :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 12/21/2017  
**Date Received :** 12/22/2017  
**Date Analyzed :** 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
642666 01A North Wall Ext House Analyst: Sarah Poirier	House Wrap	Green/Silver Fibrous Homogenous	99% Cellulose	1% Other	None Detected
642667 01B South Wall Ext House Analyst: Sarah Poirier	House Wrap	Green/Silver Fibrous Homogenous	99% Cellulose	1% Other	None Detected
642668 02A East Roof Ext House Analyst: Sarah Poirier	Shingle	Black/White Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
642669 02B West Roof Ext House Analyst: Sarah Poirier	Shingle	Black/White Non-Fibrous Homogenous	5% Fiberglass	95% Other	None Detected
642670 03A North Window Ext Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
642671 03B South Window Ext Analyst: Sarah Poirier	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 12/22/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693838 04A RM8 East Wall Layer-1 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	5% Cellulose 1% Other fibrous	94% Other	None Detected
693838 04A RM8 East Wall Layer-2 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693839 04B RM7 West Wall Layer-1 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693839 04B RM7 West Wall Layer-2 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose 1% Fiberglass	98% Other	None Detected
693840 04C RM11 South Wall Layer-1 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	1% Other fibrous 3% Cellulose	96% Other	None Detected
693840 04C RM11 South Wall Layer-2 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693841 04D RM 9 Ceiling Center Layer-1 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	1% Other fibrous 2% Cellulose	97% Other	None Detected
693841 04D RM 9 Ceiling Center Layer-2 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693842 04E RM10 Ceiling Centers Layer-1 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693842 04E RM10 Ceiling Centers Layer-2 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693843 05A RM10 North Wall Layer-1 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693843 05A RM10 North Wall Layer-2 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693844 05B RM7 West Wall Layer-1 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693844 05B RM7 West Wall Layer-2 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693845 05C RM 11 South Wall Layer-1 Analyst: Madeline Palmer	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693845 05C RM 11 South Wall Layer-2 Analyst: Madeline Palmer	Plaster	Grey Fibrous Homogenous	2% Cellulose 1% Other fibrous	97% 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 :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693846 05D RM9 Ceiling Center Analyst: Madeline Palmer  No Plaster Present	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693847 05E RM 10 Ceiling Center Analyst: Madeline Palmer  No Plaster Present	Skim	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
693848 06A RM 5 South Duct Analyst: Kristina Ivanovic	Duct Wrap	Gray Fibrous Homogenous	5% Cellulose	22% Other	70% Chrysotile 3% Amosite
693849 06B RM 5 South Duct Analyst: Kristina Ivanovic		Not Analyzed			
693850 06C RM 5 Center Duct Analyst: Kristina Ivanovic		Not Analyzed			
693851 07A RM 2 North Floor Analyst: Kristina Ivanovic	Floor Underlayment	Grey Fibrous Homogenous	75% Cellulose	25% Other	None Detected
693852 07B RM 3 West Floor Analyst: Kristina Ivanovic	Floor Underlayment	Grey Fibrous Homogenous	65% Cellulose	35% 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 :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693853 08A RM 2 East Wall Analyst: Kristina Ivanovic  No Skim Present	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693854 08B RM 3 West Wall Layer-1 Analyst: Kristina Ivanovic	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693854 08B RM 3 West Wall Layer-2 Analyst: Kristina Ivanovic	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693855 09A RM 3 Center Ceiling Analyst: OJ Ivey	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693856 09B RM 2 East Wall Analyst: OJ Ivey	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693857 10A RM Center Ceiling Analyst: OJ Ivey	Tape	Beige/White Fibrous Homogenous	98% Cellulose	2% Other	None Detected
693858 10B RM 2 East Wall Analyst: OJ Ivey	Tape	Beige/White Fibrous Homogenous	90% Cellulose	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 :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693859 11A RM 1 Center Ceiling Analyst: OJ Ivey	Ceiling Tile	Grey Fibrous Homogenous	30% Fiberglass 10% Cellulose	60% Other	None Detected
693860 11B RM 1 West Ceiling Analyst: OJ Ivey	Ceiling Tile	Grey Fibrous Homogenous	30% Fiberglass 10% Cellulose	60% Other	None Detected
693861 12A RM 10 Ceiling Center Analyst: OJ Ivey	Blown-In Insulation	Grey Fibrous Homogenous	100% Cellulose		None Detected
693862 12B RM 1 West Wall Analyst: OJ Ivey	Blown-In Insulation	Grey Fibrous Homogenous	100% Cellulose		None Detected
693863 13A RM 7 North Floor Analyst: OJ Ivey	Linoleum	Yellow Fibrous Homogenous	20% Cellulose	80% Other	None Detected
693864 13B RM 7 South Floor Analyst: OJ Ivey	Linoleum	Yellow Fibrous Homogenous	20% Cellulose	80% Other	None Detected
693865 14A RM 2 West Floor Analyst: OJ Ivey	Linoleum	White Fibrous Homogenous	10% Fiberglass 30% Cellulose	60% 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 :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693866 14B RM 3 East Floor Analyst: OJ Ivey	Linoleum	White Fibrous Homogenous	40% Cellulose 8% Fiberglass	52% Other	None Detected
693867 15A RM 2 East Floor Analyst: OJ Ivey	12x12 Peel and Stick	Blue Non-Fibrous Homogenous	9% Cellulose	91% Other	None Detected
693868 15B RM 3 East Floor Analyst: OJ Ivey	12x12 Peel and Stick	Blue Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
693869 16A RM 2 East Floor Analyst: OJ Ivey	12x12 Peel and Stick	Tan Non-Fibrous Homogenous	Trace Cellulose	90% Other	None Detected
693870 16B RM 3 East Floor Analyst: OJ Ivey	12x12 Peel and Stick	Tan Non-Fibrous Homogenous		100% Other	None Detected
693871 17A RM 2 East Floor Analyst: OJ Ivey	Linoleum	Grey Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
693872 17B RM 3 East Floor Analyst: OJ Ivey	Linoleum	Grey Non-Fibrous Homogenous	10% Cellulose	90% 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 :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693873 18A RM 5 Center Floor Analyst: OJ Ivey	Poured Concrete	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
693874 18B RM 5 North Floor Analyst: OJ Ivey	Poured Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
693875 19A Chimney In RM 5 Analyst: OJ Ivey	Stack Pipe Cement	Grey Non-Fibrous Homogenous	8% Cellulose 3% Fiberglass	81% Other	8% Chrysotile

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## Polarized Light Microscopy Asbestos Analysis Report

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

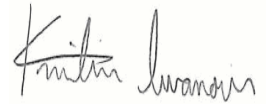
**Location :**  
 1441 Bailey St, Lansing, MI

**ETC Job :** 199863  
**Client Project :** 33-01-01-22-305-101  
**Date Collected :** 02/27/2018  
**Date Received :** 02/28/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
693876 19B Chimney In RM 5 Analyst: OJ Ivey		Not Analyzed			



Lab Supervisor/Other Signatory



Analyst: Kristina Ivanovic



Analyst: Madeline Palmer



Analyst: OJ Ivey



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

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# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/14

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199863	Building: 1441 Bailey St, Lansing					12/21/17			
01	Material: House wrap		NF	A	north wall ext house		ext	100 SF	84
	Description: green w/ silver backing			B	south wall ext house		house		
02	Material: Shingle		NF	A	east roof		ext	800 SF	9
	Description: black w/ white specs			B	west roof		house		
03	Material: Window Glaze		NF	A	north window ext		ext	16 units	10
	Description: white			B	south window ext		window		
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					
	Material: Description			A					
	Material: Description			B					

**ENVIRONMENTAL TESTING LABORATORIES, INC**

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

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 199863

<b>Client:</b> ETC	<b>Contact:</b>	<b>Project Location/Name:</b> 1441 Bailey St, Lansing MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600	<b>Client Project #:</b>
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		<b>Date Sampled:</b> 2/27/18
<b>E-mail:</b> results@2etc.com		

**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) 3 days

Point Counting: 400 Points\*  Stop at 1st Positive -  
Clearly mark Homogenous Group

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
	04A-E		
	05A-E		
	06A-C		
	07A-B		
	↓		
	19A-B		

	Date	Time
Relinquished (Name/Organization):	2/27/18	5:30 am/pm
Received (Name/ETL):	2/28/18	1:03 am/pm
Stereoscopical Analysis (Name/ETL):	2/28/18	am/pm
Sample Login (Name/ETL):	2/28/18	am/pm
Analysis (Name/ETL):	3/2/18	9:04 am/pm
QA/QC Review (Name/ETL):	3/2/18	9:04 am/pm

**Special Instructions:**

**Remarks:**

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1441 Bailey St		Date: 2/27/18		Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location			
04	Material: Plaster  grey	NF	A	Rm 8 east wall 69383	Throughout	4900 SF	
			B	Rm 7 west wall 839			
			C	Rm 11 south wall 40			
			D	Rm 9 ceiling center 41			
			E	Rm 10 ceiling center 42			
05	Material: Shim coat  white	NF	A	Rm 10 north wall 43	Throughout	4900 SF	
			B	Rm 7 west wall 44			
			C	Rm 11 south wall 45			
			D	Rm 9 ceiling center 46			
			E	Rm 10 ceiling center 47			
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

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

Revision date 5/7/2015

Job #:	199863		Building:	1946 Bailey st		Date:	2/27/18	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
50	Material: Duct wrap Description: grey	F	A	M5 South duct 48 6938	Ducts in Rm 5	50		
	Material: Description		B	M5 South duct 49		8f		
	Material: Description		C	M5 center duct 50				
	Material: Description							
	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 5/7/2015

Job #:	199863		Building:	1441 Bailey St		Date:	2/27/18	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bidg (Please List all Rooms)	Quantity	Picture #	
07	Material: floor underlayment Description: <del>grey</del> grey	NF	A	Rm 2 north floor 91	2, 3	450 SF		
08	Material: Drywall Description: white	F	B	Rm 3 west floor 92	1, 2, 3, 4	2000 SF		
09	Material: Mud Description: white	NF	A	Rm 2 east wall 93	2, 3	2000 SF		
10	Material: Tape Description: white	NF	B	Rm 3 west wall 94				
11	Material: Ceiling Tile Description: white	NF	A	Rm 3 center ceiling 95				
12	Material: Blown-In Insulation Description: grey	F	B	Rm 2 east wall 96				
13	Material: Linoleum Description: <del>white</del> yellow	NF	A	Rm 3 center ceiling 97				
14	Material: Linoleum Description: white	NF	B	Rm 2 east wall 98				
15	Material: 12x12 P&S Description: blue	NF	A	Rm 1 center ceiling 99	1	450 SF		
16	Material: 12x12 P&S Description: wood grain brown	NF	B	Rm 1 west ceiling 80	Thru out	400 SF		
			A	Rm 10 ceiling center 61				
			B	Rm 1 west wall 62				
			A	Rm 7 north floor 63	7	100 SF		
			B	Rm 7 south floor 64				
			A	Rm 2 west floor 65	2, 3	450 SF		
			B	Rm 3 east floor 66				
			A	Same as 14A	2, 3	450 SF		
			B	Same as 14B				
			A	Same as 14A	2, 3	450 SF		
			B	Same as 14B				

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Building:	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199863	1441 Bailey St							2 (27/18)	
17	Material: Linoleum		NF		A	Same as 14A	2, 3	450 SF	
	Description				B	Same as 14B			
18	Material: poured concrete		NF		A	Rm 5 center floor	5	576 SF	
	Description	grey			B	Rm 5 north floor			
19	Material: Stack pipe cement		NF		A	Chimney in Rm 5	5	4 SF	
	Description	grey			B	Chimney in Rm 5			
<del>20</del>	Material:				A				
	Description				B				
	Material:				A				
	Description				B				
	Material:				A				
	Description				B				
	Material:				A				
	Description				B				
	Material:				A				
	Description				B				
	Material:				A				
	Description				B				



Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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

Prepared by:  \_\_\_\_\_

Heather Davis, Michigan Certified Asbestos Inspector (s)  
Michigan Accreditation Number (s) A-48908

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
 3024 Turner Street  
 Lansing, MI 48906

Parcel:	33-01-01-22-351-061
House No:	1531 Bailey St, Lansing, MI 48910
Date Inspected:	1/2/2018
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1944 SF	Garage Square Footage	NA
Basement Square Footage	1944 SF	Garage Siding	NA
Siding	Aluminum	Garage Color	NA
Color	White	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-351-061  
House No. 1531 Bailey St, Lansing, MI 48910  
Date Inspected: 1/2/2018

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Tank	1	Room 10
Air Conditioners/refrigerators	3	Room 6, 10, 15
TV Screens/Monitors/ Electronics	30	Room 2-6, 10, 11, 14, 18, 19
Thermostats	1	Room 5
Air Compressor	1	Room 10

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Tires	1	Exterior

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-351-061  
 House No. 1531 Bailey St, Lansing, MI 48910  
 Date Inspected: 1/2/2018

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

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Texture, white	Room 2, 3, 6, 7, 14	1071 SF	No
2	F	Plaster, grey	Throughout	7952 SF	No
3	F	Skim , white	Throughout	7952 SF	No
<b>4</b>	<b>F</b>	<b>Duct wrap, white</b>	<b>Room 3, 4, 10, 14, 16</b>	<b>12 SF</b>	<b>YES</b>
5	F	Tape, white	Throughout	24 SF	No
6	F	Mud, grey	Throughout	24 SF	No
7	NF	Drywall, white	Room 2,4, 6-9, 12-14, 16	2028 SF	No
8	NF	12x12 Self stick, black	Room 7	384 SF	No
9	NF	Fiberboard, tan	Room 8	480 SF	No
10	NF	12x12 Tile, grey	Room 1	384 SF	No
11	NF	Mastic, tan	Room 1	384 SF	No
12	NF	Fiber backing, black	Room 1	384 SF	No
13	NF	12x12 Self stick, tan	Room 7	384 SF	No
14	NF	Linoleum	Room 6	528 SF	No
15	NF	12x12 Self stick, grey	Room 6	528 SF	No
<b>16</b>	<b>NF</b>	<b>Linoleum, white/tan</b>	<b>Room 9</b>	<b>384 SF</b>	<b>YES</b>
17	NF	Backing, brown	Room 9	384 SF	No
18	NF	Linoleum, multi	Room 8	480 SF	No
19	NF	Fiber backing, black	Room 8	480 SF	No
20	NF	Cover base, white	Room 6	528 SF	No
21	NF	Mastic, clear	Room 6	528 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.

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-351-061  
 House No. 1531 Bailey St, Lansing, MI 48910  
 Date Inspected: 1/2/2018

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

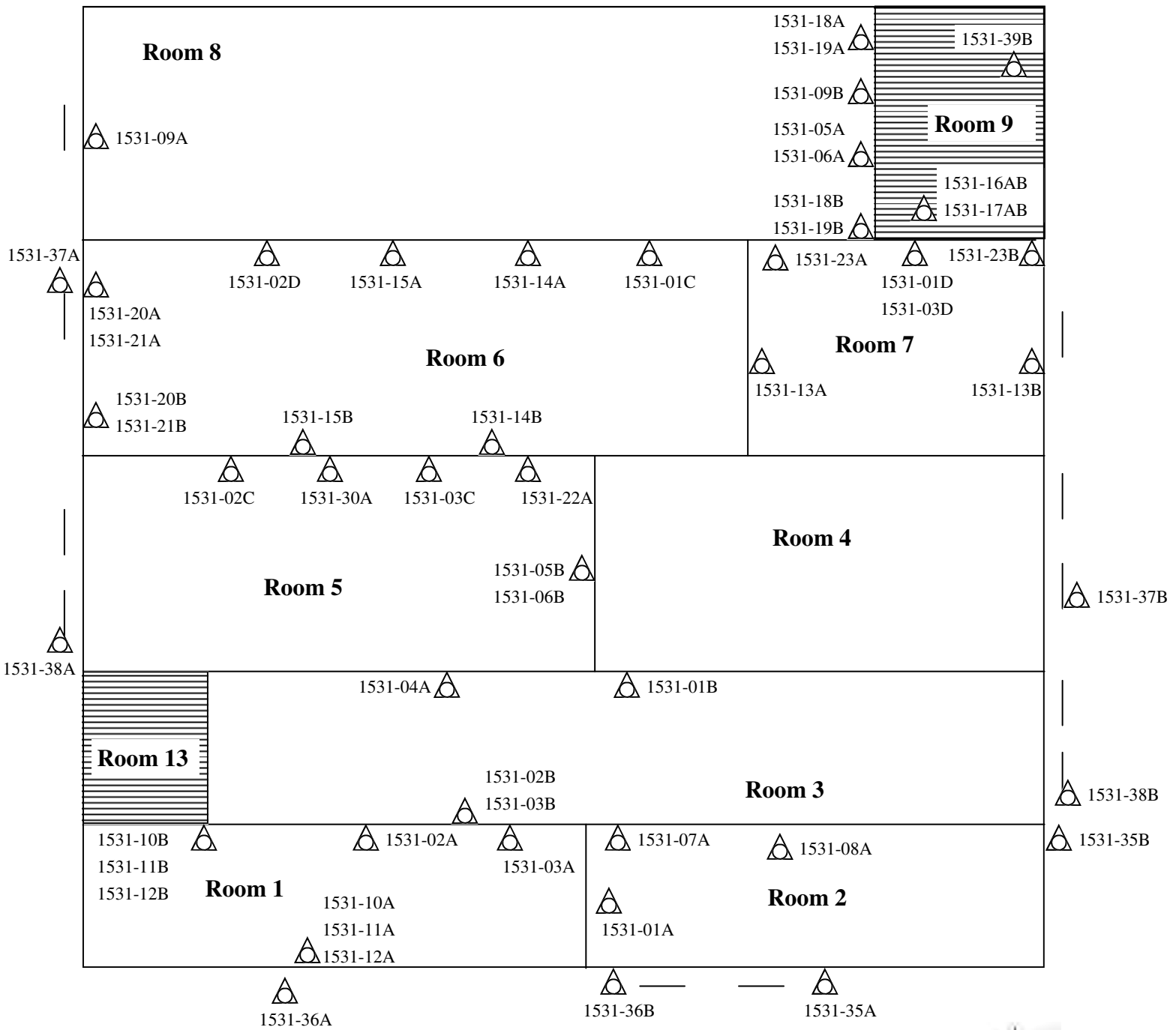
<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
22	NF	Ceiling tile, white dots	Rooms 5, 17	912 SF	No
23	NF	Glue pods, tan	Room 7	384 SF	No
24	NF	Fiberboard, brown/white	Room 10	1056 SF	No
25	NF	Chimney brick, tan	Room 10	128 SF	No
26	NF	Stack mortar, grey/white	Room 10	60 SF	No
27	NF	Cinderblock, grey	Room 9-12	1944 SF	No
28	NF	Block mortar, grey	Room 9-12	66 SF	No
29	NF	Poured cement, grey	Room 10-12	1944 SF	No
30	NF	Ceiling tile, white stripes	Room 5, 17	912 SF	No
31	NF	Fiberboard, brown	Room 18	576 SF	No
32	NF	12x12 Tile, tan/multi	Room 17	336 SF	No
33	NF	Mastic, yellow	Room 17	336 SF	No
34	F	Insulated wall board, black	Room 14	176 SF	No
35	NF	Insulated board, black	Exterior	1944 SF	No
36	NF	Asphalt shingle, black	Exterior	1944 SF	No
37	NF	Window caulk, white	Exterior	4 SF	No
38	NF	Window glaze, white	Exterior	4 SF	No
39	F	Blown-in-insulation, grey	Rooms 9, 20	4 SF	No

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

Attachment:

