

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-05-376-201
House No:	5861 S MLK Blvd, Lansing, MI 48911
Date Inspected:	11/22/2017
Inspected By:	Bryan Dryer
Inspectors State Card #	A-40292

Building Information			
No. Stories	2	Garage	No Garage
Square Footage	1100 SF	Garage Square Footage	NA
Basement Square Footage	675 SF	Garage Siding	NA
Siding	Wood	Garage Color	NA
Color	Brown	Garage Shingles	NA
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

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TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Water Heater	1	Room 9
TV Screen	2	Room 14
Fire Extinguisher	1	Room 4
Light Ballast	1	Room 3
Smoke Detector	1	Room 8
Florescent Light Bulb (and ballast)	2	Room 3

TIRE(s) REPORT

Material	Quantity & Units	Location
Tire	1	Exterior

Pre-Demolition Environmental Inspection Summary Report

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TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	F	Duct wrap, white fibrous	Throughout	100 LF	YES
2	NF	Stacked cement, grainy grey	Room 9	2 SF	No
3	NF	Poured concrete, grainy grey	Room 9	670 SF	No
4	NF	Sink undercoat, black	Room 4	6 SF	YES
5	NF	12x12 Peel and stick, wood grain	Room 4, 11	100 SF	No
6	NF	12x12 Floor tile, blue and white	Room 4, 13	200 SF	No
7	F	2x4 Drop in ceiling panel, white with worm holes	Room 3, 7	210 SF	No
8	F	12x12 Ceiling tile, white with worm holes	Room 4, 6, 11, 15	340 SF	No
9	NF	Glue pod, brown	Room 4	340 SF	No
10	F	Textured plaster, white ripple	Room 8	275 SF	YES
11	F	24x24 Ceiling tile, cream	Room 1, 3, 7	350 SF	No
12	NF	Wire (electrician) insulation, white	Throughout	100 SF	No
13	F	Rough plaster, grainy grey	Room 1-3, 5, 7, 10	1600 SF	YES
14	NF	Floor leveler, yellow	Room 6	30 SF	No
15	F	Vapor barrier, black	Room 6	50 SF	No
16	NF	12x12 Floor tile, blue and white	Room 6	50 SF	No
17	NF	12x12 Floor tile, blue and white	Room 7	80 SF	No
18	F	Fiber board, brown fibrous	Throughout second floor	1000 SF	No
19	NF	12x12 Floor tile, yellow	Room 12	60 SF	YES
20	NF	Mastic, black	Room 12	60 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.

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Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
21	F	Popcorn ceiling, white	Room 15	125 SF	No
22	F	Wall board drywall, white with paper	Room 15 (East wall)	115 SF	No
23	F	Drywall mud, white chalky	Room 15 (East wall)	15 SF	No
24	NF	Drywall tape, white	Room 15 (East wall)	15 SF	No
25	NF	Window caulk, grey putty	Throughout second floor	7 windows	No
26	NF	12x12 Floor tile, white	Room 14	150 SF	No
27	F	Vapor barrier, white paper	Exterior (house)	2000 SF	No
28	NF	Asphalt shingle, black	Exterior (roof)	160 SF	No
29	NF	Window glaze, white putty	Exterior	27 windows	YES

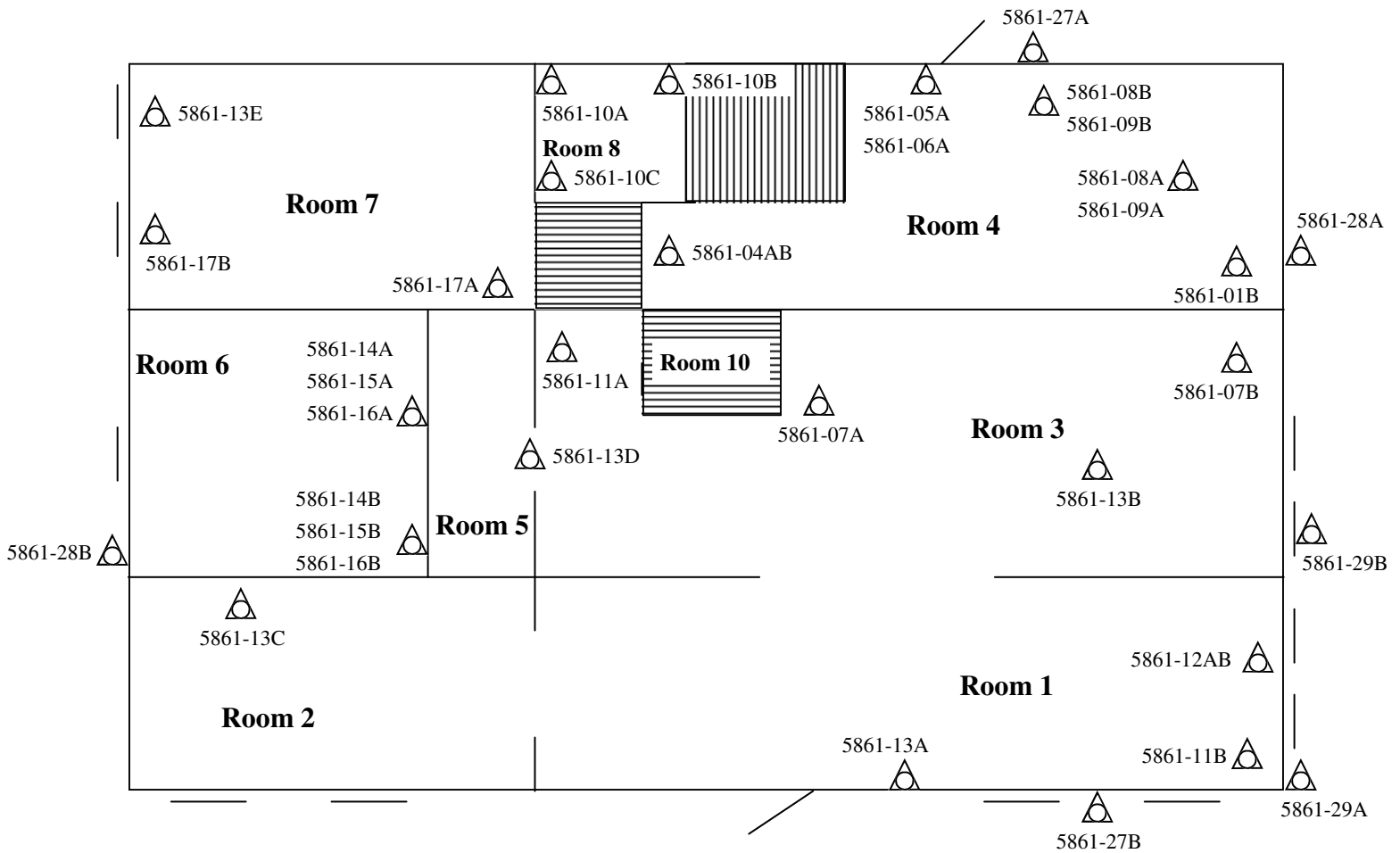
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