Site Drawing

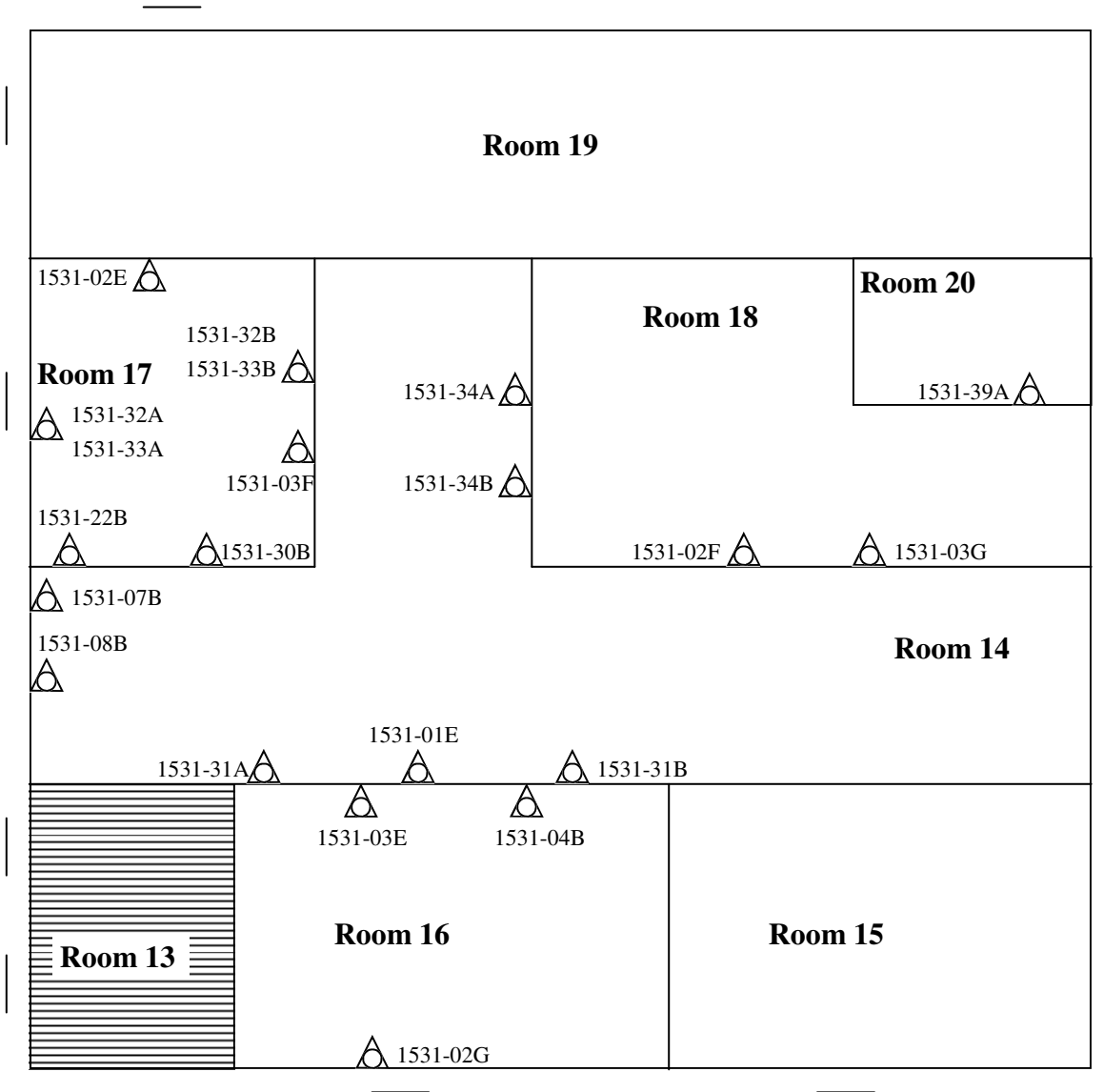





 Sample Location

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

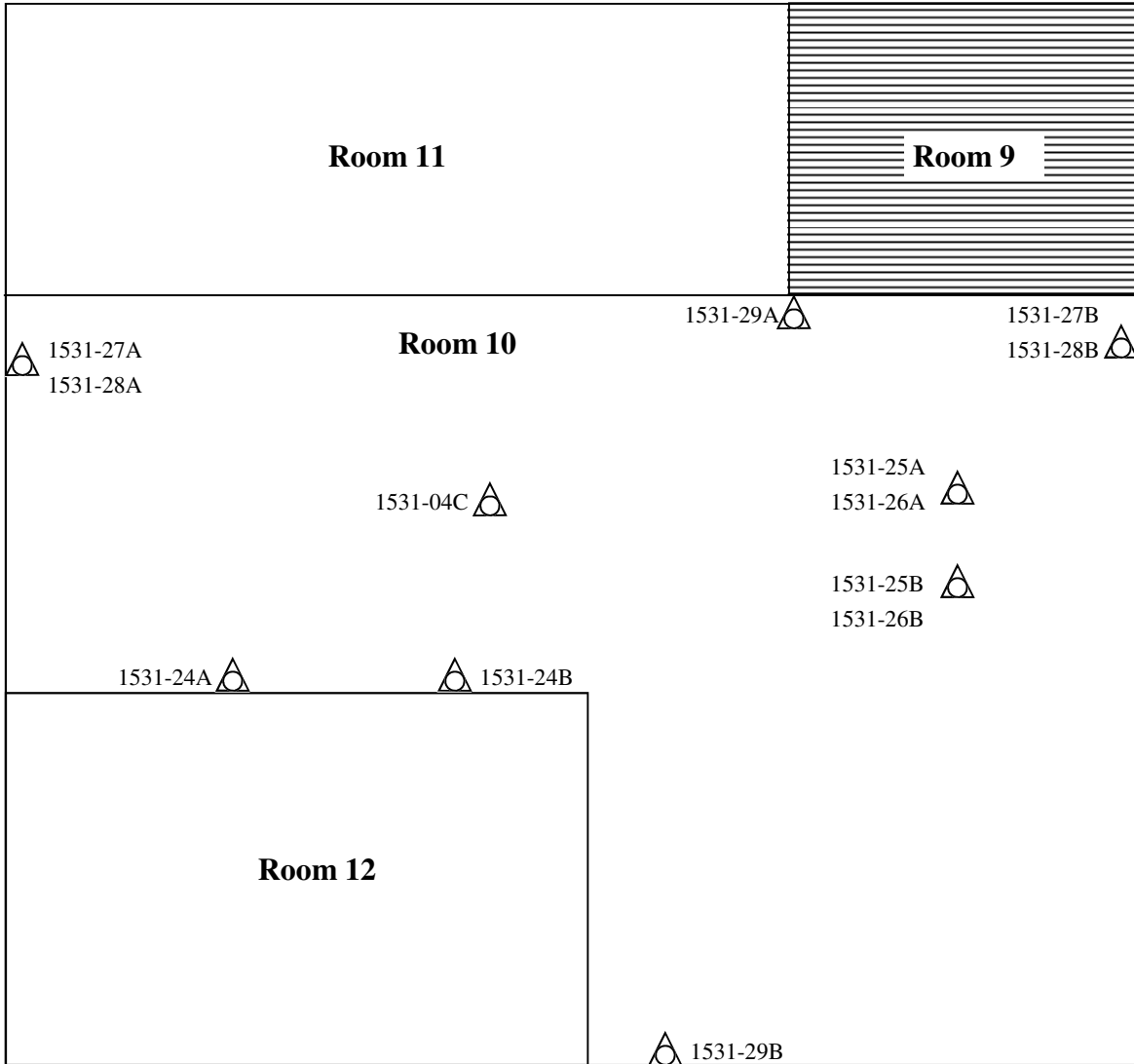





 Sample Location

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





 Sample Location

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

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-22-351-061  
House No. 1531 Bailey St, Lansing, MI 48910  
Date Inspected: 1/2/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-351-061  
House No. 1531 Bailey St, Lansing, MI 48910  
Date Inspected: 1/2/2018



Hot Water Tank



Air Conditioners/refrigerators



TV Screens/Monitors/Electronics



Thermostats

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-351-061
House No.	1531 Bailey St, Lansing, MI 48910
Date Inspected:	1/2/2018



Tires



Air Compressor

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-22-351-061  
House No. 1531 Bailey St, Lansing, MI 48910  
Date Inspected: 1/2/2018



Duct wrap, white



Linoleum, white/tan



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 :  
1531 Bailey St, Lansing, MI

**Attention :**

Client Project : 33-01-01-22-351-061

ETC Job : 199864

Report Date : 1/4/2018

Login #	Sample ID	Work Requested	Completed
645175	01A	Asbestos Analysis	01/04/2018
645176	01B	Asbestos Analysis	01/04/2018
645177	01C	Asbestos Analysis	01/04/2018
645178	01D	Asbestos Analysis	01/04/2018
645179	01E	Asbestos Analysis	01/04/2018
645180	02A	Asbestos Analysis	01/04/2018
645181	02B	Asbestos Analysis	01/04/2018
645182	02C	Asbestos Analysis	01/04/2018
645183	02D	Asbestos Analysis	01/04/2018
645184	02E	Asbestos Analysis	01/04/2018
645185	02F	Asbestos Analysis	01/04/2018
645186	02G	Asbestos Analysis	01/04/2018
645187	03A	Asbestos Analysis	01/04/2018
645188	03B	Asbestos Analysis	01/04/2018
645189	03C	Asbestos Analysis	01/04/2018
645190	03D	Asbestos Analysis	01/04/2018
645191	03E	Asbestos Analysis	01/04/2018
645192	03F	Asbestos Analysis	01/04/2018
645193	03G	Asbestos Analysis	01/04/2018
645194	04A	Asbestos Analysis	01/04/2018

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<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
645195	04B	Asbestos Analysis	01/04/2018
645196	04C	Asbestos Analysis	01/04/2018
645197	05A	Asbestos Analysis	01/04/2018
645198	05B	Asbestos Analysis	01/04/2018
645199	06A	Asbestos Analysis	01/04/2018
645200	06B	Asbestos Analysis	01/04/2018
645201	07A	Asbestos Analysis	01/04/2018
645202	07B	Asbestos Analysis	01/04/2018
645203	08A	Asbestos Analysis	01/04/2018
645204	08B	Asbestos Analysis	01/04/2018
645205	09A	Asbestos Analysis	01/04/2018
645206	09B	Asbestos Analysis	01/04/2018
645207	10A	Asbestos Analysis	01/04/2018
645208	10B	Asbestos Analysis	01/04/2018
645209	11A	Asbestos Analysis	01/04/2018
645210	11B	Asbestos Analysis	01/04/2018
645211	12A	Asbestos Analysis	01/04/2018
645212	12B	Asbestos Analysis	01/04/2018
645213	13A	Asbestos Analysis	01/04/2018
645214	13B	Asbestos Analysis	01/04/2018
645215	14A	Asbestos Analysis	01/04/2018
645216	14B	Asbestos Analysis	01/04/2018
645217	15A	Asbestos Analysis	01/04/2018
645218	15B	Asbestos Analysis	01/04/2018
645219	16A	Asbestos Analysis	01/04/2018
645220	16B	Asbestos Analysis	01/04/2018
645221	17A	Asbestos Analysis	01/04/2018

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Login #	Sample ID	Work Requested	Completed
645222	17B	Asbestos Analysis	01/04/2018
645223	18A	Asbestos Analysis	01/04/2018
645224	18B	Asbestos Analysis	01/04/2018
645225	19A	Asbestos Analysis	01/04/2018
645226	19B	Asbestos Analysis	01/04/2018
645227	20A	Asbestos Analysis	01/04/2018
645228	20B	Asbestos Analysis	01/04/2018
645229	21A	Asbestos Analysis	01/04/2018
645230	21B	Asbestos Analysis	01/04/2018
645231	22A	Asbestos Analysis	01/04/2018
645232	22B	Asbestos Analysis	01/04/2018
645233	23A	Asbestos Analysis	01/04/2018
645234	23B	Asbestos Analysis	01/04/2018
645235	24A	Asbestos Analysis	01/04/2018
645236	24B	Asbestos Analysis	01/04/2018
645237	25A	Asbestos Analysis	01/04/2018
645238	25B	Asbestos Analysis	01/04/2018
645239	26A	Asbestos Analysis	01/04/2018
645240	26B	Asbestos Analysis	01/04/2018
645241	27A	Asbestos Analysis	01/04/2018
645242	27B	Asbestos Analysis	01/04/2018
645243	28A	Asbestos Analysis	01/04/2018
645244	28B	Asbestos Analysis	01/04/2018
645245	29A	Asbestos Analysis	01/04/2018
645246	29B	Asbestos Analysis	01/04/2018
645247	30A	Asbestos Analysis	01/04/2018
645248	30B	Asbestos Analysis	01/04/2018

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Login #	Sample ID	Work Requested	Completed
645249	31A	Asbestos Analysis	01/04/2018
645250	31B	Asbestos Analysis	01/04/2018
645251	32A	Asbestos Analysis	01/04/2018
645252	32B	Asbestos Analysis	01/04/2018
645253	33A	Asbestos Analysis	01/04/2018
645254	33B	Asbestos Analysis	01/04/2018
645255	34A	Asbestos Analysis	01/04/2018
645256	34B	Asbestos Analysis	01/04/2018
645257	35A	Asbestos Analysis	01/04/2018
645258	35B	Asbestos Analysis	01/04/2018
645259	36A	Asbestos Analysis	01/04/2018
645260	36B	Asbestos Analysis	01/04/2018
645261	37A	Asbestos Analysis	01/04/2018
645262	37B	Asbestos Analysis	01/04/2018
645263	38A	Asbestos Analysis	01/04/2018
645264	38B	Asbestos Analysis	01/04/2018
645265	39A	Asbestos Analysis	01/04/2018
645266	39B	Asbestos Analysis	01/04/2018

Reviewed by:



Quality Assurance Coordinator

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645175 01A 2 Ceiling N Analyst: OJ Ivey	Texture	Grey Non-Fibrous Homogenous	1.5% Cellulose	98% Other	PC 0.5% Chrysotile
645176 01B 3 Ceiling N Analyst: OJ Ivey	Texture	Grey Non-Fibrous Homogenous	0.5% Cellulose	99.5% Other	PC None Detected
645177 01C 6 Ceiling N Analyst: OJ Ivey	Texture	Grey Non-Fibrous Homogenous	0.25% Cellulose	99.5% Other	PC 0.25% Chrysotile
645178 01D 7 Ceiling N Analyst: OJ Ivey	Texture	Grey Non-Fibrous Homogenous		100% Other	PC None Detected
645179 01E 14 Wall S Analyst: OJ Ivey	Texture	Grey Non-Fibrous Homogenous		99.75% Other	PC 0.25% Chrysotile
645180 02A 1 N Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous		99.5% Other	PC 0.5% Actinolite
645181 02B 2 S Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	1.25% Cellulose	98.5% Other	PC 0.25% Actinolite

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

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 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645182 02C 5 N Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	0.5% Cellulose	99.5% Other	PC None Detected
645183 02D 6 N Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	97.25% Other	PC 0.75% Actinolite
645184 02E 17 N Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous		100% Other	PC None Detected
645185 02F 18 S Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	0.5% Cellulose	99.5% Other	PC None Detected
645186 02G 16 W Wall Analyst: OJ Ivey	Plaster	Grey Non-Fibrous Homogenous	0.25% Cellulose	99.75% Other	PC None Detected
645187 03A Wall 1 N Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645188 03B Wall 2 S Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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**Polarized Light Microscopy Asbestos Analysis Report**

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 Romulus, MI 48174

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 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645189 03C Wall 5 N Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645190 03D Wall 6 N Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645191 03E Wall 16 N Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645192 03F Wall 17 S Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645193 03G Wall 18 W Analyst: OJ Ivey	Skim	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
645194 04A 3 N Floor Analyst: OJ Ivey	Duct Wrap	Grey Fibrous Homogenous	30% Cellulose	25% Other	45% Chrysotile
645195 04B 16 E Floor Analyst: OJ Ivey		Not Analyzed			

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

**Location :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645196 04C 10 Middle of Room on Heater Analyst: OJ Ivey		Not Analyzed			
645197 05A 8 S Wall Analyst: OJ Ivey	Tape	White Fibrous Homogenous	40% Cellulose	60% Other	None Detected
645198 05B 5 S Wall Analyst: OJ Ivey	Tape	White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
645199 06A 8 S Wall Analyst: OJ Ivey	Mud	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645200 06B 5 S Wall Analyst: OJ Ivey	Mud	Grey Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645201 07A 2 N Wall Analyst: OJ Ivey	Drywall	White Fibrous Homogenous	10% Cellulose	90% Other	None Detected
645202 07B 14 N Wall Analyst: OJ Ivey	Drywall	White Fibrous Homogenous	10% Cellulose	90% 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645203 08A N Floor Analyst: OJ Ivey	12x12 Self Stick	Black Non-Fibrous Homogenous		100% Other	None Detected
645204 08B E Floor Analyst: OJ Ivey	12x12 Self Stick	Black Non-Fibrous Homogenous		100% Other	None Detected
645205 09A W N Floor Analyst: OJ Ivey	Fiber Board	Tan Fibrous Homogenous	75% Cellulose	25% Other	None Detected
645206 09B W E Floor Analyst: OJ Ivey	Fiber Board	Tan Fibrous Homogenous	80% Cellulose	20% Other	None Detected
645207 10A 1 W Floor Analyst: OJ Ivey	12x12 Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
645208 10B 1 E Floor Analyst: OJ Ivey	12x12 Tile	Grey Non-Fibrous Homogenous		100% Other	None Detected
645209 11A 1 W Floor Analyst: OJ Ivey	Mastic	Tan Non-Fibrous Homogenous	3% Cellulose	97% 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645210 11B 1 E Floor Analyst: OJ Ivey	Mastic	Tan Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645211 12A 1 W Floor Analyst: OJ Ivey	Fiber Backing	Black Fibrous Homogenous	30% Cellulose	70% Other	None Detected
645212 12B 1 E Floor Analyst: OJ Ivey	Fiber Backing	Black Fibrous Homogenous	40% Cellulose	60% Other	None Detected
645213 13A N 7 Floor Analyst: OJ Ivey	12x12 Self Stick	Pink/Tan Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645214 13B E 7 Floor Analyst: OJ Ivey	12x12 Self Stick	Pink/Tan Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645215 14A E 6 Floor Analyst: OJ Ivey	Linoleum	Brown/Tan Fibrous Homogenous	6% Cellulose 3% Fiberglass	91% Other	None Detected
645216 14B W 6 Floor Analyst: OJ Ivey	Linoleum	Brown/Tan Fibrous Homogenous	4% Cellulose 2% Fiberglass	94% 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645217 15A 6 E Floor Analyst: OJ Ivey	12x12 Self Stick	Grey Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645218 15B 6 W Floor Layer-1 Analyst: OJ Ivey	12x12 Self Stick	Grey Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645218 15B 6 W Floor Layer-2 Analyst: OJ Ivey	Mastic	Tan Non-Fibrous Homogenous		100% Other	None Detected
645219 16A 9 W Floor Analyst: OJ Ivey	Linoleum	Grey Fibrous Homogenous	20% Cellulose	50% Other	30% Chrysotile
645220 16B 9 W Floor Analyst: OJ Ivey		Not Analyzed			
645221 17A 9 W Floor Analyst: OJ Ivey	Backing	Brown Fibrous Homogenous	65% Cellulose	35% Other	None Detected
645222 17B 9 W Floor Analyst: OJ Ivey	Backing	Brown Fibrous Homogenous	70% Cellulose	30% 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645223 18A SE 8 Floor Analyst: OJ Ivey	Linoleum	Multi-Colored Fibrous Homogenous	10% Cellulose	90% Other	None Detected
645224 18B SW 8 Floor Analyst: OJ Ivey	Linoleum	Multi-Colored Fibrous Homogenous	15% Cellulose	85% Other	None Detected
645225 19A SE 8 Floor Analyst: OJ Ivey	Fiber Backing	Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected
645226 19B SW 8 Floor Analyst: OJ Ivey	Fiber Backing	Black Fibrous Homogenous	75% Cellulose	25% Other	None Detected
645227 20A 6 NE Floor Analyst: OJ Ivey	Cove Base	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645228 20B 6 NW Floor Analyst: OJ Ivey	Cove Base	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645229 21A 6 NE Floor Analyst: OJ Ivey	Mastic	Clear 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645230 21B 6 NW Floor Analyst: OJ Ivey	Mastic	Clear Non-Fibrous Homogenous		100% Other	None Detected
645231 22A 5 E Ceiling Analyst: OJ Ivey	Ceiling Tile	Grey Fibrous Homogenous	30% Cellulose 50% Fiberglass	20% Other	None Detected
645232 22B 17 W Ceiling Analyst: OJ Ivey	Ceiling Tile	Grey Fibrous Homogenous	45% Fiberglass 30% Cellulose	25% Other	None Detected
645233 23A 7 E Wall Analyst: OJ Ivey	Glue Pods	Tan Non-Fibrous Homogenous		99.75% Other	PC 0.25% Chrysotile
645234 23B 7 E Wall Analyst: OJ Ivey	Glue Pods	Tan Non-Fibrous Homogenous		99.5% Other	PC 0.5% Chrysotile
645235 24A 10 W Wall Analyst: OJ Ivey	Fiber Board	Brown/White Fibrous Homogenous	100% Cellulose		None Detected
645236 24B 10 W Wall Analyst: OJ Ivey	Fiber Board	Brown/White 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645237 25A 10 S Chimney Analyst: OJ Ivey	Chimney Brick	Tan Non-Fibrous Homogenous		100% Other	PC None Detected
645238 25B 10 S Chimney Analyst: OJ Ivey	Chimney Brick	Tan Non-Fibrous Homogenous		100% Other	PC None Detected
645239 26A 10 S Chimney Analyst: OJ Ivey	Stack Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645240 26B 10 S Chimney Analyst: OJ Ivey	Stack Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
645241 27A 10 N Wall Analyst: OJ Ivey	Cinder Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645242 27B 10 S Wall Analyst: OJ Ivey	Cinder Block	Grey Non-Fibrous Homogenous	Trace Cellulose	100% Other	None Detected
645243 28A 10 N Wall Analyst: OJ Ivey	Block Mortar	Grey 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 :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645244 28B 10 S Wall Analyst: OJ Ivey	Block Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
645245 29A 10 E Floor Analyst: Jessica Dilworth	Poured Cement	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
645246 29B 10 W Floor Analyst: Jessica Dilworth	Poured Cement	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
645247 30A 5 E Ceiling Analyst: Jessica Dilworth	Ceiling Tile	White Fibrous Homogenous	65% Cellulose 6% Fiberglass	29% Other	None Detected
645248 30B 17 W Ceiling Analyst: Jessica Dilworth	Ceiling Tile	White Fibrous Homogenous	65% Cellulose 5% Fiberglass	30% Other	None Detected
645249 31A 14 NW Wall Analyst: Jessica Dilworth	Fiber Board	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
645250 31B 14 SW Wall Analyst: Jessica Dilworth	Fiber Board	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