1st floor

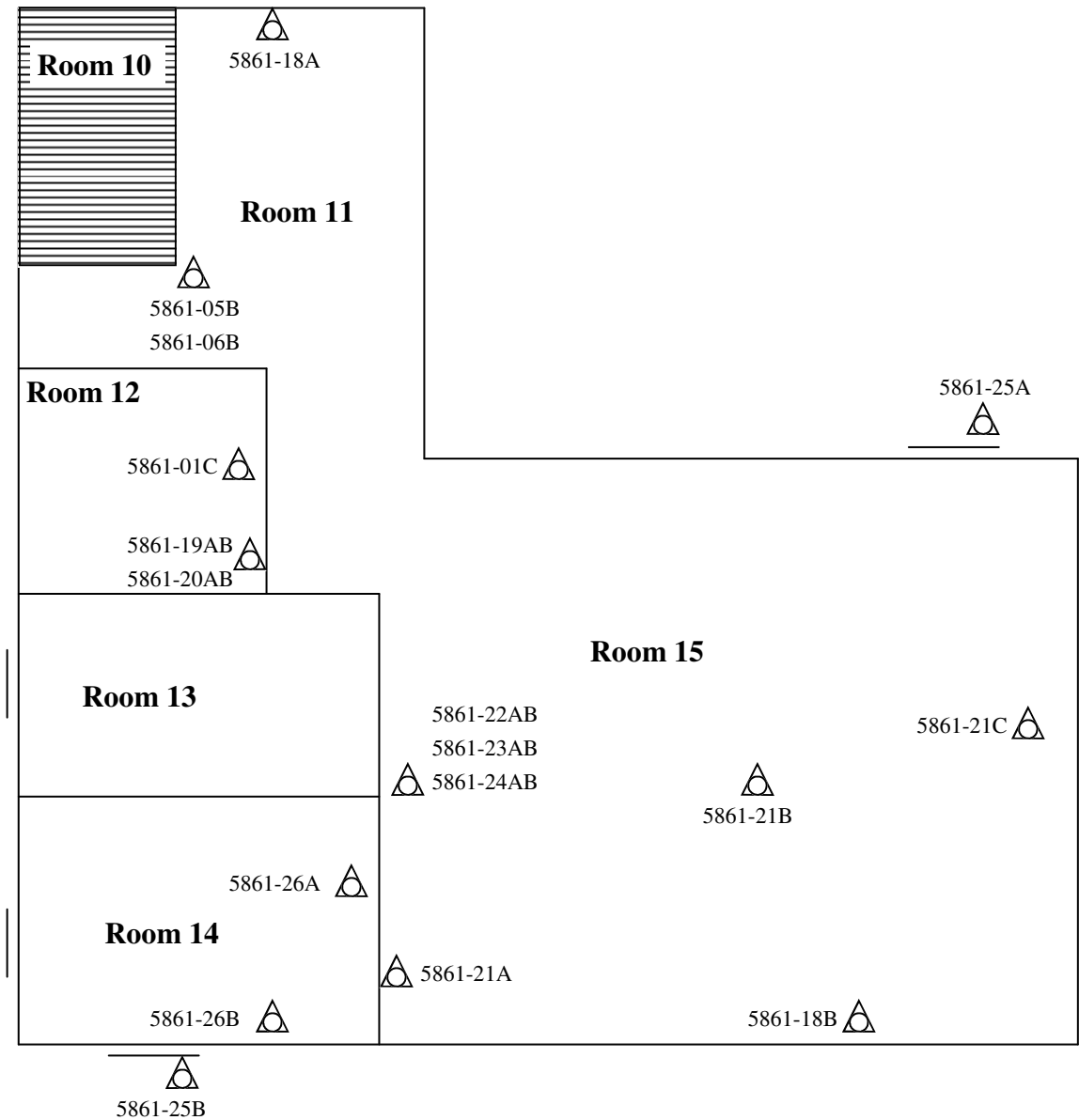
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5861 S MLK Blvd, Lansing, MI 48911
11/22/2017