**Location :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645251 32A 17 N Floor Analyst: Jessica Dilworth	12x12 Tile	Beige Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
645252 32B 17 S Floor Analyst: Jessica Dilworth	12x12 Tile	Beige Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
645253 33A 17 N Floor Analyst: Jessica Dilworth	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
645254 33B 17 S Floor Analyst: Jessica Dilworth	Mastic	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
645255 34A 14 SE Wall Analyst: Jessica Dilworth	Insulated Wall Board	Dark Brown Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
645256 34B 14 SW Wall Analyst: Jessica Dilworth	Insulated Wall Board	Dark Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
645257 35A Ext W Wall Analyst: Jessica Dilworth	Insulated Wall Board	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 38900 Huron River Drive  
 Romulus, MI 48174

**Location :**  
 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645258 35B Ext S Wall Analyst: Jessica Dilworth	Insulated Wall Board	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected
645259 36A NW Ext Roof Analyst: Jessica Dilworth	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
645260 36B SW Ext Roof Analyst: Jessica Dilworth	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
645261 37A N Window Ext Analyst: Jessica Dilworth	Window Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
645262 37B S Windows Ext Analyst: Jessica Dilworth	Window Caulk	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
645263 38A N Window Ext Analyst: Jessica Dilworth	Window Glaze	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
645264 38B S Windows Ext Analyst: Jessica Dilworth	Window Glaze	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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 38900 Huron River Drive  
 Romulus, MI 48174

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 1531 Bailey St, Lansing, MI

**ETC Job :** 199864  
**Client Project :** 33-01-01-22-351-061  
**Date Collected :** 01/02/2018  
**Date Received :** 01/03/2018  
**Date Analyzed :** 01/04/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
645265 39A 20 W Steps Analyst: Jessica Dilworth	Blown-In Insulation	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
645266 39B 9 S Wall Analyst: Jessica Dilworth	Blown-In Insulation	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Jessica Dilworth



Analyst: OJ Ivey

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 #: 1998604

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/Name:</b> 1531 Bailey, Lansing
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etl.com	
<b>Please Provide Results:</b> <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		<b>Client Project #:</b> 199864 <b>Date Sampled:</b> 1/2/2018

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

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

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 ABCDEF		
	02 ABCDEF		
	03 ABCDEF		
	05 AB		
	↓		
	39 AB		

	Date	Time
Relinquished (Name/Organization): Eric Wilke	1/2/2018	
Received (Name/ETL): Brittany Walls	1/3/18	1:59 am/pm
Stereoscopy Analysis (Name/ETL): Julie J. [unclear] Jessica Hill	1-3-18	5:21 am/pm
Sample Login (Name/ETL): Brittany Walls	1/3/18	2:35 am/pm
Analysis (Name/ETL): Julie J. [unclear] Jessica Hill	1-3-18	5:21 am/pm
QA/QC Review (Name/ETL): Brittany Walls	1/4/18	11:36 am/pm

**Special Instructions:** Please Count any Positive Less than 2%  
**Remarks:**

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1531 Bailey		Date: 1/2/19	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: Texture White	Y	A	2 Ceiling N	2/3/6/9 14		
			B	3 Ceiling N			176
			C	6 Ceiling N			177
			D	7 Ceiling N			178
			E	14 Wall S			179
02	Material: Paster Grey	Y	A	1 N Wall	throughout		
			B	2 S Wall			180
			C	5 N Wall			181
			D	6 N Wall			182
			E	17 N Wall			183
			F	18 S Wall			184
			G	16 W Wall			185
03	Material: Skin White	Y	A	1 N Wall	throughout		
			B	2 S Wall			186
			C	3 S Wall			187
			D	4 S Wall			188
			E	6 N Wall			189
			F	16 N Wall			190
			G	17 S Wall			191
				192			
					193		

<1000 SF = 3 samples

1000 - <5000 = 5 samples

pg 2

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

Revision date 5/7/2015

Job #:	Building:				Date:			
	Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
04	Material: Duct wrap Description: white	Y	A	3 N Floor	645194	3/4/10		
	Material: Description		B	16 E Floor	195	10/14		
	Material: Description		C	10 middle of Room on 1st floor				
	Material: Description							
	Material: Description							
	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 5/7/2015

Job #:	Material no.	Material Description	Building: 1531 Bailey Lansing		Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
			Friable (F) / Non-Friable (NF)							
05	Material: Tape		✓		A	8 S Wall	1/2/19	throughout		
	Description	white			B	SS Wall				
06	Material: mudd		✓		A	8 S Wall	198	throughout		
	Description	Grey			B	SS Wall				
07	Material: Dry wall		N		A	2 N Wall	200	throughout		
	Description	white			B	14 N Wall				
08	Material: Fiber Board 12x12 Self stick		N		A	N Floor	202	2/4/6/8/9		
	Description	Block			B	N Floor				
09	Material: <del>Block</del>		N		A	E Floor	203	9/11/12/14/13/16	7	
	Description	Fiber board / tan			B	E Floor				
10	Material: 12 X 12 tile		N		A	N Floor	204	8		
	Description	grey			B	E Floor				
11	Material: mastic		N		A	W Floor	205	1		
	Description	tan			B	E Floor				
12	Material: Fiber Backing		N		A	W Floor	206	1		
	Description	Block			B	E Floor				
13	Material: 12 X 12 Self stick		N		A	W Floor	207	1		
	Description	tan			B	E Floor				
14	Material: Linoleum		N		A	W Floor	208	1		
	Description	Brown / tan			B	E Floor				
	Material: 12 X 12 Self stick		N		A	W Floor	209	1		
	Description	tan			B	E Floor				
	Material: Fiber Backing		N		A	W Floor	210	1		
	Description	Block			B	E Floor				
	Material: 12 X 12 Self stick		N		A	W Floor	211	1		
	Description	tan			B	E Floor				
	Material: Linoleum		N		A	N 7 Floor	212	1		
	Description	Brown / tan			B	E 7 Floor				
	Material: 12 X 12 Self stick		N		A	E 6 Floor	213	1		
	Description	tan			B	E 6 Floor				
	Material: Linoleum		N		A	W 6 Floor	214	1		
	Description	Brown / tan			B	W 6 Floor				
	Material: 12 X 12 Self stick		N		A	W 6 Floor	215	1		
	Description	tan			B	W 6 Floor				
	Material: Linoleum		N		A	W 6 Floor	216	1		
	Description	Brown / tan			B	W 6 Floor				

2 samples

24

# Asbestos Material Sampling Summary Sheet Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
15	Material: 12 x 12 Self Stic Description: Gray	N	A	6 E Floor	645017	6		
16	Material: Linselen Description: White/tan	N	A	9 West floor	218	9		
17	Material: Backing Description: Brown	N	A	9 West floor	219	9		
18	Material: Linselen Description: white	N	A	9 West floor	220	9		
19	Material: Fiber Backing Description: Black	N	A	9 West floor	221	9		
20	Material: Cove Base Description: white	N	A	SE 8 floor	222	8		
21	Material: mastic Description: Clear	N	A	SW 8 floor	223	8		
22	Material: Ceiling tile Description: White Dots	N	A	SE 8 floor	224	8		
23	Material: Glue Pads Description: tan	N	A	SW 8 floor	225	8		
24	Material: fiber Board Description: Brown/white	N	A	NE floor	226	6		
		N	A	NW floor	227	6		
		N	A	NE floor	228	6		
		N	A	NW floor	229	6		
		N	A	E ceiling	230	5		
		N	A	W ceiling	231	5		
		N	A	E wall	232	5		
		N	A	E wall	233	7		
		N	A	W wall	234	10		
		N	A	W wall	235	10		
		N	A	W wall	236	10		

Job #: 1998601

Building: 1531 Bailey

Date: 1998604



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

Revision date 5/7/2015

Job #:	Material no.	Material Description	Building:	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199864			1531 Bailey				1/2/18			
25		Material: Chimney Brick Description: tan		N	A	10 S chimney	645237	10		
		Material: Stack mortar Description: Gray/white		N	B	10 S chimney	238			
27		Material: Cinder Block Description: Grey		N	A	10 S chimney	239	10		
		Material: Block mortar Description: Grey		N	B	10 N wall	241			
28		Material: Block mortar Description: Grey		N	A	10 S wall	242	10/4/12/9		
		Material: Poured Cement Description: Grey		N	B	10 N wall	243	10/4/12/9		
29		Material: Poured Cement Description: Grey		N	A	10 S wall	244			
		Material: Ceiling tile stripes Description: white stripes		N	B	10 E floor	245	10/11/12		
30		Material: Ceiling tile stripes Description: white stripes		N	A	10 W floor	246			
		Material: fiber Board Description: Brown		N	B	5 E ceiling	247			
31		Material: fiber Board Description: Brown		N	A	17 W ceiling	248	5/1/17		
		Material: 12X12 tile Description: tan / multi		N	B	14 NW wall	249	14		
32		Material: mastic Description: yellow		N	A	14 SW wall	250			
		Material: mastic Description: yellow		N	B	17 N floor	251	17		
33		Material: Insulated wall Board Description: Black		N	A	17 S floor	252			
		Material: Insulated wall Board Description: Black		N	B	17 N floor	253	17		
34		Material: Insulated wall Board Description: Black		Y	A	19 S floor	254			
		Material: Insulated wall Board Description: Black		Y	B	14 BE wall	255	14		
		Material: Insulated wall Board Description: Black		Y	A	14 SW wall	256			

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
199804	1531 Bailey, Lansing					1/2/18			
35	Material: insuliation Board		N	A	ext W Wall		ext		
	Description: Black			B	ext S Wall				
36	Material: Ashphalt shingles		N	A	NW ext roof		ext		
	Description: Black			B	SFD ext roof		Roof		
37	Material: Window Cynk		N	A	N windows ext		ext windows	4	
	Description: White			B	S windows ext				
38	Material: Window Gloze		N	A	N windows ext		ext windows	4	
	Description: White			B	S windows ext				
39	Material: Blomn in		Y	A	20 W steps		as/19	4	
	Description: Gray			B	9 S Wall				
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					
	Material: Description			A					
	Description			B					

Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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



Prepared by: \_\_\_\_\_

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-22-354-041
House No:	1711 Bailey St, Lansing, MI 48910
Date Inspected:	3/1/2018
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	2	Garage	Detached
Square Footage	1050 SF	Garage Square Footage	450 SF
Basement Square Footage	450 SF	Garage Siding	Vinyl
Siding	Vinyl	Garage Color	Grey
Color	Grey	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: 33-01-01-22-354-041  
House No. 1711 Bailey St, Lansing, MI 48910  
Date Inspected: 3/1/2018

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Fire Extinguishers	1	Room 4
Paint Cans	4	Room 8
Smoke Detectors	5	Room 2, 7, 9, 10, 12
Thermostats	1	Room 3
Florescent Light Bulbs	2	Room 13

## TIRE(s) REPORT

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

None observed above household quantities

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-22-354-041
House No.	1711 Bailey St, Lansing, MI 48910
Date Inspected:	3/1/2018

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

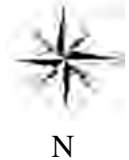
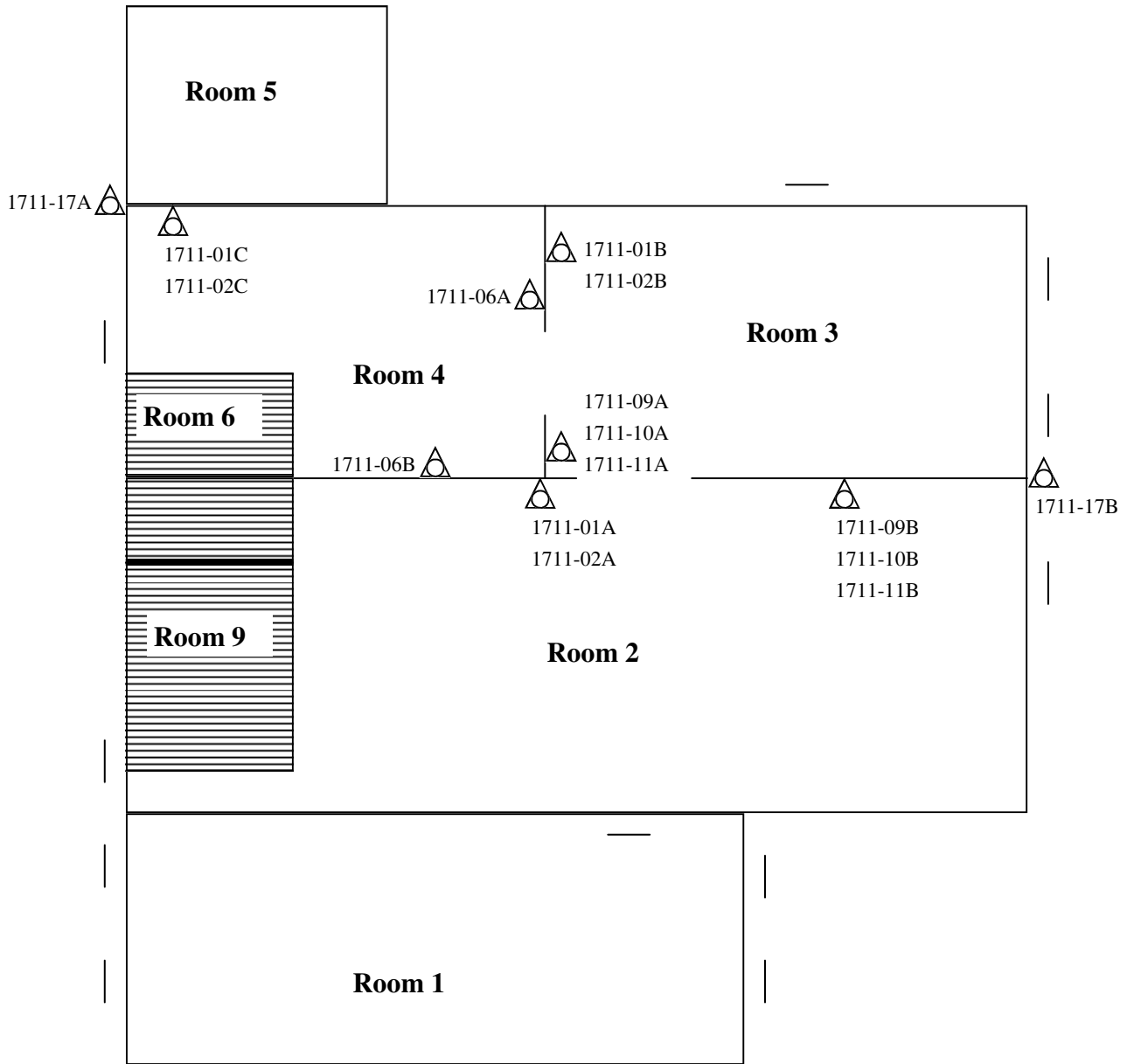
<b>Material #</b>	<b>Friable (F) / Non-Friable (NF)</b>	<b>Material Description</b>	<b>Material Location</b>	<b>Estimated Quantity</b>	<b>ACM Present</b>
1	NF	Plaster, grey	Throughout	3700 SF	No
2	NF	Skim coat, white	Throughout	3700 SF	No
3	NF	Texture, white	Room 10, 12, 13	450 SF	No
<b>4</b>	<b>F</b>	<b>Duct wrap, grey</b>	<b>Throughout</b>	<b>200 SF</b>	<b>YES</b>
<b>5</b>	<b>NF</b>	<b>Window glaze, beige</b>	<b>Exterior (basement, attic)</b>	<b>5 windows</b>	<b>YES</b>
6	NF	Linoleum, brown squares	Room 4	96 SF	No
7	NF	Linoleum, cream	Room 11	64 SF	No
8	NF	Mastic, yellow	Room 11	64 SF	No
9	F	Drywall, white	Throughout	3700 SF	No
10	NF	Tape, white	Throughout	3700 SF	No
<b>11</b>	<b>F</b>	<b>Mud, white</b>	<b>Throughout</b>	<b>3700 SF</b>	<b>YES</b>
12	F	Blown-in-insulation, grey	Throughout	3700 SF	No
<b>13</b>	<b>NF</b>	<b>Chimney stack pipe cement, grey</b>	<b>Room 7</b>	<b>4 SF</b>	<b>YES</b>
14	NF	Poured concrete, grey	Room 7, 8	450 SF	No
15	NF	Roofing shingles multiple layers, black/grey	Exterior, attic	2000 SF	No
16	NF	Tar paper, black	Exterior	2000 SF	No
17	NF	House wrap, tan	Exterior (house)	1200 SF	No