 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
199883

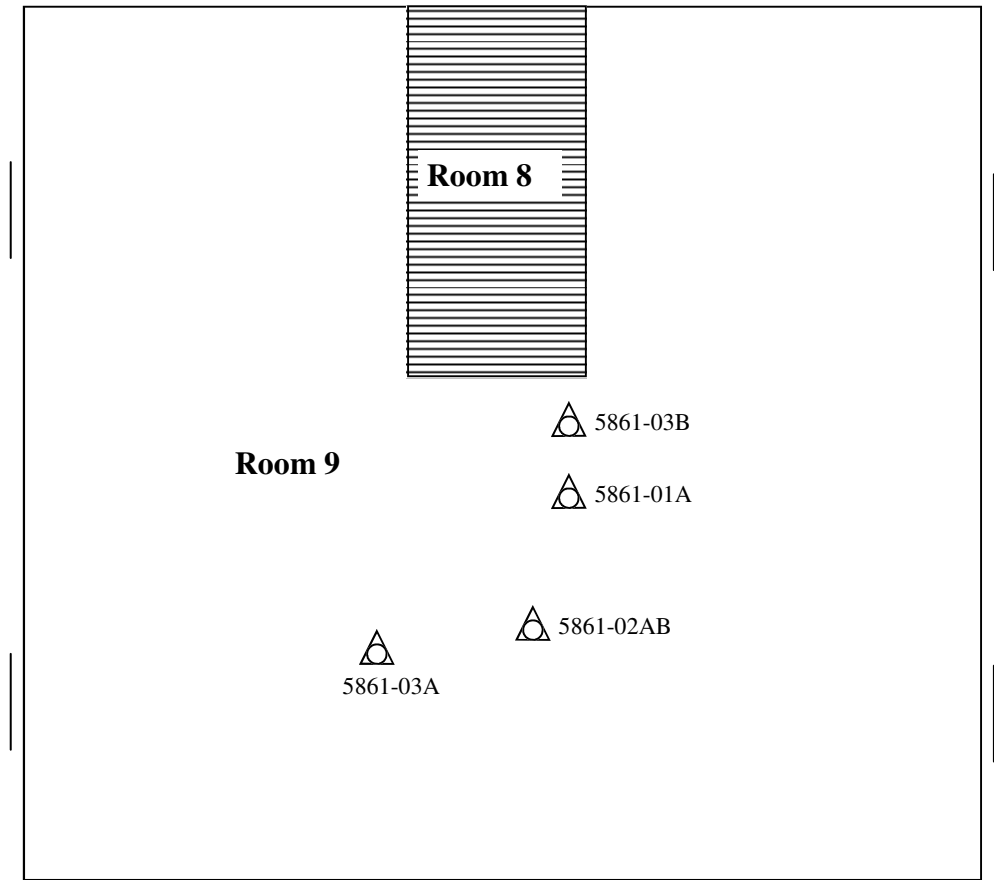


N



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.



N



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:	33-01-05-376-201
House No.	5861 S MLK Blvd, Lansing, MI 48911
Date Inspected:	11/22/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of Hazardous Materials

Parcel:	33-01-05-376-201
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Water Heater



TV Screen



Fire Extinguisher



Florescent Light Bulb, Light Ballast

Representative Pictures of Hazardous Materials

Parcel:	33-01-05-376-201
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Smoke Detector



Tire

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-05-376-201
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Duct Wrap



Sink Undercoat



Textured Plaster



Rough Plaster

Representative Pictures of Asbestos Containing Materials

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12x12 Floor Tile, yellow



Window Glaze

Attachment:

Laboratory Analytical Results

ENVIRONMENTAL TESTING LABORATORIES, INC.



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

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Project Location :

5861 S MLK Blvd, Lansing, MI

Attention :

Client Project : 33-01-05-376-201

ETC Job : 199883

Report Date : 12/4/2017

Login #	Sample ID	Work Requested	Completed
629959	1A	Asbestos Analysis	12/04/2017
629960	1B	Asbestos Analysis	12/04/2017
629961	1C	Asbestos Analysis	12/04/2017
629962	2A	Asbestos Analysis	12/04/2017
629963	2B	Asbestos Analysis	12/04/2017
629964	3A	Asbestos Analysis	12/04/2017
629965	3B	Asbestos Analysis	12/04/2017
629966	4A	Asbestos Analysis	12/04/2017
629967	4B	Asbestos Analysis	12/04/2017
629968	5A	Asbestos Analysis	12/04/2017
629969	5B	Asbestos Analysis	12/04/2017
629970	6A	Asbestos Analysis	12/04/2017
629971	6B	Asbestos Analysis	12/04/2017
629972	7A	Asbestos Analysis	12/04/2017
629973	7B	Asbestos Analysis	12/04/2017
629974	8A	Asbestos Analysis	12/04/2017
629975	8B	Asbestos Analysis	12/04/2017
629976	9A	Asbestos Analysis	12/04/2017
629977	9B	Asbestos Analysis	12/04/2017
629978	11A	Asbestos Analysis	12/04/2017