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



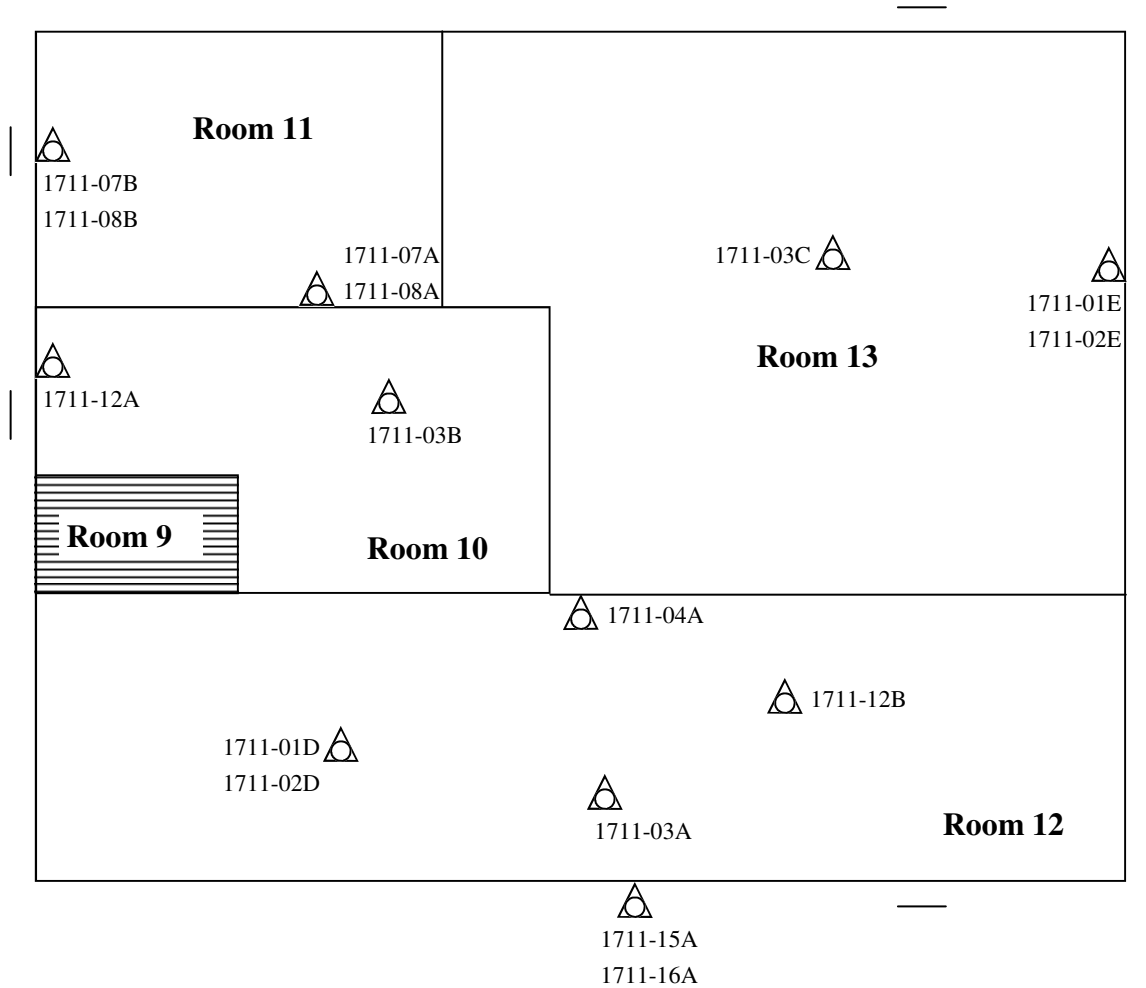
Attachment:


Site Drawing



 Sample Location

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

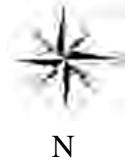
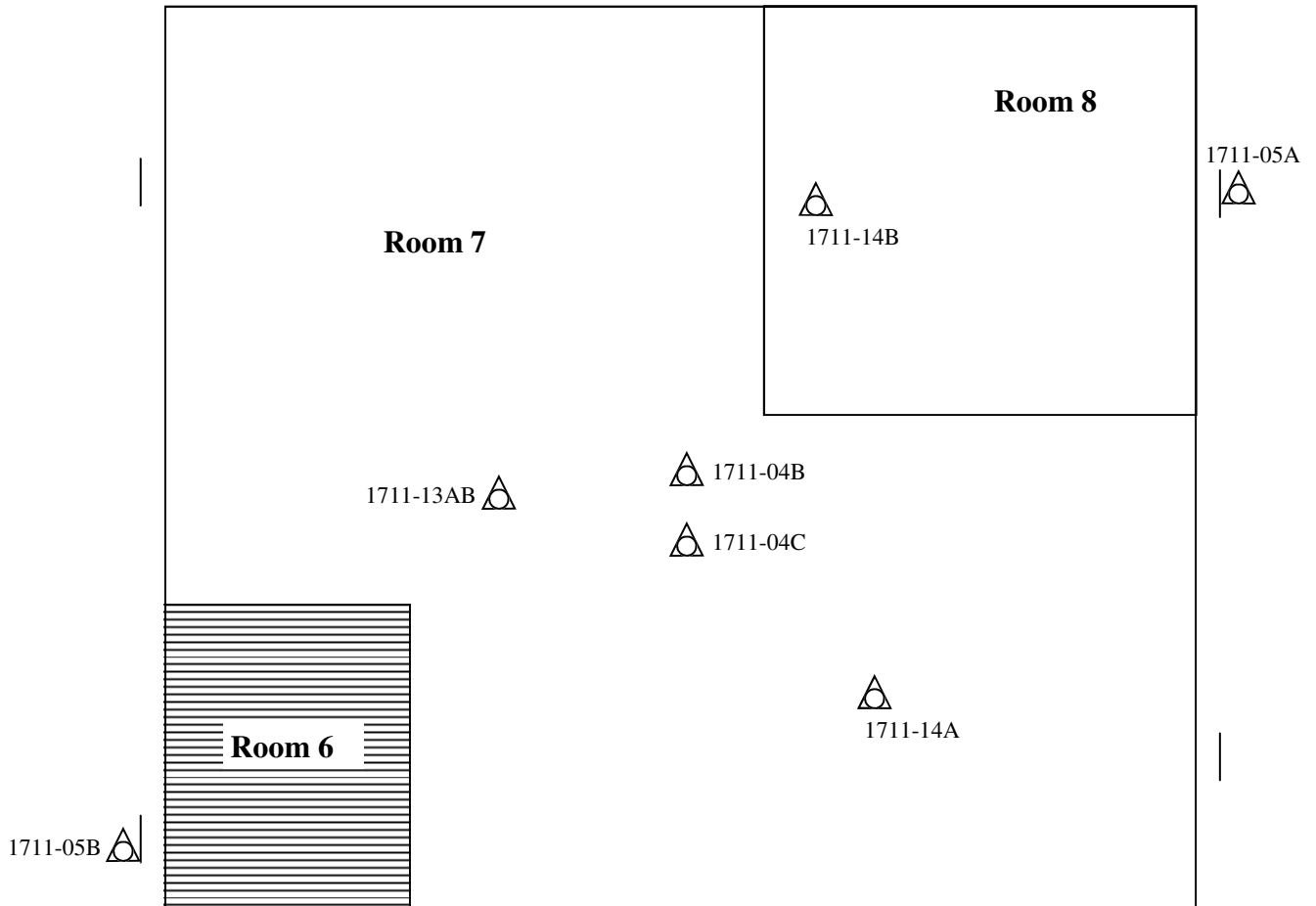


 Sample Location

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

**Basement**

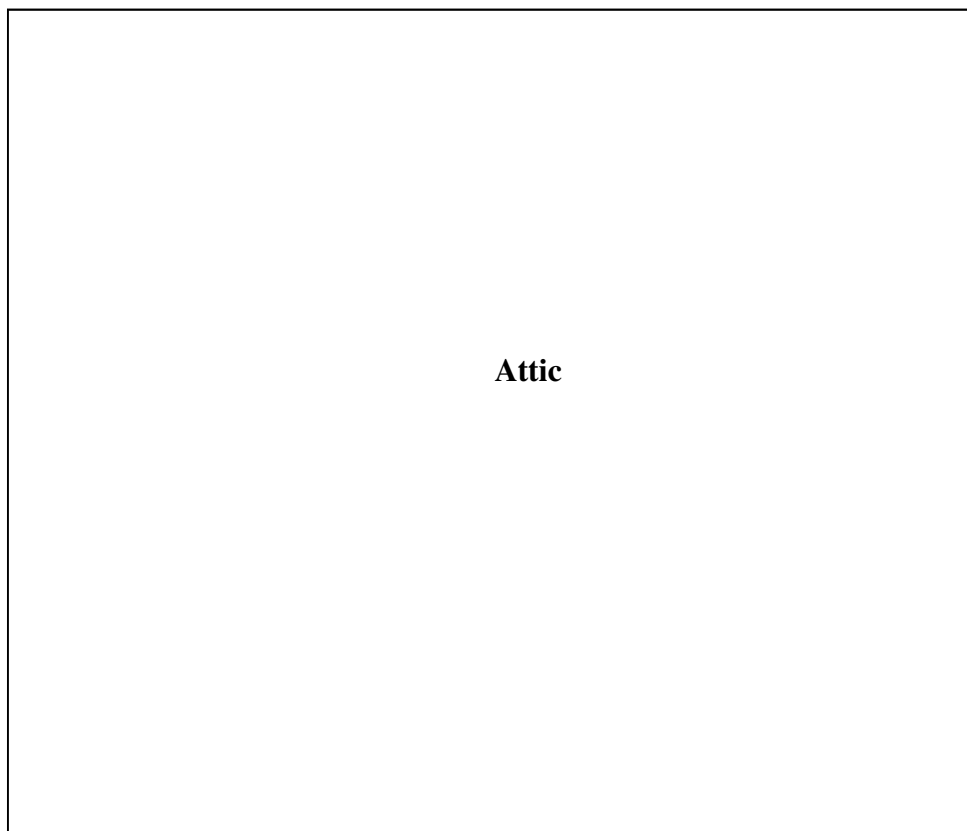
33-01-01-22-354-041  
1711 Bailey St, Lansing, MI 48910  
3/1/2018



 Sample Location

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

Ingham County Land Bank  
204480

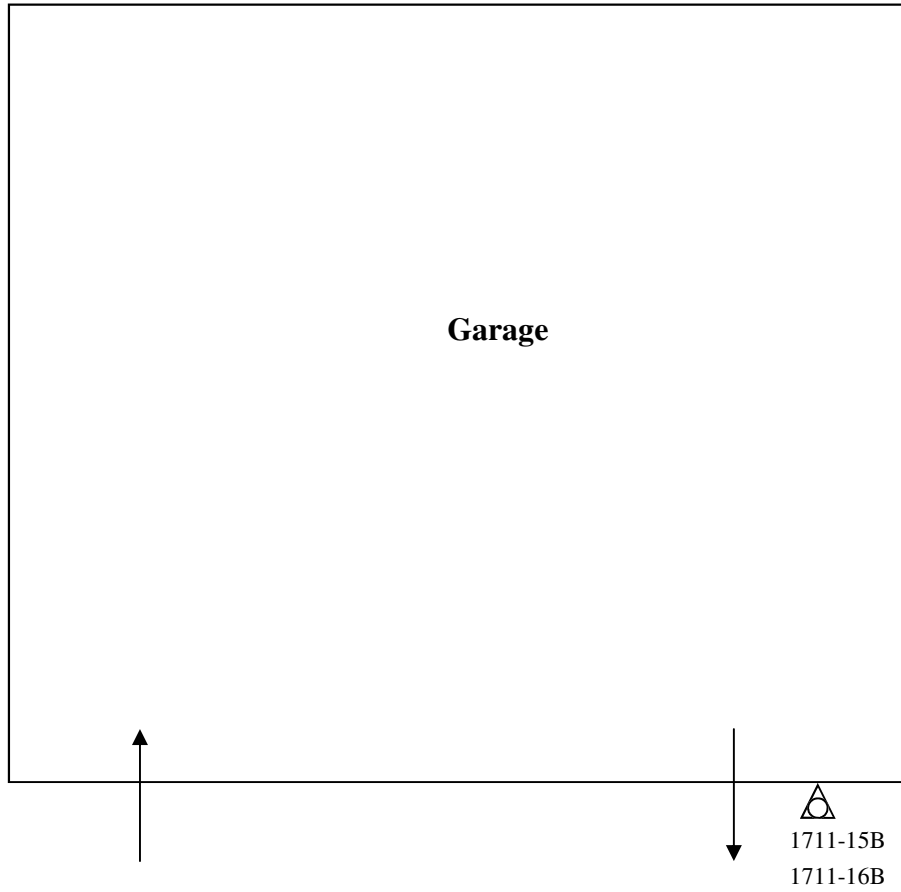


Sample Location

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

**Garage**

33-01-01-22-354-041  
1711 Bailey St, Lansing, MI 48910  
3/1/2018



 Sample Location

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

Ingham County Land Bank  
204480

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-22-354-041  
House No. 1711 Bailey St, Lansing, MI 48910  
Date Inspected: 3/1/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property



## Representative Pictures of House/Property

Parcel: 33-01-01-22-354-041  
House No. 1711 Bailey St, Lansing, MI 48910  
Date Inspected: 3/1/2018



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-354-041  
House No. 1711 Bailey St, Lansing, MI 48910  
Date Inspected: 3/1/2018



Fire Extinguishers



Paint Cans



Smoke Detectors



Thermostats

## Representative Pictures of Hazardous Materials

Parcel:	33-01-01-22-354-041
House No.	1711 Bailey St, Lansing, MI 48910
Date Inspected:	3/1/2018



Florescent Light Bulbs

## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-22-354-041
House No.	1711 Bailey St, Lansing, MI 48910
Date Inspected:	3/1/2018



Duct wrap, grey



Window glaze, beige



Chimney stack pipe cement, grey



Mud, white

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 :  
1711 Bailey St, Lansing, MI 48910

**Attention :**

Client Project : 33-01-01-22-354-041

ETC Job : 204480

Report Date : 3/14/2018

Login #	Sample ID	Work Requested	Completed
694895	01A	Asbestos Analysis	03/02/2018
694896	01B	Asbestos Analysis	03/02/2018
694897	01C	Asbestos Analysis	03/02/2018
694898	01D	Asbestos Analysis	03/02/2018
694899	01E	Asbestos Analysis	03/02/2018
694900	02A	Asbestos Analysis	03/02/2018
694901	02B	Asbestos Analysis	03/02/2018
694902	02C	Asbestos Analysis	03/02/2018
694903	02D	Asbestos Analysis	03/02/2018
694904	02E	Asbestos Analysis	03/02/2018
694905	03A	Asbestos Analysis	03/02/2018
694906	03B	Asbestos Analysis	03/02/2018
694907	03C	Asbestos Analysis	03/02/2018
694908	04A	Asbestos Analysis	03/02/2018
694909	04B	Asbestos Analysis	03/02/2018
694910	04C	Asbestos Analysis	03/02/2018
694911	05A	Asbestos Analysis	03/02/2018
694912	05B	Asbestos Analysis	03/02/2018
694913	06A	Asbestos Analysis	03/02/2018
694914	06B	Asbestos Analysis	03/02/2018

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
694915	07A	Asbestos Analysis	03/02/2018
694916	07B	Asbestos Analysis	03/02/2018
694917	08A	Asbestos Analysis	03/02/2018
694918	08B	Asbestos Analysis	03/02/2018
694919	09A	Asbestos Analysis	03/02/2018
694920	09B	Asbestos Analysis	03/02/2018
694921	10A	Asbestos Analysis	03/02/2018
694922	10B	Asbestos Analysis	03/02/2018
694923	11A	Asbestos Analysis	03/02/2018
694924	11B	Asbestos Analysis	03/02/2018
694925	12A	Asbestos Analysis	03/02/2018
694926	12B	Asbestos Analysis	03/02/2018
694927	13A	Asbestos Analysis	03/02/2018
694928	13B	Asbestos Analysis	03/02/2018
694929	14A	Asbestos Analysis	03/02/2018
694930	14B	Asbestos Analysis	03/02/2018
694931	15A	Asbestos Analysis	03/02/2018
694932	15B	Asbestos Analysis	03/02/2018
694933	16A	Asbestos Analysis	03/02/2018
694934	16B	Asbestos Analysis	03/02/2018
694935	17A	Asbestos Analysis	03/02/2018
694936	17B	Asbestos Analysis	03/02/2018

---

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 :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694895 01A RM 2 South Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694896 01B RM 3 East Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
694897 01C RM 4 Ceiling SE Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
694898 01D RM 12 Center Ceiling Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
694899 01E RM 13 West Wall Analyst: Renee Renauer	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
694900 02A RM 2 South Wall Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694901 02B RM 3 East Wall Analyst: Renee Renauer	Skim	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 :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694902 02C RM 4 Ceiling SE Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694903 02D RM 12 Center Ceiling Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694904 02E RM 13 West Wall Analyst: Renee Renauer	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
694905 03A RM 12 Center Ceiling Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694906 03B RM 10 Center Ceiling Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
694907 03C RM 13 Center Ceiling Analyst: Renee Renauer	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694908 04A RM 12 South Vent Analyst: Renee Renauer	Duct Wrap	Grey Fibrous Homogenous	5% Cellulose	45% Other	50% Chrysotile

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## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694909 04B RM 7 Duct Analyst: Renee Renauer		Not Analyzed			
694910 04C RM 7 Duct Analyst: Renee Renauer		Not Analyzed			
694911 05A RM 8 Ext Window Analyst: Renee Renauer	Window Glaze	Beige Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694912 05B RM 7 East Window Ext Analyst: Renee Renauer	Window Glaze	Beige Non-Fibrous Homogenous		97% Other	3% Chrysotile
694913 06A RM 4 West Floor Analyst: Renee Renauer	Linoleum, squares	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
694914 06B RM 4 North Floor Analyst: Renee Renauer	Linoleum, squares	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
694915 07A RM 11 North Floor Analyst: Renee Renauer	Linoleum	Cream Fibrous Homogenous	95% Cellulose	5% 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 :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694916 07B RM 11 East Floor Analyst: Renee Renauer	Linoleum	Cream Fibrous Homogenous	95% Cellulose	5% Other	None Detected
694917 08A RM 11 North Floor Analyst: Renee Renauer	Mastic	Yellow Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
694918 08B RM 11 East Floor Analyst: Renee Renauer	Mastic	Yellow Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
694919 09A RM 3 North Wall Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
694920 09B RM 2 South Wall Analyst: Renee Renauer	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
694921 10A RM 3 North Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
694922 10B RM 2 South Wall Analyst: Sarah Poirier	Tape	White Fibrous Homogenous	99% Cellulose	1% 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 :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694923 11A RM 3 North Wall Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694924 11B RM 2 South Wall Analyst: Sarah Poirier	Mud	White Non-Fibrous Homogenous		97% Other	3% Chrysotile
** 11A & 11B were different rooms					
694925 12A RM 10 East Wall Analyst: Sarah Poirier	Blown Insulation	Grey Fibrous Homogenous	98% Cellulose	2% Other	None Detected
694926 12B RM 12 Center Ceiling Analyst: Sarah Poirier	Blown Insulation	Grey Fibrous Homogenous	98% Cellulose	2% Other	None Detected
694927 13A RM 7 Chimney Analyst: Sarah Poirier	Stack Cement	Grey Non-Fibrous Homogenous		60% Other	40% Chrysotile
694928 13B RM 7 Chimney Analyst: Sarah Poirier		Not Analyzed			
694929 14A RM 7 Center Floor Analyst: Sarah Poirier	Poured Concrete	Grey 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 :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694930 14B RM 8 East Floor Analyst: Sarah Poirier	Poured Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
694931 15A North Roof Ext House Layer-1 Analyst: Sarah Poirier	Roofing Shingle	Grey Non-Fibrous Homogenous	20% Fiberglass	80% Other	None Detected
694931 15A North Roof Ext House Layer-2 Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
694931 15A North Roof Ext House Layer-3 Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
694932 15B North Roof Ext Garage Layer-1 Analyst: Sarah Poirier	Roofing Shingle	Grey Non-Fibrous Homogenous	3% Cellulose 20% Fiberglass	77% Other	None Detected
694932 15B North Roof Ext Garage Layer-2 Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	50% Cellulose	50% Other	None Detected
694932 15B North Roof Ext Garage Layer-3 Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
694933 16A North Roof Ext House Analyst: Sarah Poirier	Tar Paper	Black Fibrous Homogenous	70% Cellulose	30% 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 :**  
 1711 Bailey St, Lansing, MI 48910

**ETC Job :** 204480  
**Client Project :** 33-01-01-22-354-041  
**Date Collected :** 03/01/2018  
**Date Received :** 03/02/2018  
**Date Analyzed :** 03/02/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
694934 16B North Roof Ext Garage Analyst: Sarah Poirier	Tar Paper	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
694935 17A East Ext House Wall Analyst: Sarah Poirier	House Wrap	Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected
694936 17B West Ext House Wall Analyst: Sarah Poirier	House Wrap	Tan Fibrous Homogenous	99% Cellulose	1% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Renee Renauer



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.