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Login #	Sample ID	Work Requested	Completed
629979	11B	Asbestos Analysis	12/04/2017
629980	12A	Asbestos Analysis	12/04/2017
629981	12B	Asbestos Analysis	12/04/2017
629982	14A	Asbestos Analysis	12/04/2017
629983	14B	Asbestos Analysis	12/04/2017
629984	15A	Asbestos Analysis	12/04/2017
629985	15B	Asbestos Analysis	12/04/2017
629986	16A	Asbestos Analysis	12/04/2017
629987	16B	Asbestos Analysis	12/04/2017
629988	17A	Asbestos Analysis	12/04/2017
629989	17B	Asbestos Analysis	12/04/2017
629990	18A	Asbestos Analysis	12/04/2017
629991	18B	Asbestos Analysis	12/04/2017
629992	19A	Asbestos Analysis	12/04/2017
629993	19B	Asbestos Analysis	12/04/2017
629994	20A	Asbestos Analysis	12/04/2017
629995	20B	Asbestos Analysis	12/04/2017
629996	22A	Asbestos Analysis	12/04/2017
629997	22B	Asbestos Analysis	12/04/2017
629998	23A	Asbestos Analysis	12/04/2017
629999	23B	Asbestos Analysis	12/04/2017
630000	24A	Asbestos Analysis	12/04/2017
630001	24B	Asbestos Analysis	12/04/2017
630002	25A	Asbestos Analysis	12/04/2017
630003	25B	Asbestos Analysis	12/04/2017
630004	26A	Asbestos Analysis	12/04/2017
630005	26B	Asbestos Analysis	12/04/2017

Login #	Sample ID	Work Requested	Completed
630006	27A	Asbestos Analysis	12/04/2017
630007	27B	Asbestos Analysis	12/04/2017
630008	28A	Asbestos Analysis	12/04/2017
630009	28B	Asbestos Analysis	12/04/2017
630010	29A	Asbestos Analysis	12/04/2017
630011	29B	Asbestos Analysis	12/04/2017
630012	10A	Asbestos Analysis	12/04/2017
630013	10B	Asbestos Analysis	12/04/2017
630014	10C	Asbestos Analysis	12/04/2017
630015	13A	Asbestos Analysis	12/04/2017
630016	13B	Asbestos Analysis	12/04/2017
630017	13C	Asbestos Analysis	12/04/2017
630018	13D	Asbestos Analysis	12/04/2017
630019	13E	Asbestos Analysis	12/04/2017
630020	21A	Asbestos Analysis	12/04/2017
630021	21B	Asbestos Analysis	12/04/2017
630022	21C	Asbestos Analysis	12/04/2017

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 :
 5861 S MLK Blvd, Lansing, MI

ETC Job : 199883
Client Project : 33-01-05-376-201
Date Collected : 11/22/2017
Date Received : 11/27/2017
Date Analyzed : 12/04/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629959 1A Basement (9) Above Furnace Analyst: Alice Turner	Duct Wrap	White Fibrous Homogenous	40% Cellulose	45% Other	15% Chrysotile
629960 1B Kitchen (4) W. Wall @ Door Analyst: Alice Turner		Not Analyzed			
629961 1C Rm. 12 (2nd Flr) W. Wall @ Door Analyst: Alice Turner		Not Analyzed			
629962 2A Basement 9, @ Chimney Analyst: Alice Turner	Stack Cement	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
629963 2B Basement 9, @ Chimney Analyst: Alice Turner	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629964 3A Basement 9, @ Center Analyst: Alice Turner	Poured Concrete	Grey Non-Fibrous Homogenous	8% Cellulose	92% Other	None Detected
629965 3B Basement 9, @ Furnace Analyst: Alice Turner	Poured Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629966 4A Kitchen 4, E. Wall Analyst: Alice Turner	Sink Undercoat	Black Non-Fibrous Homogenous	2% Cellulose	94% Other	4% Chrysotile
629967 4B Kitchen 4, E. Wall Analyst: Alice Turner		Not Analyzed			
629968 5A Kitchen 4, @ S. Door Analyst: Alice Turner	12x12 Press & Stick	Wood Grain Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629969 5B Hallway 11, @ Top of Stairs Layer-1 Analyst: Alice Turner	12x12 Press & Stick	Wood Grain Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629969 5B Hallway 11, @ Top of Stairs Layer-2 Analyst: Alice Turner	Floor Tile #2	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629970 6A As 5A, Above Analyst: Alice Turner	12x12 Floor Tile	Blue/White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
629971 6B As 5B, Above Analyst: Alice Turner	12x12 Floor Tile	Blue/White Fibrous Homogenous	80% Cellulose	20% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629972 7A Dining Rm 3 @ SE Corner Analyst: Alice Turner	Drop In Ceiling Panel	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
629973 7B Dining Rm 3 @ NW Corner Analyst: Alice Turner	Drop In Ceiling Panel	White Fibrous Homogenous	70% Cellulose	30% Other	None Detected
629974 8A Kitchen 4, @ E. of Light Analyst: Alice Turner	12x12 Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
629975 8B Kitchen 4, S. Wall @ Door Analyst: Alice Turner	12x12 Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
629976 9A As 8A, Above Analyst: Alice Turner	Glue Pod	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629977 9B As 8B, Above Analyst: Alice Turner	Glue Pod	Brown Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629978 11A Dining Rm 3, SE Corner Analyst: Renee Renauer	Ceiling Tile	Creame Fibrous Homogenous	98% Cellulose	2% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629979 11B Living Rm 1, NW Corner Analyst: Renee Renauer	Ceiling Tile	Creame Fibrous Homogenous	98% Cellulose	2% Other	None Detected
629980 12A Living Rm 1 @ NW Corner Analyst: Renee Renauer	Wire Insulation	White Fibrous Homogenous	20% Cellulose	80% Other	None Detected
629981 12B Living Rm 1 @ NW Corner Analyst: Renee Renauer	Wire Insulation	White Fibrous Homogenous	20% Cellulose	80% Other	None Detected
629982 14A Bathroom 6 @ Door Analyst: Renee Renauer	Floor	Yellow Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
629983 14B Bathroom 6 @ W. Wall Analyst: Renee Renauer	Floor	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
629984 15A As 14A, Above Analyst: Renee Renauer	Vapor Barrier	Black Fibrous Homogenous	99% Cellulose	1% Other	None Detected
629985 15B As 14B, Above Analyst: Renee Renauer	Vapor Barrier	Black Fibrous Homogenous	99% Cellulose	1% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
629986 16A As 14A, Above Analyst: Renee Renauer	12x12 Floor Tile	Blue/White Non-Fibrous Homogenous		100% Other	None Detected
629987 16B As 14B, Above Analyst: Renee Renauer	12x12 Floor Tile	Blue/White Non-Fibrous Homogenous		100% Other	None Detected
629988 17A Bdrm 7, @ Door Analyst: Renee Renauer	12x12 Floor Tile	Blue/White Non-Fibrous Homogenous		100% Other	None Detected
629989 17B Bdrm 7, @ E. Wall Analyst: Renee Renauer	12x12 Floor Tile	Blue/White Non-Fibrous Homogenous		100% Other	None Detected
629990 18A Hall 11, S. Wall Analyst: Renee Renauer	Fiber Base	Brown Fibrous Homogenous	100% Cellulose		None Detected
629991 18B Rm #15, N. Wall Analyst: Renee Renauer	Fiber Base	Brown Fibrous Homogenous	100% Cellulose		None Detected
629992 19A Bath 12, @ Door Analyst: Renee Renauer	12x12 Floor Tile	Yellow Non-Fibrous Homogenous		97% Other	3% Chrysotile

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629993 19B Bath 12, @ Door Analyst: Renee Renauer		Not Analyzed			
629994 20A As 19A, Above Analyst: Renee Renauer	Mastic	Black Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
629995 20B As 19B, Above Analyst: Renee Renauer	Mastic	Black Non-Fibrous Homogenous	30% Cellulose	70% Other	None Detected
629996 22A Bd. 15, E. Wall Analyst: Renee Renauer	Wallboard	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
629997 22B Bd. 15, E. Wall Analyst: Renee Renauer	Wallboard	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
629998 23A As 22A Above Analyst: Renee Renauer	Drywall Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
629999 23B As 22B Above Analyst: Renee Renauer	Drywall Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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630000 24A As 22A Above Analyst: Renee Renauer	Drywall Tape	White Fibrous Homogenous	100% Other fibrous		None Detected
630001 24B As 22B Above Analyst: Renee Renauer	Drywall Tape	White Fibrous Homogenous	100% Other fibrous		None Detected
630002 25A Rm 15, S. Window Analyst: Renee Renauer	Window Caulk	Grey Non-Fibrous Homogenous		100% Other	None Detected
630003 25B Bdrm 14, W. Window Analyst: Renee Renauer	Window Caulk	Grey Non-Fibrous Homogenous		100% Other	None Detected
630004 26A Bdrm 14 @ Door Analyst: Renee Renauer	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630005 26B Bdrm 14, Under Window Analyst: Renee Renauer	12x12 Floor Tile	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630006 27A Ext. House, S. Wall Analyst: Renee Renauer	Vapor Barrier	Brown Fibrous Homogenous	100% Cellulose		None Detected

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630007 27B Ext. House, N. Wall Analyst: Renee Renauer	Vapor Barrier	Brown Fibrous Homogenous	100% Cellulose		None Detected
630008 28A Ext. Drip Line, W. Side Analyst: Renee Renauer	Asphalt Shingle	Black Non-Fibrous Homogenous	5% Fiberglass	95% Other	None Detected
630009 28B Ext. Drip Line, E. Side Analyst: Renee Renauer	Asphalt Shingle	Black Non-Fibrous Homogenous	5% Fiberglass	95% Other	None Detected
630010 29A Ext. 1st Floor, S. Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630011 29B Ext. 1st Floor, W. Window Analyst: Renee Renauer	Window Glaze	White Non-Fibrous Homogenous		98% Other	2% Chrysotile
** 29A & 29B are different glazes					
630012 10A Landing 8, @ Ceiling Analyst: Alice Turner	Textured Plaster	White Non-Fibrous Homogenous	2.25% Cellulose	96.75% Other	PC 1% Chrysotile
630013 10B Stairs 10 @ W. Wall Analyst: Alice Turner	Textured Plaster	White Non-Fibrous Homogenous	9.75% Cellulose	88.75% Other	PC 1.5% Chrysotile

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630014 10C Stairs 10 @ E. Wall Analyst: Alice Turner		Not Analyzed			
630015 13A Living Rm 1, Wall (N) Analyst: Renee Renauer	Rough Plaster	Grey Non-Fibrous Homogenous		99.25% Other	PC 0.75% Chrysotile
630016 13B Dining Rm 3, Ceiling Analyst: Renee Renauer	Rough Plaster	Grey Non-Fibrous Homogenous		96.75% Other	PC 3.25% Chrysotile
630017 13C Bdrm 2, Wall (S) Analyst: Renee Renauer		Not Analyzed			
630018 13D Hallway 5, W. Wall Analyst: Renee Renauer		Not Analyzed			
630019 13E Bdrm 7, E. Wall Analyst: Renee Renauer		Not Analyzed			
630020 21A Bdrm 15, @ E. Wall Analyst: Renee Renauer	Popcorn Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected



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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630021 21B Bdrm 15, @ Center Analyst: Renee Renauer	Popcorn Ceiling	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630022 21C Bdrm 15, @ W. Wall Analyst: Renee Renauer	Popcorn Ceiling	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Lab Supervisor/Other Signatory

Analyst: Alice Turner

Analyst: Renee Renauer

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

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

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

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

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

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.