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 204480

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/Name:</b> 1711 Bailey, Lansing MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etc.com	<b>Client Project #:</b>
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Date Sampled:</b> 3/1/18

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

**PLM Instructions**  
 (Check all that apply) 3 days

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
	01A-E		
	02A-E		
	03A-C		
	04A-C		
	05A-B		
	↓		
	17A-B		

	Date	Time
Relinquished (Name/Organization): <u>HE</u>	3/1/18	5:30 am/pm
Received (Name/ETL): <u>Anisa Elmarsaj</u>	3/2/18	9:11 am/pm
Stereoscopic Analysis (Name/ETL):		
Sample Login (Name/ETL): <u>Anisa Elmarsaj</u>	3.2.18	9:15 am/pm
Analysis (Name/ETL): <u>Israhima Kende</u>	3/2/18	12:10 am/pm
QA/QC Review (Name/ETL): <u>Anisa Elmarsaj</u>	3.2.18	2:14 am/pm
<b>Special Instructions:</b>	<b>Remarks</b>	



# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1711 Bailey, Lansing		Date: 3/1/18	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
204480	Material: Plaster	NF	A	Rm 2 south wall 894	3700 SF	13
	grey		B	Rm 3 east wall 896		
			C	Rm 4 ceiling SE 897		
			D	Rm 12 center ceiling 898		
			E	Rm 13 west wall 899		
	Material: Skim Coat	NF	A	Same as 01A 900	3700 SF	13
	white		B	Same as 01B 901		
			C	Same as 01C 902		
			D	Same as 01D 903		
			E	Same as 01E 904		
	Material: Texture	NF	A	Rm 12 center ceiling 905	450 SF	17, 23
	white		B	Rm 10 center ceiling 906		
			C	Rm 13 center ceiling 907		
				Throughout		
				Floor ceilings		
				relays		
				10, 13, 12		

<1000 SF = 3 samples

1000 - <5000 = 5 samples

2 of 5

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

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
204480	Building: 1711 Bailey					3/1/18			
04	Material: Duct wrap		F	A	Rm 12 South vent		Throughout Bst 1 Duct	200 SF	26
	Description: grey			B	Rm 7 Duct				
	Material: Duct wrap			C	Rm 7 Duct				
	Description:								
	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 5/7/2015

Job #:	204480		Building:	1711 Bailers		Date:	3/1/18	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
05	Material: Window Glaze Description: beige	WF	A	Room 8 ext window	Exterior windows	5 units	694	
06	Material: Linoleum Description: brown squares	NF	A	Room 7 east window ext	Bsmnt, attic	96 SF	37911	
			B	Room 4 west floor				
07	Material: Linoleum Description: Green	NF	A	Room 4 north floor	Room 4	64 SF	37912	
08	Material: Mastec Description: yellow	NF	A	Room 11 north floor	Room 11	64 SF	37913	
			B	Room 11 east floor				
09	Material: Drywall Description: white	F	A	Same as 07A	Room 11	64 SF	37914	
			B	Same as 07B				
10	Material: Tape Description: white	F	A	Room 3 north wall	Through out	3700 SF	37915	
			B	Room 2 south wall				
11	Material: Mud Description: white	NF	A	Same as 09A	Through out	3700 SF	37916	
			B	Same as 09B				
12	Material: Blown-In Insulation Description: grey	F	A	Same as 09A	Through out	3700 SF	37917	
			B	Same as 09B				
13	Material: Chimney stack pipe cement Description: grey	NF	A	Room 10 east wall	Room 7	4 SF	37918	
			B	Room 12 center ceiling				
14	Material: Poured concrete Description: grey	NF	A	Room 7 chimney	Room 7, 8	450 SF	37919	
			B	Room 7 chimney				
			A	Room 7 center floor	Room 7, 8	450 SF	37920	
			B	Room 8 east floor				

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Date:	Quantity	Picture #
204480	Building: 1711 Bailey					3/1/18		
15	Material: Roofing shingles		NF	A	north roof ext house	Ext house with garage	7500 SF	293
	Description: Multiple layers black/grey			B	north roof ext garage	Ext house garage	2000 SF	16930
16	Material: Tar paper black		NF	A	Same as 15A		2000 SF	25930
	Description: black			B	Same as 15B			934
17	Material: House-wrap tan		NF	A	east ext house wall	ext house	1200 SF	935
	Description: tan			B	west ext house wall			36936
	Material: Description			A				
	Description: Description			B				
	Material: Description			A				
	Description: Description			B				
	Material: Description			A				
	Description: Description			B				
	Material: Description			A				
	Description: Description			B				

Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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


### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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

Prepared by:   
\_\_\_\_\_  
Heather Davis, Michigan Certified Asbestos Inspector (s)  
Michigan Accreditation Number (s) A-48908

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-22-351-271
House No:	1530 Lyons Ave, Lansing, MI, 48910
Date Inspected:	12/18/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	2	Garage	Detached
Square Footage	945 SF	Garage Square Footage	576 SF
Basement Square Footage	648 SF	Garage Siding	Vinyl, Wood
Siding	Vinyl	Garage Color	White
Color	White	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			





# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-351-271  
House No. 1530 Lyons Ave, Lansing, MI, 48910  
Date Inspected: 12/18/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Tank	1	Room 12
Thermostats	1	Room 2

## TIRE(s) REPORT

<b>Material</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Tires	1	Room 14

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-22-351-271
House No.	1530 Lyons Ave, Lansing, MI, 48910
Date Inspected:	12/18/2017

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

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Plaster, grey	Throughout	2555 SF	No
2	NF	Skim coat, white	Throughout	2555 SF	No
3	NF	Texture, white	Throughout	3163 SF	No
4	NF	Drywall, white	Room 2, 6	1027 SF	No
5	NF	Ceiling tile, white	Room 5	42 SF	No
6	NF	Glue pod, black	Room 5	30 SF	No
7	NF	12x12 Peel and stick, brown	Room 3	81 SF	No
8	NF	12x12 Peel and stick, white/blue	Room 4	80 SF	No
9	NF	Wall glue, yellow	Room 4	288 SF	No
10	NF	Linoleum, tan	Room 5	42 SF	No
11	NF	Linoleum, white	Room 5	1 SF	No
12	NF	12x12 Floor tile, white	Room 10	9 SF	No
<b>13</b>	<b>NF</b>	<b>9x9 Floor tile, tan with stripes</b>	<b>Room 10</b>	<b>9 SF</b>	<b>YES</b>
14	NF	Cement floor, grey	Room 11, 12, 13	648 SF	No
15	NF	Cinderblock, grey	Room 11-13, Exterior (house)	912 SF	No
16	NF	Mortar, grey	Room 11-13, Exterior (house)	800 SF	No
17	NF	House wrap, tan	Exterior (house)	3168 SF	No
18	NF	Shingle, black	Exterior	1600 SF	No
19	NF	Asphalt siding, white/red	Exterior (house)	3168 SF	No
20	NF	Glaze, white	Exterior	3 windows	No
21	NF	Fiberboard, white	Room 9	91 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.

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-351-271  
 House No. 1530 Lyons Ave, Lansing, MI, 48910  
 Date Inspected: 12/18/2017

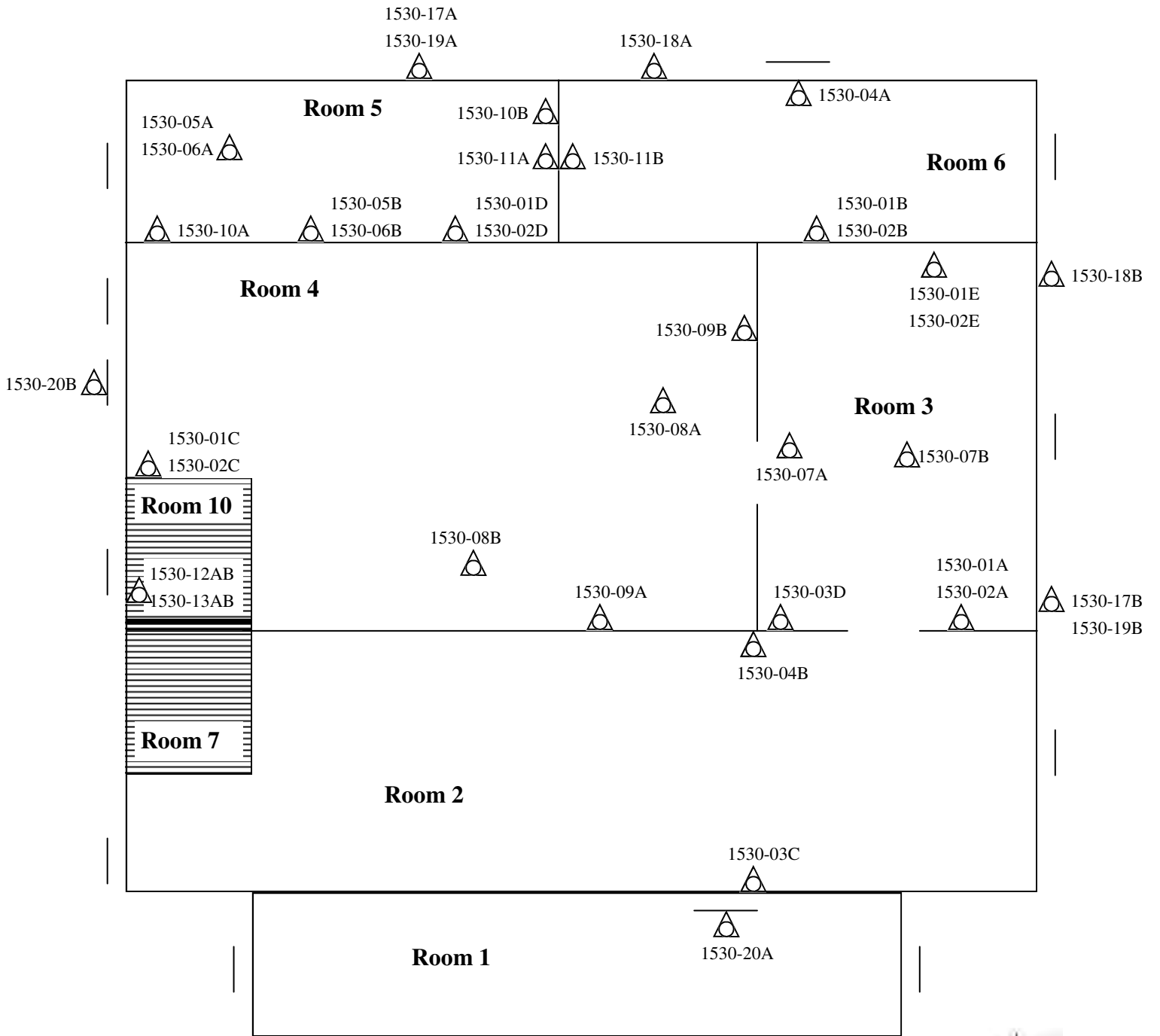
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**


<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>22</b>	<b>NF</b>	<b>12x12 Peel and stick, white with specs</b>	<b>Room 7</b>	<b>9 SF</b>	<b>YES</b>
<b>23</b>	<b>NF</b>	<b>12x12 Peel and stick, white/gold</b>	<b>Room 9</b>	<b>117 SF</b>	<b>YES</b>

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

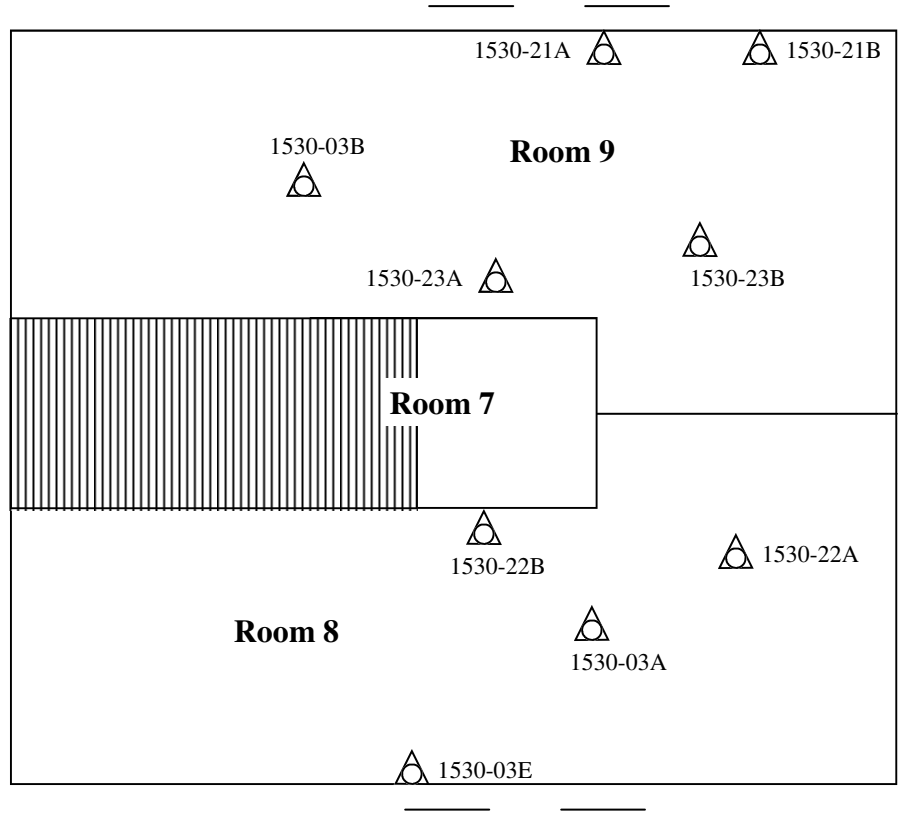
Attachment:


Site Drawing



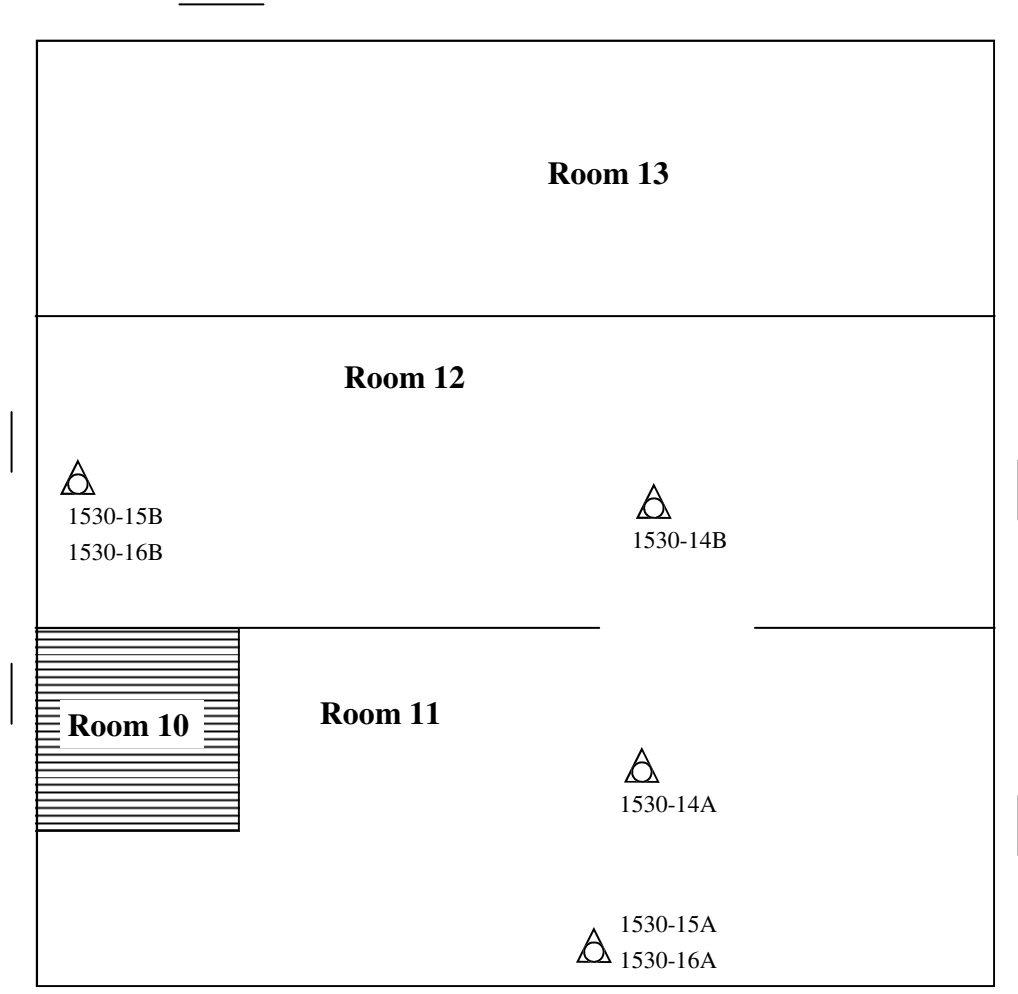
 Sample Location


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



 Sample Location

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

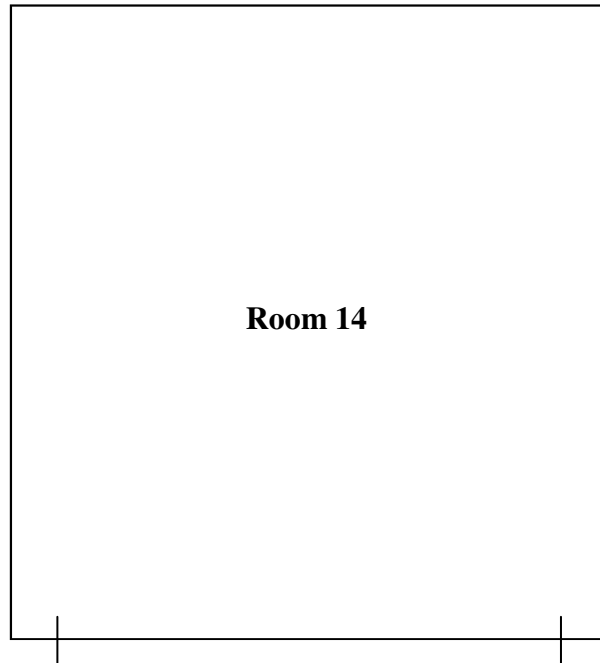


 Sample Location

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

**Garage**

33-01-01-22-351-271  
1530 Lyons Ave, Lansing, MI, 48910  
12/18/2017



Sample Location

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

Ingham County Land Bank  
199865



Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-22-351-271  
House No. 1530 Lyons Ave, Lansing, MI, 48910  
Date Inspected: 12/18/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel:	33-01-01-22-351-271
House No.	1530 Lyons Ave, Lansing, MI, 48910
Date Inspected:	12/18/2017