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

ETL Project #: 199883

Client:	ETC	Contact:	LIV HADGEMAN	Project Location/name:	5861 S. MLK BLVD. LANSING, MI
		Phone:	(734) 955-6600		
Address:	721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax:	(734) 955-6604	Client Project #:	199883
		E-mail:	results@2etc.com		
Please Provide Results:		<input checked="" type="checkbox"/> Email	<input type="checkbox"/> Fax	<input type="checkbox"/> Verbal	<input type="checkbox"/> Other
				Date Sampled:	11-22-2017

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 *

[illegible]

	Date	Time
Relinquished (Name/Organization):	BRYAN DRYER <i>Bryan Dryer</i>	11-22-17 5:30 am/pm
Received (Name/ETL):	<i>[Signature]</i>	11/28/17 8:00 am/pm
Stereoscopical Analysis (Name/ETL):	<i>Alvin Rence</i>	11-28-17 am/pm
Sample Login (Name/ETL):	<i>[Signature]</i>	11/28/17 8:00 am/pm
Analysis (Name/ETL):	<i>Alvin Rence</i>	11-28-17 am/pm
QA/QC Review (Name/ETL):	<i>[Signature]</i>	12/4/17 am/pm

Special Instructions:	AT OR POINT COUNT POSITIVE RESULTS UNDER 3% <i>RM</i>	Remarks
-----------------------	--	---------

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

Revision date 5/7/2015

Job #: 199883		Building: 5861 S. MUK, ANSING		Date: 11/22/2017			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: Duct WRAP	F	A	BASEMENT (9) ABOVE FURNACE	629954 60 61		
	Description		B	KITCHEN (4) W. WALK @ DOOR			
			C	Rm. 12 (2nd flr) W. WALK @ DOOR			
	Material: WHITE / FIBERS						
	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 #: 199883		Building: 5861 W. MLK, LANSING		Date: 11/22/2017			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
2	Material: STACK CEMENT	NF	A	BASEMENT 9, @ CHIMNEY	9	2 ft ²	
	Description: GRAY, GRAINY		B	" " " 63			
3	Material: POURED CONCRETE	NF	A	BASEMENT 9, @ CENTER	9	670 ft ²	
	Description: GRAY, GRAINY		B	" " " 64			
4	Material: SINK WOODCOAT	NF	A	@ FURNACES	4	6 ft ²	
	Description: BLACK COATING		B	" " " 66			
5	Material: PRESSES + STICK TILES	NF	A	" " " 67	4, 11	100 ft ²	
	Description: WOOD GRAIN, 12" x 12"		B	KITCHEN 4, @ S. DOOR			
6	Material: FLOOR TILES	NF	A	HALLWAY 11, @ TOP OF STAIRS	4, 13	200 ft ²	
	Description: 12" x 12", BLUE + WHITE		B	AS 5A, ABOVE			
7	Material: DROP IN CEILING PANEL	F	A	AS 5B, ABOVE	3, 7	210 ft ²	
	Description: 2' x 4', WHITE w/ WARMHUES		B	DINING RM 3 @ SE CORNER			
8	Material: CEILING TILE	F	A	" " @ NW CORNER	4, 6, 11	340 ft ²	
	Description: 12" x 12", WHITE w/ FLOES		B	KITCHEN 4, @ S. of LIGHT			
9	Material: GLUE POOL	NF	A	S-WALL @ DOOR	4	340 ft ²	
	Description: BROWN ADHESIVE		B	AS 8A, ABOVE			
11	Material: CEILING TILE	P	A	AS 8B, ABOVE	1, 3, 7	350 ft ²	
	Description: 24" x 24", GREEN FIBERS		B	DINING RM 3, SE CORNER			
12	Material: WIRE (ELECTRICAL) INSULATION	NF	A	LIVING RM 1, NW CORNER	T.O.	100 ft ²	
	Description: WHITE, NOVEN		B	LIVING RM 1 @ NW CORNER			

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199883	Building:	5861 S. MLK, LANSING	Date:	1/22/2017		
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: floor LANTERN Description: yellow, cementitious	NF	A	BATH 6 @ DOOR 629982	BATH 6	50 ft ²	
15	Material: VAPOR BARRIER Description: BLACK PAPER	F	B	BATH 6 @ W. WALL 83	BATH 6	50 ft ²	
16	Material: FLOOR TILE Description: 12"x12", BLUE AND WHITE	NF	A	AS 14A, ABOVE 84	BATH 6	50 ft ²	
17	Material: FLOOR TILE Description: 12"x12", BLUE + WHITE	NF	B	AS 14B, ABOVE 85	BATH 6	50 ft ²	
18	Material: FLOOR COARSE Description: BROWN, FINE (WALLS)	F	A	AS 14A, ABOVE 86	BATH 6	50 ft ²	
19	Material: FLOOR TILE Description: 12"x12", YELLOW	NF	B	AS 14B, ABOVE 87	BATH 6	50 ft ²	
20	Material: MORTAR Description: BLACK, SOLID	NF	A	BATH 7, @ DOOR 88	BATH 7	80 ft ²	
22	Material: WALLBOARD Description: DAYTON, WHITE w/ PAPER	F	B	BATH 7, @ E. WALL 99	THROAT ROOM + 2nd Floor	1100 ft ²	
23	Material: DAYTON MINE Description: WHITE, CRACKY	F	A	HALL 11, S. WALL 90	BATH 12	60 ft ²	
24	Material: DAYTON TAPE Description: WHITE WEAVING	NF	B	AS 15, N. WALL 91	BATH 12	60 ft ²	
			A	BATH 12, @ DOOR 92	BATH 12	60 ft ²	
			B	" " " 93	BATH 12 (E. WALL)	115 ft ²	
			A	AS 19A, ABOVE 94	"	15 ft ²	
			B	AS 19B, ABOVE 95	"	15 ft ²	
			A	AS 22A, ABOVE 96	"	15 ft ²	
			B	AS 22B, ABOVE 97	"	15 ft ²	
			A	AS 22A, ABOVE 630000	"	15 ft ²	
			B	AS 22B, ABOVE 630001	"	15 ft ²	