Garage

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-22-351-271  
House No. 1530 Lyons Ave, Lansing, MI, 48910  
Date Inspected: 12/18/2017



Hot Water Tank



Thermostats



Tires

## Representative Pictures of Asbestos Containing Materials

Parcel: 33-01-01-22-351-271  
House No. 1530 Lyons Ave, Lansing, MI, 48910  
Date Inspected: 12/18/2017



9x9 Floor tile, tan with stripes



12x12 Peel and Stick, white with specs



12x12 Peel and Stick, white/gold

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 :  
1530 Lyons Ave, Lansing, MI

**Attention :**

Client Project : 33-01-01-22-351-271

ETC Job : 199865

Report Date : 12/20/2017

Login #	Sample ID	Work Requested	Completed
640741	01A	Asbestos Analysis	12/20/2017
640742	01B	Asbestos Analysis	12/20/2017
640743	01C	Asbestos Analysis	12/20/2017
640744	01D	Asbestos Analysis	12/20/2017
640745	01E	Asbestos Analysis	12/20/2017
640746	02A	Asbestos Analysis	12/20/2017
640747	02B	Asbestos Analysis	12/20/2017
640748	02C	Asbestos Analysis	12/20/2017
640749	02D	Asbestos Analysis	12/20/2017
640750	02E	Asbestos Analysis	12/20/2017
640751	03A	Asbestos Analysis	12/20/2017
640752	03B	Asbestos Analysis	12/20/2017
640753	03C	Asbestos Analysis	12/20/2017
640754	03D	Asbestos Analysis	12/20/2017
640755	03E	Asbestos Analysis	12/20/2017
640756	04A	Asbestos Analysis	12/20/2017
640757	04B	Asbestos Analysis	12/20/2017
640758	05A	Asbestos Analysis	12/20/2017
640759	05B	Asbestos Analysis	12/20/2017
640760	06A	Asbestos Analysis	12/20/2017

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<b>Login #</b>	<b>Sample ID</b>	<b>Work Requested</b>	<b>Completed</b>
640761	06B	Asbestos Analysis	12/20/2017
640762	07A	Asbestos Analysis	12/20/2017
640763	07B	Asbestos Analysis	12/20/2017
640764	08A	Asbestos Analysis	12/20/2017
640765	08B	Asbestos Analysis	12/20/2017
640766	09A	Asbestos Analysis	12/20/2017
640767	09B	Asbestos Analysis	12/20/2017
640768	10A	Asbestos Analysis	12/20/2017
640769	10B	Asbestos Analysis	12/20/2017
640770	11A	Asbestos Analysis	12/20/2017
640771	11B	Asbestos Analysis	12/20/2017
640772	12A	Asbestos Analysis	12/20/2017
640773	12B	Asbestos Analysis	12/20/2017
640774	13A	Asbestos Analysis	12/20/2017
640775	13B	Asbestos Analysis	12/20/2017
640776	14A	Asbestos Analysis	12/20/2017
640777	14B	Asbestos Analysis	12/20/2017
640778	15A	Asbestos Analysis	12/20/2017
640779	15B	Asbestos Analysis	12/20/2017
640780	16A	Asbestos Analysis	12/20/2017
640781	16B	Asbestos Analysis	12/20/2017
640782	17A	Asbestos Analysis	12/20/2017
640783	17B	Asbestos Analysis	12/20/2017
640784	18A	Asbestos Analysis	12/20/2017
640785	18B	Asbestos Analysis	12/20/2017
640786	19A	Asbestos Analysis	12/20/2017
640787	19B	Asbestos Analysis	12/20/2017

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Login #	Sample ID	Work Requested	Completed
640788	20A	Asbestos Analysis	12/20/2017
640789	20B	Asbestos Analysis	12/20/2017
640790	21A	Asbestos Analysis	12/20/2017
640791	21B	Asbestos Analysis	12/20/2017
640792	22A	Asbestos Analysis	12/20/2017
640793	22B	Asbestos Analysis	12/20/2017
640794	23A	Asbestos Analysis	12/20/2017
640795	23B	Asbestos Analysis	12/20/2017

---

Reviewed by:



---

Quality Assurance Coordinator

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1530 Lyons Ave, Lansing, MI

**ETC Job :** 199865  
**Client Project :** 33-01-01-22-351-271  
**Date Collected :** 12/18/2017  
**Date Received :** 12/19/2017  
**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640741 01A RM 3 North Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640742 01B RM 6 North Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640743 01C RM 4 East Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640744 01D RM 5 North Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640745 01E RM 3 South Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous		100% Other	None Detected
640746 02A RM 3 North Wall Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640747 02B RM 6 North Wall Analyst: Alice Turner	Skim	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 :**  
 1530 Lyons Ave, Lansing, MI

**ETC Job :** 199865  
**Client Project :** 33-01-01-22-351-271  
**Date Collected :** 12/18/2017  
**Date Received :** 12/19/2017  
**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640748 02C RM 4 East Wall Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
640749 02D RM 5 North Wall Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
640750 02E RM 3 South Wall Analyst: Alice Turner	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
640751 03A RM 8 Ceiling Center Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous		100% Other	None Detected
640752 03B RM 9 Ceiling Center Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640753 03C RM 2 South Wall Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640754 03D RM 3 South Wall Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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 38900 Huron River Drive  
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**Date Collected :** 12/18/2017  
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**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640755 03E RM 8 North Wall Analyst: Alice Turner	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640756 04A RM 6 South Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
640757 04B RM 2 South Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640758 05A RM 5 Ceiling Center Analyst: Alice Turner	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
640759 05B RM 5 North Ceiling Analyst: Alice Turner	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
640760 06A RM 5 Ceiling Center Analyst: Alice Turner	Glue Pod	Black Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
640761 06B RM 5 North Ceiling Analyst: Alice Turner	Glue Pod	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

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 1530 Lyons Ave, Lansing, MI

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**Date Collected :** 12/18/2017  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640762 07A East Floor RM 3 Analyst: Alice Turner	12x12 Peel and Stick	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640763 07B Center Floor RM 3 Analyst: Alice Turner	12x12 Peel and Stick	Brown Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640764 08A West Floor RM 4 Analyst: Alice Turner	12x12 Peel and Stick	White/Blue Non-Fibrous Homogenous		100% Other	None Detected
640765 08B North Floor RM 4 Analyst: Alice Turner	12x12 Peel and Stick	White/Blue Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640766 09A North Wall RM 4 Analyst: Alice Turner	Wall Glue	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640767 09B West Wall RM 4 Analyst: Alice Turner	Wall Glue	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640768 10A North Floor RM 5 Analyst: Alice Turner	Linoleum	Tan Non-Fibrous Homogenous		100% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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**Date Collected :** 12/18/2017  
**Date Received :** 12/19/2017  
**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640769 10B West Floor RM 5 Analyst: Alice Turner	Linoleum	Tan Non-Fibrous Homogenous		100% Other	None Detected
640770 11A West Entrance RM 5 Floor Analyst: Alice Turner	Linoleum	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
640771 11B West Entrance RM 5 Floor Analyst: Alice Turner	Linoleum	White Non-Fibrous Homogenous		100% Other	None Detected
640772 12A RM 10 Floor Center Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
640773 12B RM 10 East Floor Analyst: Alice Turner	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640774 13A RM 10 Floor Center Layer-1 Analyst: Alice Turner	9x9 Floor Tile	Tan Non-Fibrous Homogenous		95.75% Other	PC 4.25% Chrysotile
640774 13A RM 10 Floor Center Layer-2 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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## Polarized Light Microscopy Asbestos Analysis Report

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 Romulus, MI 48174

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**Date Collected :** 12/18/2017  
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**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640775 13B RM 10 East Floor Layer-1 Analyst: Alice Turner		Not Analyzed			
640775 13B RM 10 East Floor Layer-2 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous		100% Other	None Detected
640776 14A RM 11 Floor Center Analyst: Alice Turner	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640777 14B RM 12 Floor Center Analyst: Alice Turner	Cement Floor	Grey Non-Fibrous Homogenous		100% Other	None Detected
640778 15A RM 11 Wall North Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
640779 15B RM 12 Wall East Analyst: Alice Turner	Cinder Block	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640780 16A RM 11 Wall North Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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 Romulus, MI 48174

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 1530 Lyons Ave, Lansing, MI

**ETC Job :** 199865  
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**Date Collected :** 12/18/2017  
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640781 16B RM 12 Wall East Analyst: Alice Turner	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
640782 17A South Side Ext House Analyst: Alice Turner	House Wrap	Tan Fibrous Homogenous	100% Cellulose		None Detected
640783 17B West Side Ext House Analyst: Alice Turner	House Wrap	Tan Fibrous Homogenous	100% Cellulose		None Detected
640784 18A South Roof Ext House Analyst: Alice Turner	Shingle	Black Fibrous Homogenous	60% Fiberglass	40% Other	None Detected
640785 18B West Roof Ext Garage Analyst: Alice Turner	Shingle	Black Fibrous Homogenous	60% Cellulose	40% Other	None Detected
640786 19A South Roof Ext House Analyst: Alice Turner	Asphalt Siding	White/Red Fibrous Homogenous	70% Cellulose	30% Other	None Detected
640787 19B West Roof Ext Garage Analyst: Alice Turner	Asphalt Siding	White/Red Fibrous Homogenous	65% Cellulose	35% Other	None Detected

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**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640788 20A RM 4 Window East Analyst: Alice Turner	Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
640789 20B RM 1 Window South Analyst: Alice Turner	Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
640790 21A RM 9 South Wall Analyst: Alice Turner	Fiberboard	White Fibrous Homogenous	100% Cellulose		None Detected
640791 21B RM 9 South Wall Analyst: Alice Turner	Fiberboard	White Fibrous Homogenous	100% Cellulose		None Detected
640792 22A RM 8 Center Floor Analyst: Alice Turner	12x12 Peel and Stick	White Non-Fibrous Homogenous		97.5% Other	PC 2.5% Chrysotile
640793 22B RM 8 South Floor Analyst: Alice Turner		Not Analyzed			
640794 23A RM 9 North Floor Analyst: Alice Turner	12x12 Peel and Stick	White/Gold Non-Fibrous Homogenous		96% Other	4% Chrysotile

**Polarized Light Microscopy Asbestos Analysis Report**

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**Date Analyzed :** 12/20/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
640795 23B RM 9 West Floor Analyst: Alice Turner		Not Analyzed			



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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**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 #: 199865

<b>Client:</b> ETC	<b>Contact:</b> Phons: (734) 955-6600	<b>Project Location/name:</b> 1530 Lyons Ave Lansing, MI
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etc.com	<b>Client Project #:</b>
<b>Please Provide Results:</b> <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		<b>Date Sampled:</b> 12/18/17

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

**PLM Instructions**  
 (Check all that apply) 3 days

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01A-E		
	↓		
	03A-E		
	04A-B		
	↓		
	23A-B		

	Date	Time
Relinquished (Name/Organization):	12/18/17	5:30 am/pm
Received (Name/ETL):	12.19.17	9 am/pm
Stereoscopical Analysis (Name/ETL):	12.19.17	am/pm
Sample Login (Name/ETL):	12.19.17	10:44 am/pm
Analysis (Name/ETL):	12.19.17	am/pm
QA/QC Review (Name/ETL):	12/20/17	am/pm

**Special Instructions:** please point count 3% or less if positive!

**Remarks:**

# Asbestos Material Sampling Summary Sheet

## Surfacing materials

Revision date 5/7/2015

Job #:	Building: 1530 Lyons Ave			Date: 12/18/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location			
01	Material: plaster  grey	NF	A.	Rm 3 north wall 741	Throughout (not in Rm 2)	525	23
			B.	Rm 6 north wall 742			
			C.	Rm 4 east wall 743			
			D.	Rm 5 north wall 744			
			E.	Rm 3 south wall 745			
02	Material: skim coat  white	NF	A.	Same as 01A 740	Throughout	525	23
			B.	Same as 01B 747			
			C.	Same as 01C 748			
			D.	Same as 01D 749			
			E.	Same as 01E 750			
03	Material: Texture  white	NF	A.	Rm 8 ceiling center 751	Throughout	3163	20
			B.	Rm 9 ceiling center 752			
			C.	Rm 2 south wall 753			
			D.	Rm 3 south wall 754			
			E.	Rm 8 north wall 755			

<1000 SF = 3 samples

1000 - <5000 = 5 samples

PLM Benthop Data/Stereoscopic Analysis Worksheet

Client Name ETC/Ingham County

Project # 199865 Location of Sampling 1530 Lyons Ave

Date Received 12.19.17 Date Analyzed 12.19.17 Analyst Initials AT

Sample#-Layer#-Sample Type	Login #	Sample Description (Color, Texture, F/N)	Sample Prep.	Hom. (Y/N)	Estimated Conc. Of Asbestos	Morphology	Color (Absorption)	Refractive Indices and Temp.	Pleo. (Y/N)	Birefr. (L,M,H)	Ext. Angle (P,O,I)	Elong. (+/-)	Disp. Staining Colors (Liq.)	% non-asbestos material	% asbestos material
1A plaster	7411	Grey, 2, N	6, 2	Y	0-1%	6, 10		n <sub>  </sub> = n <sub>⊥</sub> =			I		 ⊥	100% 99% Other	0%
1B plaster	742	Grey, 2, N	6, 2	Y	0-1%	6, 10		n <sub>  </sub> = n <sub>⊥</sub> =			I		 ⊥	100% 99% Other	0%
1C plaster	743	Grey, 2, N	6, 2	Y	0-1%	6, 10		n <sub>  </sub> = n <sub>⊥</sub> =			I		 ⊥	100% 99% Other	0%
1D plaster	744	Grey, 2, N	6, 2	Y	0-1%	6, 10		n <sub>  </sub> = n <sub>⊥</sub> =			I		 ⊥	29% 98% Other	0%
1E plaster	745	Grey, 2, N	6, 2	Y	0-1%			n <sub>  </sub> = n <sub>⊥</sub> =					 ⊥	100% Other	0%
2A skim	746	White, 3, N	1	Y	0-1%	6, 10		n <sub>  </sub> = n <sub>⊥</sub> =			I		 ⊥	27% 98% Other	0%
2B skim	747	White, 3, N	1	Y	0-1%	6, 10		n <sub>  </sub> = n <sub>⊥</sub> =			I		 ⊥	100% 99% Other	0%
2C skim	748	White, 3, N	1	Y	0-1%			n <sub>  </sub> = n <sub>⊥</sub> =					 ⊥	100% Other	0%

Comments:

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	199865		Building:	1530 Lyons Ave		Date:	12/18/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located Throughout bldg (Please List all Rooms)	Quantity	Picture #	
10	Material: Drywall Description: white	NF	A	Rm 6 south wall	640	10 <sup>27</sup> SF	71	
			B	Rm 3 south wall	757	4 <sup>2</sup> SF	16	
11	Material: Ceiling Tile Description: white	NF	A	Rm 5 ceiling center	158			
			B	Rm 5 north ceiling	750			
12	Material: Gue Rod Description: black	NF	A	Same as 05A	700			
			B	Same as 05B	701			
13	Material: 12x12 PE S Description: brown	NF	A	East floor Rm 3	762			
			B	Center floor Rm 3	763			
14	Material: 12x12 PE S Description: white/blue	NF	A	west floor Rm 4	764			
			B	north floor Rm 4	765			
15	Material: Wall Glue Description: yellow	NF	A	north wall Rm 4	766			
			B	west wall Rm 4	767			
16	Material: Linoleum Description: tan	NF	A	north floor Rm 5	768			
			B	west floor Rm 5	769			
17	Material: Linoleum Description: white	NF	A	west entrance Rm 5 floor	770			
			B	west entrance Rm 5 floor	771			
18	Material: 12x12 Floor Tile Description: white	NF	A	Rm 10 floor center	772			
			B	Rm 10 east floor	773			
19	Material: 9x9 Floor Tile Description: tan w/stripes	NF	A	Same as 12A	774			
			B	Same as 12B	775			

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	199865		Building:	1530 Lyons Ave		Date:	12/18/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
14	Material: Cement floor Description: grey	NF	A	Rm 11 floor center 776	basement	648 SF	10	
15	Material: Cinder block Description: grey	NF	A	Rm 12 floor center 777	ext house	912 SF	11	
16	Material: Mortar Description: grey	NF	A	Rm 11 wall north 778	all of basement			
17	Material: House wrap Description: tan	NF	B	Rm 12 wall east 779	ext house	800 SF	11	
18	Material: Shingle Description: black	NF	A	Same as 15A 780	basement			
19	Material: Asphalt siding Description: white/red	NF	B	Same as 15B 781	ext house	3168 SF	28	
20	Material: Glaze Description: white	NF	A	South side ext house 782	ext house	3168 SF	27	
21	Material: Fiberboard Description: white	NF	B	West side ext house 783	house			
22	Material: 12x12 P&S Description: white w/ specs	NF	A	South roof ext house 784	ext house	100 SF	26	
23	Material: 12x12 P&S Description: white/gold	NF	B	West roof ext garage 785	ext house			
			A	Same as 17A 786	ext house			
			B	Same as 17B 787	ext house			
			A	Rm 4 window east 788	ext house			
			B	Rm 1 window south 789	ext house			
			A	Rm 9 south wall 790	ext house			
			B	Rm 9 south wall 791	ext house			
			A	Rm 8 center floor 792	ext house			
			B	Rm 8 south floor 793	ext house			
			A	Rm 9 north floor 794	ext house			
			B	Rm 9 west floor 795	ext house			

Attachment:

Inspection Procedures



# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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



Prepared by: \_\_\_\_\_

Heather Davis, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-48908



Western Regional Office  
721 N. Capitol Avenue, Suite 3  
Lansing, MI 48906

December 21, 2017

Ingham County Land Bank Authority  
ATTN: Roxanne Case

**RE: Letter of Finding for Dwellings Unfit to Enter (Asbestos/Hazardous Material Surveys)**

On this date (12/26/2017), ETC attempted to access the following address to complete an asbestos and hazardous material survey (1720 Lyons Ave, Lansing, MI).

However, due to warnings posted on the property from the Lansing Fire Department, Fire Marshal's Office- Code Enforcement Section, interior access was deemed impossible based on legal and safety restrictions. Consequently, ETC's inspectors only performed exterior testing, where possible and appropriate, at this dwelling.

Based on current state regulations any interior construction materials that may be present in this dwelling must be labeled and disclosed as "assumed ACM", although further testing may be used to dispute that assumption once access to the unit can be safely provided. Should these conditions be remedied and safe access is permitted, ETC will make every effort to conduct the inspection in a timely and compliant manner.

Please feel free to contact me directly with any questions or requests for more information; we stand ready to assist you with your continuing efforts to improve neighborhoods in Ingham County.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan M. Dryer', with a long horizontal line extending to the right.