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2017

Job #:	Building: 5801 S. MLK, LANINGA		Date: 11/22/2017				
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
25	Material: WINDOW CAULK Description: GRAY PUTTY	NF	A	Rm 15, S. WINDOW 630002	2nd floor	7	
26	Material: FLOOR TILE Description: 12"x12", WHITE	NF	B	Rm 14, W. WINDOW 03		150 ft ²	
27	Material: VAPOR BARRIER Description: WHITE PAPER	F	A	Bdr 14, @ Door		200 ft ²	
28	Material: ASPHALT SHINGLES Description: BLACK, VAR LIKE	NF	B	Bdr 14, W. WINDOW 05	Ext. House, S. WALL 06		
29	Material: WINDOW GLAZE (ext.) Description: EXT. WHITE PUTTY	NF	A	Ext. House, N. WALL 07	Ext. House, N. WALL 08		
	Material: Description:		B	Ext. Drip W/ G-J10009	Ext. roof	165 ft ²	
	Material: Description:		A	Ext. 1st floor, S. WINDOW 10	11 T-O	27	
	Material: Description:		B	Ext. 1st floor, W. WINDOW			
	Material: Description:		A				
	Material: Description:		B				
	Material: Description:		A				
	Material: Description:		B				
	Material: Description:		A				
	Material: Description:		B				

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	199883		Building:	5861 S. MUK, WINDING		Date:	11/22/2017	
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: Texture & plaster	F	A	LIVING RM 8, @ CEILING C38812	SPARS (UP AND DOWN) 275	275		
	B		SPARS 10 @ W. WALL 13					
	C		SPARS 10 @ E. WALL 14					
13	Material: Rough plaster	F	A	LIVING RM 1, WALL (N) 15	1, 2, 3 5, 7, 10	1600 175		
	B		DINING RM 2, CEILING 16					
	C		Bedroom 2, WALL (S) 17					
	D		HALLWAY 5, W. WALL 18					
	E		Bedroom 7, E. WALL 19					
21	Material: popcorn ceiling	F	A	Bedroom 15, @ E. WALL 20	BdRm 15	175	175	
	B		Bedroom 15, @ CENTER 21					
	C		Bedroom 15, @ W. WALL 22					

<1000 SF = 3 samples

1000 - <5000 = 5 samples

>5000 = 7 samples

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

Laboratory Analysis / Results

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

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

SIGNATURE

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



Prepared by: _____

Bryan Dryer, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-40292

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-05-08-226-281
House No:	6218 Marywood Ave, Lansing, MI 48911
Date Inspected:	11/22/2017
Inspected By:	Bryan Dryer
Inspectors State Card #	A-40292

Building Information			
No. Stories	1	Garage	Detached
Square Footage	900 SF	Garage Square Footage	240 SF
Basement Square Footage	450 SF	Garage Siding	Wood
Siding	Aluminum, Wood	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas	Interior Garage		



Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-05-08-226-281
House No.	6218 Marywood Ave, Lansing, MI 48911
Date Inspected:	11/22/2017

TABLE 1

HAZARDOUS MATERIALS

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

None observed above household quantities		
--	--	--

TIRE(s) REPORT

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

None observed above household quantities		
--	--	--

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-05-08-226-281
House No.	6218 Marywood Ave, Lansing, MI 48911
Date Inspected:	11/22/2017

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	2400 SF	No
2	F	Duct wrap, grey	Throughout	100 LF	YES
3	NF	12x12 Tile, wood grain	Room 6	95 SF	No
4	F	Drywall, white	Throughout	2400 SF	No
5	NF	Fiberboard, tan	Room 6	800 SF	No
6	NF	Linoleum, wood grain	Room 3	100 SF	No
7	NF	9x9 Tile, green	Room 5	80 SF	YES
8	F	Mastic, black (under 7)	Room 5	80 SF	No
9	NF	12x12 Tile, yellow	Room 5	80 SF	No
10	NF	Linoleum, black and blue	Room 4	60 SF	No
11	NF	Glue pod, yellow	Room 6	95 SF	No
12	F	House wrap, yellow	Exterior (house)	900 SF	No
13	NF	Shingle, green	Exterior (house)	1600 SF	No
14	NF	Shingle, grey	Exterior (garage)	500 SF	No
15	NF	Vermiculite	Attic	150 SF	No