Bryan M. Dryer, Executive Director  
The ETC Group  
(517)455-3448 (mobile)  
bryan.dryer@2etc.com



## CITY OF LANSING

Department of Planning and Neighborhood Development  
316 N. Capitol Ave., Suite C-1 – Lansing, MI 48933-1238  
(517) 483-4355 – Fax (517) 377-0169  
Bob Johnson, Director  
[www.LansingMI.Gov](http://www.LansingMI.Gov)

Mayor Virg Bernero

### Office of Building Safety **Unsafe Structures Notice**

November 03, 2017

**Ingham County Land Bank**  
Fast Track Authority  
3024 Turner Street  
Lansing, Michigan 48906

**Regarding:** 1720 Lyons Avenue  
**Parcel:** #33-01-01-22-354-141

Dear ICLB,

This letter is in regard to the unsafe structure and unsafe site conditions at the aforementioned address. After a review of the site and structure this office has declared this site, structure and Use (R-3), unsafe to occupy in any part and is in structural failure. Therefore the site shall be properly secured to prevent anyone from entry and the structure shall be made safe or removed as stated herein. It is imperative and time is of the essence that steps be taken to address these issues. To ensure the health, safety and welfare for neighbors and the public, the City of Lansing and the State of Michigan requires that the building and site be protected, repaired and/or removed immediately.

**This letter shall serves as notice that the property shall be made safe as set forth by the STILLE-DEROSSETT-HALE- SINGLE STATE CONSTRUCTION CODE ACT, Act 230 of 1972 known as the Michigan Building Code 2015 with amendments, in particular section 116.1 of the Michigan Building Code 2015; "Structures or existing equipment that are or hereafter become unsafe, insanitary or deficient because of inadequate means of egress facilitates, inadequate light and ventilation, or which constitutes a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed unsafe an unsafe condition. Unsafe structures shall be taken down and removed or made safe, as the Building Official deems necessary and as provided for in this section. A vacant structure that is not secured against entry shall be deemed unsafe."**

It is our understanding that measures need to be implemented to abate the structural hazards. This office approves the implementation of any and all measures to abate said hazards as set forth by the code.

Should you have any questions please feel free to contact me at (517) 483-4365 or at [Steve.Swan@lansingmi.gov](mailto:Steve.Swan@lansingmi.gov) or visit our City web site at [cityoflansing.com](http://cityoflansing.com)

Thank you,

A handwritten signature in blue ink, consisting of several overlapping loops and a long horizontal stroke, positioned to the right of the 'Thank you,' text.

Steven M. Swan, C.B.O.  
Chief Building Inspector  
City of Lansing, Michigan

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
 3024 Turner Street  
 Lansing, MI 48906

Parcel:	33-01-01-22-354-141
House No:	1720 Lyons Ave, Lansing, MI 48910
Date Inspected:	12/26/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	1	Garage	Detached
Square Footage	2178 SF	Garage Square Footage	432 SF
Basement Square Footage	NA	Garage Siding	Wood
Siding	Wood	Garage Color	Grey
Color	Grey	Garage Shingles	Asphalt
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas	Interior—Roxanne Case indicated the house was unsafe to enter via email.		



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-354-141  
House No. 1720 Lyons Ave, Lansing, MI 48910  
Date Inspected: 12/26/2017

**TABLE 1**

## HAZARDOUS MATERIALS

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

Unknown—Interior unsafe to enter.		
-----------------------------------	--	--

## TIRE(s) REPORT

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

Unknown—Interior unsafe to enter.		
-----------------------------------	--	--

Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-22-354-141  
 House No. 1720 Lyons Ave, Lansing, MI 48910  
 Date Inspected: 12/26/2017

**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	Window glaze, yellow	Exterior	22 windows	No
2	NF	Concrete, grey	Exterior (garage)	432 SF	No
3	NF	Asphalt shingle, black	Exterior	432 SF	No
4	NF	Cinder block, grey	Exterior	2178 SF	No
5	NF	Mortar, grey	Exterior	11 SF	No
6	F	House wrap, brown	Exterior	1980 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.

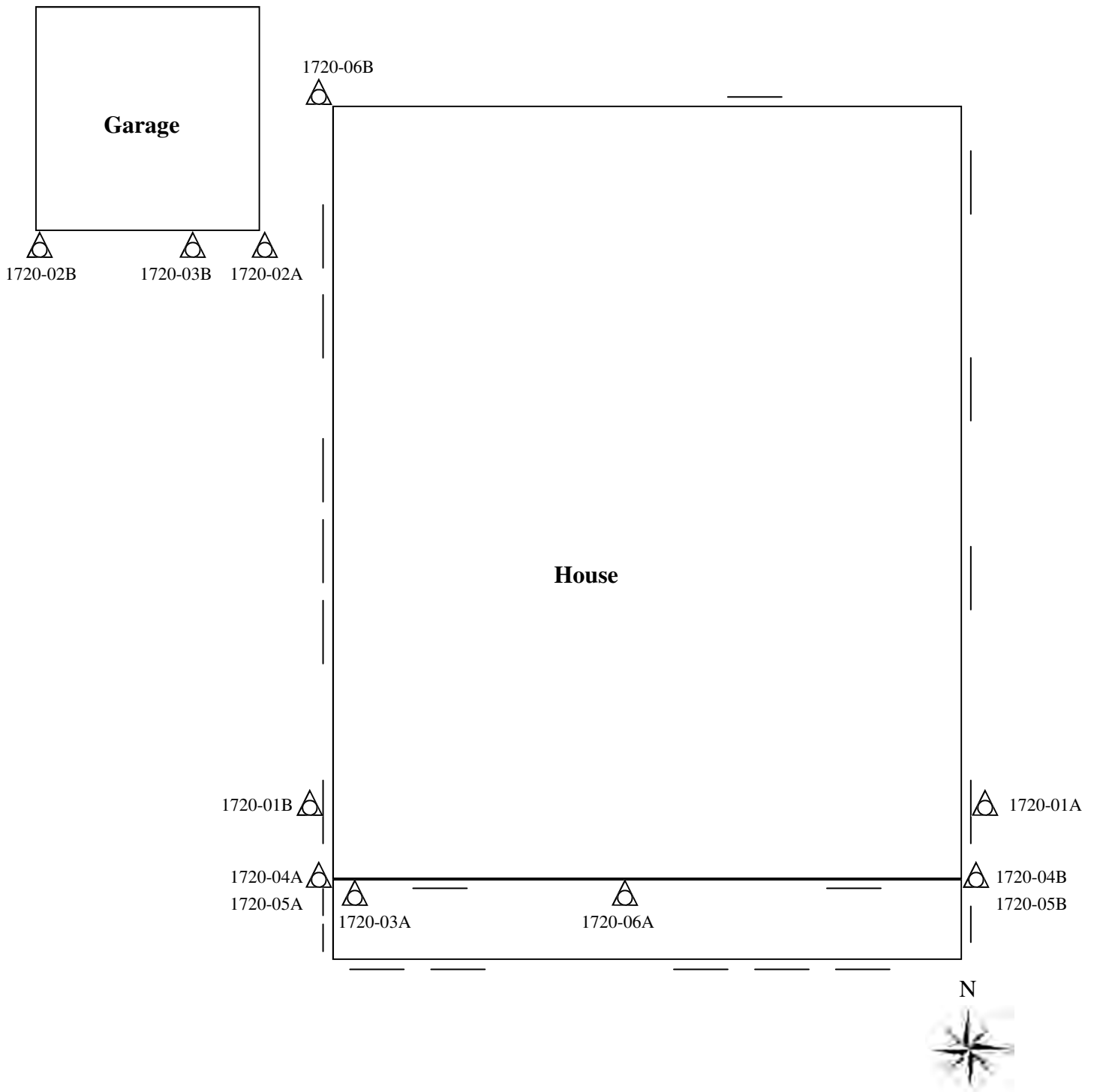


Attachment:

Site Drawing

**Site Map**

33-01-01-22-354-141  
1720 Lyons Ave, Lansing, MI 48910  
12/26/2017



 Sample Location

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

Ingham County Land Bank  
199891

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-22-354-141  
House No. 1720 Lyons Ave, Lansing, MI 48910  
Date Inspected: 12/26/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of House/Property

Parcel: 33-01-01-22-354-141  
House No. 1720 Lyons Ave, Lansing, MI 48910  
Date Inspected: 12/26/2017



Garage

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 :  
1720 Lyons Ave, Lansing, MI

**Attention :**

Client Project : 33-01-01-22-354-141

ETC Job : 199891

Report Date : 12/27/2017

Login #	Sample ID	Work Requested	Completed
643723	01A	Asbestos Analysis	12/27/2017
643724	01B	Asbestos Analysis	12/27/2017
643725	02A	Asbestos Analysis	12/27/2017
643726	02B	Asbestos Analysis	12/27/2017
643727	03A	Asbestos Analysis	12/27/2017
643728	03B	Asbestos Analysis	12/27/2017
643729	04A	Asbestos Analysis	12/27/2017
643730	04B	Asbestos Analysis	12/27/2017
643731	05A	Asbestos Analysis	12/27/2017
643732	05B	Asbestos Analysis	12/27/2017
643733	06A	Asbestos Analysis	12/27/2017
643734	06B	Asbestos Analysis	12/27/2017

Reviewed by:

Quality Assurance Coordinator

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1720 Lyons Ave, Lansing, MI

**ETC Job :** 199891  
**Client Project :** 33-01-01-22-354-141  
**Date Collected :** 12/26/2017  
**Date Received :** 12/27/2017  
**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643723 01A E Ext Window Analyst: Dave Cousino	Window Glaze	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643724 01B W Ext Window Analyst: Dave Cousino	Window Glaze	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643725 02A E Ext Garage Analyst: Dave Cousino	Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643726 02B W Ext Garage Analyst: Dave Cousino	Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643727 03A S Ext Analyst: Dave Cousino	Asphalt Shingle	Black Non-Fibrous Homogenous	1% Cellulose 3% Fiberglass	96% Other	None Detected
643728 03B S Garage Analyst: Dave Cousino	Asphalt Shingle	Black Non-Fibrous Homogenous	2% Cellulose 3% Fiberglass	95% Other	None Detected
643729 04A W Lower Wall Analyst: Dave Cousino	Cinder Block	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 :**  
 1720 Lyons Ave, Lansing, MI

**ETC Job :** 199891  
**Client Project :** 33-01-01-22-354-141  
**Date Collected :** 12/26/2017  
**Date Received :** 12/27/2017  
**Date Analyzed :** 12/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
643730 04B E Lower Wall Analyst: Dave Cousino	Cinder Block	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
643731 05A W Lower Wall Ext Analyst: Dave Cousino	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643732 05B E Lower Wall Ext Analyst: Dave Cousino	Mortar	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
643733 06A S Ext Analyst: Dave Cousino	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
643734 06B W Ext Analyst: Dave Cousino	House Wrap	Brown Fibrous Homogenous	95% Cellulose	5% 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

ETL, Inc. maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced without written approval by ETL, Inc. Test Method EPA 600/R-93-116 & EPA 600/M4-82/020 or NYSDOH-ELAP item 198.1 and/or 198.6 was used to analyze all samples. Matrix interference and/or resolution limits (i.e. detecting asbestos in non-friable organically bound materials) may yield false results in certain circumstances. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. Interpretation and use of test results are the responsibility of the client. ETL, Inc. is not responsible for the accuracy of the results when requested to physically separate and analyze layered samples. Any PLM results below 10% should be re-analyzed using the EPA recommended Point Count method. Any material that has greater than 1% asbestos content is considered to be an Asbestos Containing Material (ACM). These materials are regulated by both OSHA and the EPA and must be treated accordingly. Results are related to only to samples that were tested.

**ENVIRONMENTAL TESTING LABORATORIES, INC**

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

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 199891

<b>Client:</b> ETC	<b>Contact:</b> Phone: (734) 955-6600	<b>Project Location/Name:</b> 1726 Lyons, AVE, Lansing
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2eti.com	<b>Client Project #:</b> 199891
<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> 12/26/17

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

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

<input checked="" type="checkbox"/> PLM EPA800/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - Clearly mark Homogenous Group
<input type="checkbox"/> Point Counting: 400 Points*	
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01 AB		
	↓		
	06 AB		

	Date	Time
Relinquished (Name/Organization):	Wade Wilton	12/26/17 am/pm
Received (Name/ETL):	David Costello	12/29/17 11:30 am/pm
Stereoscopical Analysis (Name/ETL):	Borley	12/27/17 12:45 am/pm
Sample Login (Name/ETL):	David Costello	12/27/17 am/pm
Analysis (Name/ETL):	David Costello	12/27/17 12:45 am/pm
QA/QC Review (Name/ETL):	David Costello	12/27/17 am/pm

<b>Special Instructions:</b> Please count anything less than 2%	<b>Remarks:</b>
--	-----------------

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 1720 Lyons		Date: 12/26/17	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location		
01	Material: windows GLAZE	N	A	E ext windows 643723	22 units	
	Description: <del>Red Yellow</del>		B	W ext Window 724		
02	Material: Concrete	N	A	E ext garage 725	432	
	Description: Grey		B	W ext garage 726		
03	Material: Asphalt shingles	N	A	S ext 727	432	
	Description: Black		B	S garage 728		
04	Material: Cinder Block	N	A	W Lower Wall 729	2178	
	Description: Grey		B	E Lower Wall 730		
05	Material: Mortar	N	A	W Lower wall ext 731	N SF	
	Description: Grey		B	E Lower wall ext 732		
06	Material: House Wrap	Y	A	S ext 733	1980	
	Description: Brown		B	W ext 734		
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			
	Material: Description		A			
	Material: Description		B			

2 samples

2

Attachment:

Inspection Procedures

# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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



Prepared by: \_\_\_\_\_

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051

# PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank  
3024 Turner Street  
Lansing, MI 48906

Parcel:	33-01-01-21-484-035
House No:	1823 Linval St, Lansing, MI 48910
Date Inspected:	12/14/2017
Inspected By:	Wade Wiltse
Inspectors State Card #	A-51051

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	576 SF	Garage Square Footage	NA
Basement Square Footage	576 SF	Garage Siding	NA
Siding	Wood	Garage Color	NA
Color	Dark Tan	Garage Shingles	NA
Roof Shingles	Asphalt	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



# Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-484-035  
House No. 1823 Linval St, Lansing, MI 48910  
Date Inspected: 12/14/2017

**TABLE 1**

## HAZARDOUS MATERIALS

<b>Material Description</b>	<b>Quantity &amp; Units</b>	<b>Location</b>
Hot Water Tank	1	Room 5
TV Screens, Monitors	3	Room 5
Thermostats	1	Room 2

## TIRE(s) REPORT

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

None observed above household quantities



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-21-484-035  
 House No. 1823 Linval St, Lansing, MI 48910  
 Date Inspected: 12/14/2017

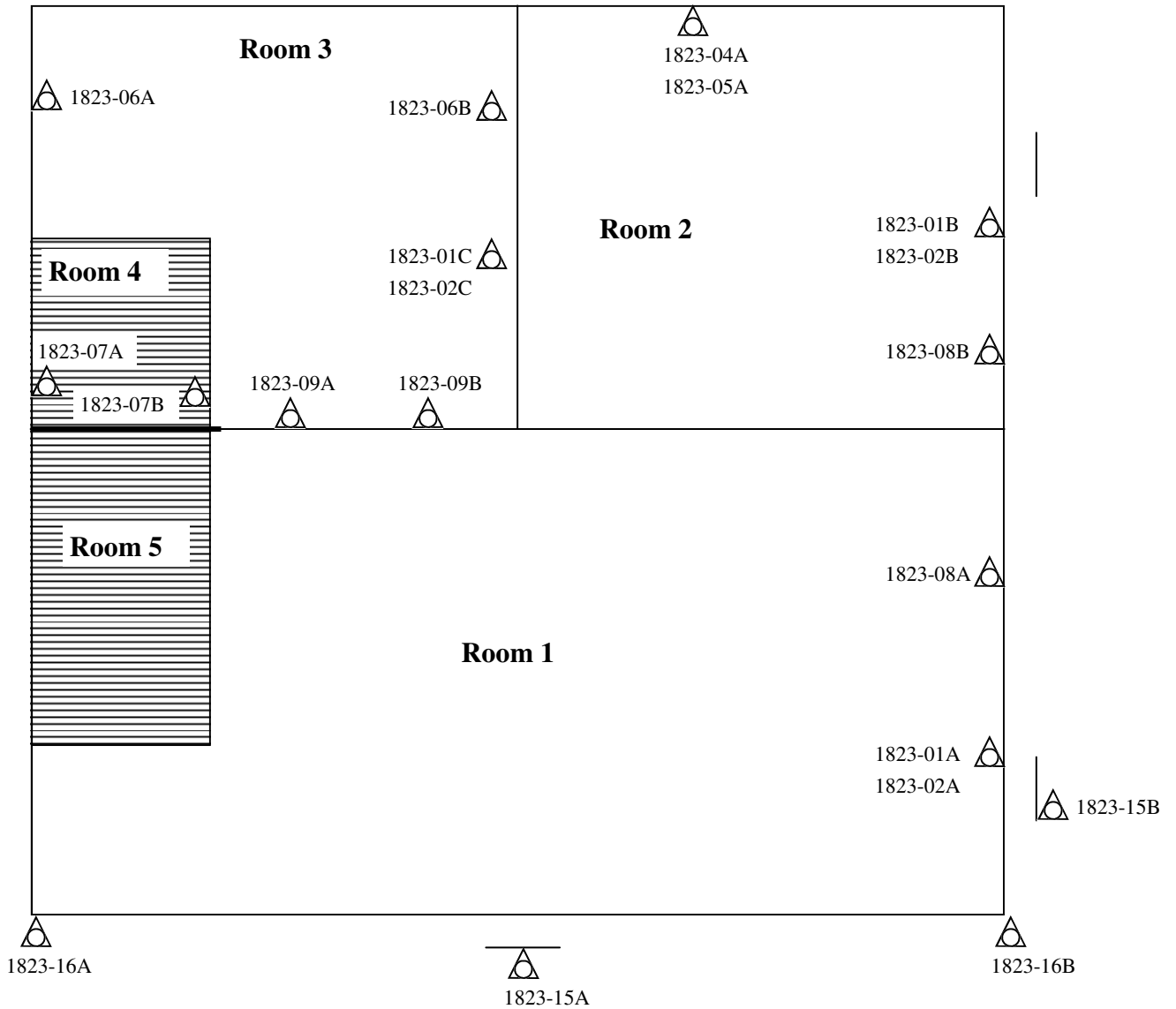
**TABLE 2**  
**SUSPECT ASBESTOS CONTAINING MATERIALS**


Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	<b>F</b>	<b>Wall skim, green</b>	<b>Throughout</b>	<b>3042 SF</b>	<b>YES</b>
2	F	Plaster, grey	Throughout	3042 SF	No
3	<b>F</b>	<b>Duct wrap, grey</b>	<b>Rooms 9, 10</b>	<b>4 SF</b>	<b>YES</b>
4	F	Tape, white	Throughout	40 SF	No
5	F	Mud, grey	Throughout	40 SF	No
6	NF	Drywall, white	Room 3	216 SF	No
7	NF	Wall tile, white	Room 4	72 SF	No
8	NF	Flooring, wood grain	Room 1, 2, 3	666 SF	No
9	NF	Floor tile, tan	Room 3	9 SF	No
10	NF	Mortar, grey	Room 5	720 SF	No
11	NF	Cement block, grey	Room 5	576 SF	No
12	NF	Cement floor, grey	Room 5	576 SF	No
13	NF	12x12 Tile, tan	Room 8	81 SF	No
14	F	House wrap, tan	Exterior	1920 SF	No
15	NF	Window caulk, white	Exterior	9 windows	No
16	NF	Asphalt shingle, black	Exterior	576 SF	No

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

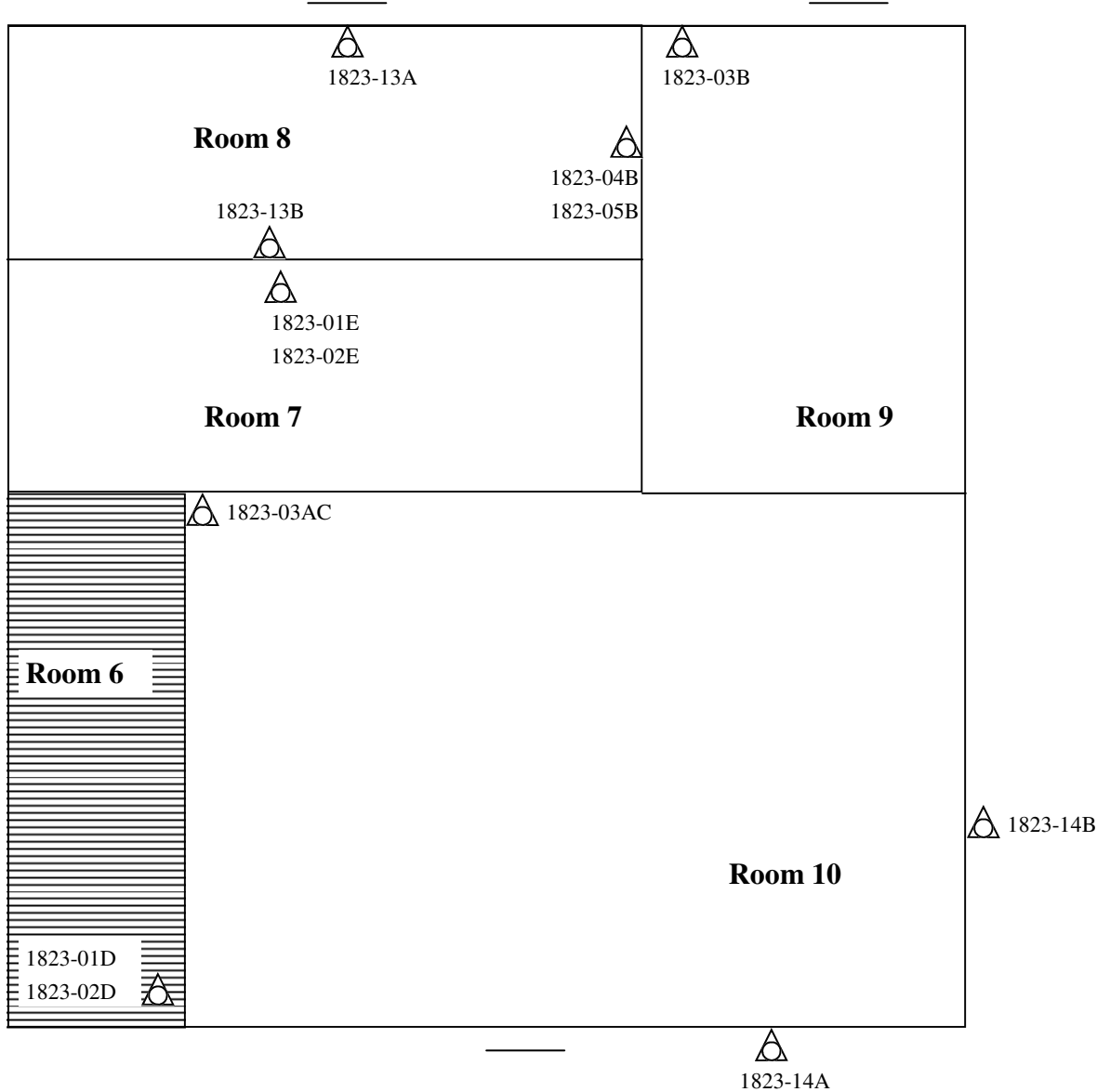
Attachment:


Site Drawing



 Sample Location

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

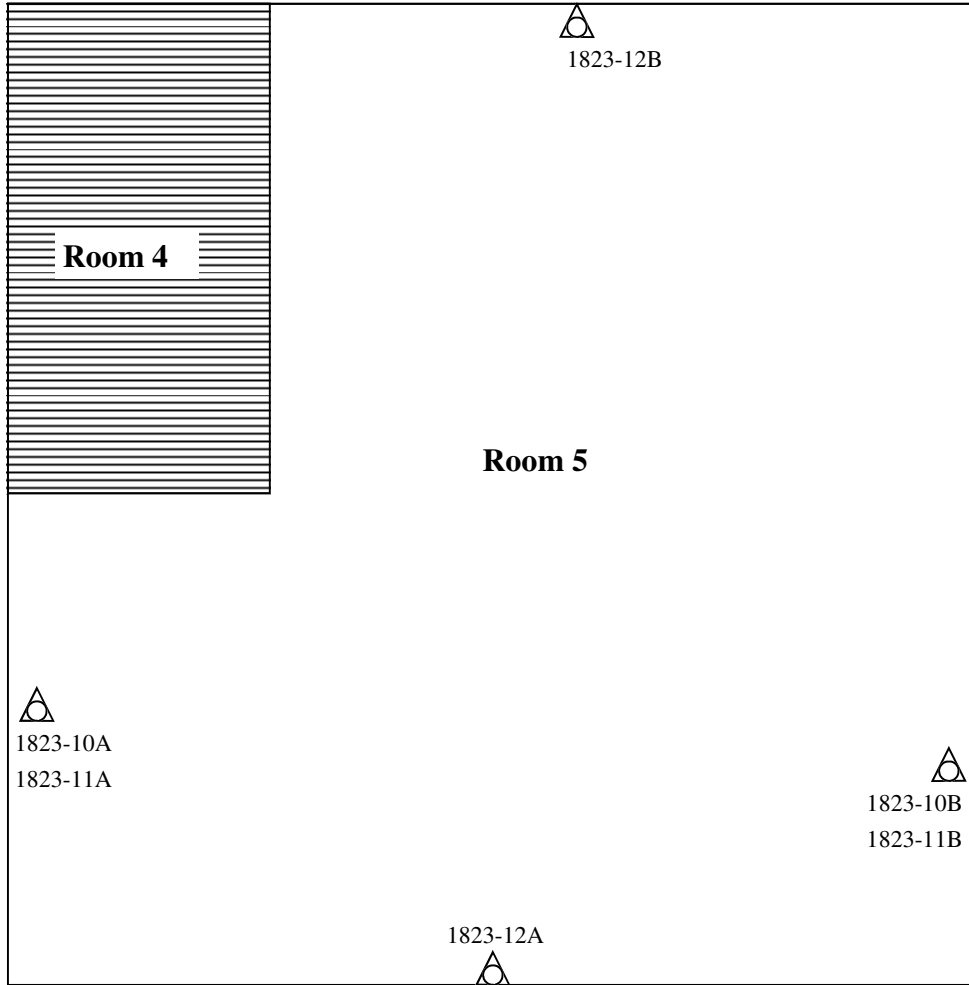



 Sample Location

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

**Basement**

33-01-01-21-484-035  
1823 Linval St, Lansing, MI 48910  
12/14/2017



 Sample Location

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

Ingham County Land Bank  
199856

Attachment:

Site Photographs

## Representative Pictures of House/Property

Parcel: 33-01-01-21-484-035  
House No. 1823 Linval St, Lansing, MI 48910  
Date Inspected: 12/14/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

## Representative Pictures of Hazardous Materials

Parcel: 33-01-01-21-484-035  
House No. 1823 Linval St, Lansing, MI 48910  
Date Inspected: 12/14/2017



Hot Water Tank, TV Screen



Thermostats



## Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-21-484-035
House No.	1823 Linval St, Lansing, MI 48910
Date Inspected:	12/14/2017



Wall skim, green



Duct wrap, grey

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 :  
1823 Linval St, Lansing, MI

**Attention :**

Client Project : 33-01-01-21-484-035

ETC Job : 199856

Report Date : 12/19/2017

Login #	Sample ID	Work Requested	Completed
639660	01A	Asbestos Analysis	12/19/2017
639661	01B	Asbestos Analysis	12/19/2017
639662	01C	Asbestos Analysis	12/19/2017
639663	01D	Asbestos Analysis	12/19/2017
639664	01E	Asbestos Analysis	12/19/2017
639665	02A	Asbestos Analysis	12/19/2017
639666	02B	Asbestos Analysis	12/19/2017
639667	02C	Asbestos Analysis	12/19/2017
639668	02D	Asbestos Analysis	12/19/2017
639669	02E	Asbestos Analysis	12/19/2017
639670	3A	Asbestos Analysis	12/19/2017
639671	3B	Asbestos Analysis	12/19/2017
639672	3C	Asbestos Analysis	12/19/2017
639673	04A	Asbestos Analysis	12/19/2017
639674	04B	Asbestos Analysis	12/19/2017
639675	05A	Asbestos Analysis	12/19/2017
639676	05B	Asbestos Analysis	12/19/2017
639677	06A	Asbestos Analysis	12/19/2017
639678	06B	Asbestos Analysis	12/19/2017
639679	07A	Asbestos Analysis	12/19/2017

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

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Login #	Sample ID	Work Requested	Completed
639680	07B	Asbestos Analysis	12/19/2017
639681	08A	Asbestos Analysis	12/19/2017
639682	08B	Asbestos Analysis	12/19/2017
639683	09A	Asbestos Analysis	12/19/2017
639684	09B	Asbestos Analysis	12/19/2017
639685	10A	Asbestos Analysis	12/19/2017
639686	10B	Asbestos Analysis	12/19/2017
639687	11A	Asbestos Analysis	12/19/2017
639688	11B	Asbestos Analysis	12/19/2017
639689	12A	Asbestos Analysis	12/19/2017
639690	12B	Asbestos Analysis	12/19/2017
639691	13A	Asbestos Analysis	12/19/2017
639692	13B	Asbestos Analysis	12/19/2017
639693	14A	Asbestos Analysis	12/19/2017
639694	14B	Asbestos Analysis	12/19/2017
639695	15A	Asbestos Analysis	12/19/2017
639696	15B	Asbestos Analysis	12/19/2017
639697	16A	Asbestos Analysis	12/19/2017
639698	16B	Asbestos Analysis	12/15/2017

---

Reviewed by:



Quality Assurance Coordinator

## Polarized Light Microscopy Asbestos Analysis Report

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

**Location :**  
 1823 Linval St, Lansing, MI

**ETC Job :** 199856  
**Client Project :** 33-01-01-21-484-035  
**Date Collected :** 12/14/2017  
**Date Received :** 12/15/2017  
**Date Analyzed :** 12/19/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
639660 01A 1 S Wall Analyst: Jessica Dilworth	Wall Skim	White Non-Fibrous Homogenous	7% Cellulose	88% Other	5% Chrysotile
639661 01B 2 S Wall Analyst: Jessica Dilworth		Not Analyzed			
639662 01C 3 S Wall Analyst: Jessica Dilworth		Not Analyzed			
639663 01D 6 N Wall Analyst: Jessica Dilworth		Not Analyzed			
639664 01E 7 E Wall Analyst: Jessica Dilworth		Not Analyzed			
639665 02A 1 S Wall Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
639666 02B 2 S Wall Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% 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 :**  
 1823 Linval St, Lansing, MI

**ETC Job :** 199856  
**Client Project :** 33-01-01-21-484-035  
**Date Collected :** 12/14/2017  
**Date Received :** 12/15/2017  
**Date Analyzed :** 12/19/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
639667 02C 3 S Wall Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
639668 02D 6 N Wall Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
639669 02E 7 E Wall Analyst: Jessica Dilworth	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
639670 3A 9 W Floor Vent Analyst: Jessica Dilworth	Duct Wrap	White/Black Fibrous Homogenous	50% Cellulose	15% Other	35% Chrysotile
639671 3B 10 E Floor Vent Analyst: Jessica Dilworth		Not Analyzed			
639672 3C 9 W Floor Vent Analyst: Jessica Dilworth		Not Analyzed			
639673 04A 2 E Wall Analyst: Jessica Dilworth	Tape	White/Brown Fibrous Homogenous	90% Cellulose	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 :**  
 1823 Linval St, Lansing, MI

**ETC Job :** 199856  
**Client Project :** 33-01-01-21-484-035  
**Date Collected :** 12/14/2017  
**Date Received :** 12/15/2017  
**Date Analyzed :** 12/19/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
639674 04B 8 S Wall Analyst: Jessica Dilworth	Tape	White/Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
639675 05A 2 E Wall Analyst: Jessica Dilworth	Mud	White Non-Fibrous Homogenous	3% Cellulose	97% Other	PC None Detected
Not enough material for accurate pc					
639676 05B 8 S Wall Analyst: Jessica Dilworth	Mud	White Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
639677 06A 3 N Side Ceiling Analyst: Jessica Dilworth	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
639678 06B 3 S Side Ceiling Analyst: Jessica Dilworth	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
639679 07A 4 N Side Wall Analyst: Jessica Dilworth	Wall Tile	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
639680 07B 4 S Side Wall Analyst: Jessica Dilworth	Wall Tile	Brown Fibrous Homogenous	95% Cellulose	5% 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 :**  
 1823 Linval St, Lansing, MI

**ETC Job :** 199856  
**Client Project :** 33-01-01-21-484-035  
**Date Collected :** 12/14/2017  
**Date Received :** 12/15/2017  
**Date Analyzed :** 12/19/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
639681 08A 1 S Side Floor Analyst: Jessica Dilworth	Flooring	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
639682 08B 2 S Side Floor Analyst: Jessica Dilworth	Flooring	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
639683 09A 3 W Side Floor Analyst: Jessica Dilworth	Floor Tile	Tan Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
639684 09B 3 W Side Floor Analyst: Jessica Dilworth	Floor Tile	Tan Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
639685 10A N Side Wall Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
639686 10B S Side Wall Analyst: Jessica Dilworth	Mortar	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
639687 11A N Side Wall Analyst: Jessica Dilworth	Cement Block	Grey Non-Fibrous Homogenous	3% Cellulose	97% 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 :**  
 1823 Linval St, Lansing, MI

**ETC Job :** 199856  
**Client Project :** 33-01-01-21-484-035  
**Date Collected :** 12/14/2017  
**Date Received :** 12/15/2017  
**Date Analyzed :** 12/19/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
639688 11B S Side Wall Analyst: Jessica Dilworth	Cement Block	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
639689 12A W Side Floor Analyst: Jessica Dilworth	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
639690 12B E Side Floor Analyst: Jessica Dilworth	Cement Floor	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
639691 13A E Side Floor Analyst: Jessica Dilworth	12x12 Tile	Tan Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
639692 13B W Side Floor Analyst: Jessica Dilworth	12x12 Tile	Tan Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
639693 14A W Ext Analyst: Jessica Dilworth	House Wrap	Brown Fibrous Homogenous	97% Cellulose	3% Other	None Detected
639694 14B S Ext Analyst: Jessica Dilworth	House Wrap	Brown Fibrous Homogenous	97% Cellulose	3% 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

**ETC Job :** 199856  
**Client Project :** 33-01-01-21-484-035  
**Date Collected :** 12/14/2017  
**Date Received :** 12/15/2017  
**Date Analyzed :** 12/19/2017

**Location :**  
 1823 Linval St, Lansing, MI

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
639695 15A W Ext Analyst: Jessica Dilworth	Window Caulk	White Non-Fibrous Homogenous	35% Cellulose	65% Other	None Detected
639696 15B S Analyst: Jessica Dilworth	Window Caulk	White Non-Fibrous Homogenous	35% Cellulose	65% Other	None Detected
639697 16A NW Ext Roof Analyst: Jessica Dilworth	Asphalt Shingle	Black Non-Fibrous Homogenous	80% Cellulose	20% Other	None Detected
639698 16B SW Ext Roof Analyst: Jessica Dilworth	Asphalt Shingle	Black Non-Fibrous Homogenous	80% Cellulose	20% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Jessica Dilworth

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.2etil.com

**Bulk Asbestos  
 Chain of Custody**

ETL Project #: 199856

<b>Client:</b> ETC	<b>Contact:</b>	<b>Project Location/name:</b> 1823 Linval
<b>Address:</b> 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	<b>Phone:</b> (734) 955-6600 <b>Fax:</b> (734) 955-6604 <b>E-mail:</b> results@2etil.com	<b>Client Project #:</b> 199856
<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> 12/14/17

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

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

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

\* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	01, ABCDE	Please see attached	
	02 ↓ ABCDE		
	03 ABC		
	04, AB		
	16 AB		

		Date	Time
Relinquished (Name/Organization):	Wood & Welbe ETC	12/14/17	am/pm
Received (Name/ETL):	Kristina Walls	12/15/17	am/pm
Stereoscopic Analysis (Name/ETL):	Jessica Durbin		am/pm
Sample Login (Name/ETL):	Rosemary Smith	12.19.17	am/pm
Analysis (Name/ETL):	Jessica Durbin		am/pm
QA/QC Review (Name/ETL):	Kr	12/19/17	am/pm

<b>Special Instructions:</b> Please point count anything less than 30%	<b>Remarks</b>
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# Asbestos Material Sampling Summary Sheet TSI (Thermal System Insulation) materials

Revision date 5/7/2015

Job #:	Building: 1823 Linval		Date:	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location		
3	Material: Duct wrap	Y	A	9 W Floor vent	8 LF	
	Description		B	10 E Floor vent		
	Material: White Block		C	9 W Floor vent		
	Material: Description					
	Material: Description					
	Material: Description					
	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 5/7/2015

Job #:	Material Description		Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located Throughout Bldg (Please List all Rooms)	Quantity	Picture #
199856	Building: 1823 Inval							
056	Material: tape		F	A	2 E wall	throughout	96 LF	
	Description: White			B	8 S wall			
057	Material: mwd		F	A	2 E wall	throughout	96 FL	
	Description: Grey			B	6 S wall			
060	Material: Dry wall		N	A	3N side Ceiling	3	216	
	Description: White			B	3S side Ceiling			
070	Material: wall tile		N	A	4 N side wall	4	72	
	Description: White			B	4 S side wall			
080	Material: flooring		N	A	1 S side floor	1/2/3	666	
	Description: Wood Grain			B	2 S side floor			
090	Material: floor tile		N	A	3 W side floor	3	9	
	Description: tan			B	3 W side floor			
100	Material: mortar		N	A	N side wall	5	500	
	Description: grey			B	S side wall		4 Inches	
110	Material: Cement Block		N	A	N side wall	5	576	
	Description: grey			B	S side wall			
120	Material: Cement Floor		N	A	side floor	5	576	
	Description: grey			B	side floor			
130	Material: 12 x 12 tile		N	A	E side floor	8	81	
	Description: tan			B	W side floor			

# Asbestos Material Sampling Summary Sheet

## Miscellaneous materials

Revision date 5/7/2015

Job #:	Material Description		Friable (F)/ Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout Bldg (Please List all Rooms)	Quantity	Picture #
14	Material: House wrap		Y	A	W Ext	EXT	1920	
	Description: tan			B	S Ext			
15	Material: Window caulk		N	A	W Ext	ext	9 units	
	Description:			B	S			
16	Material: Asphalt shingle		N	A	NW ext Roof	ext	576	
	Description:			B	SW ext Roof	Roof		
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				
	Material: Description:			A				
	Material: Description:			B				

Attachment:

Inspection Procedures



# **Pre-Demolition Environmental Inspection Procedures**

## **HAZARDOUS MATERIALS INSPECTION**

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

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

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

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

## **ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION**

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

### **Asbestos Inspection**

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

### **Sample Collection**

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

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

## **Pre-Demolition Environmental Inspection Procedures**

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

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

### **Laboratory Analysis / Results**

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

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

### **SIGNATURE**

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



Prepared by: \_\_\_\_\_

Wade Wiltse, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-51051