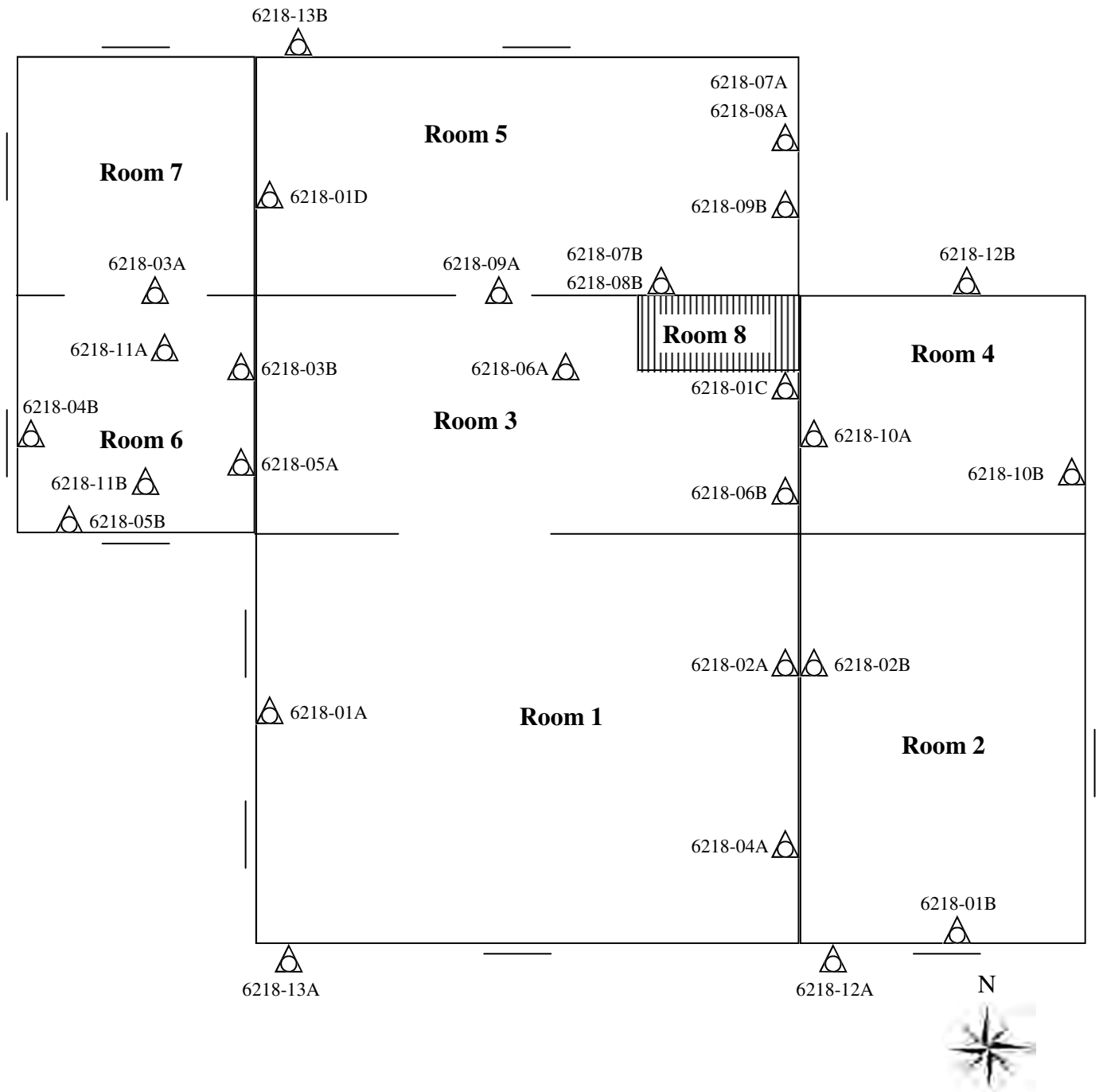
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

1st floor

33-01-05-08-226-281
6218 Marywood Ave, Lansing, MI 48911
11/22/2017



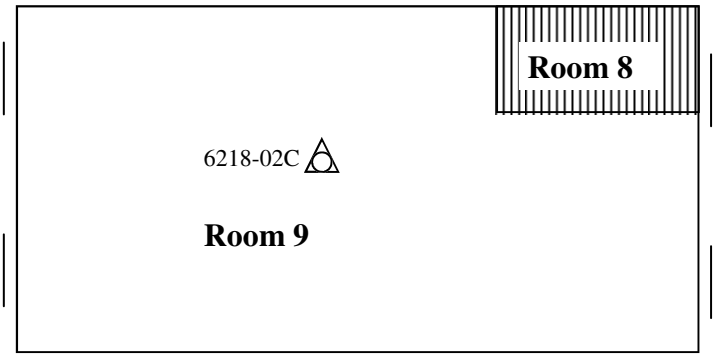
△ Sample Location

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.

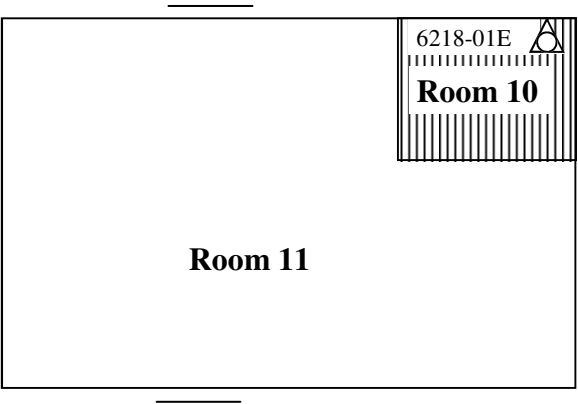
Ingham County Land Bank
199884

Basement

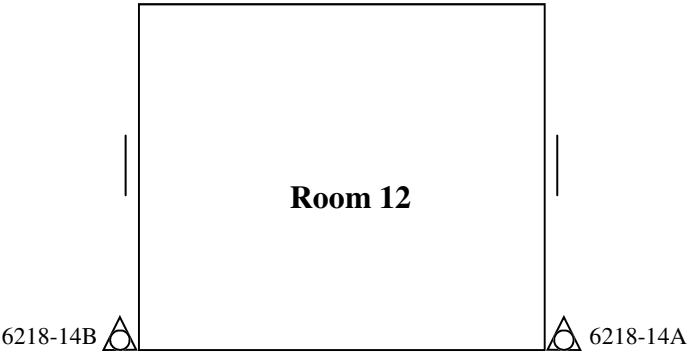
33-01-05-08-226-281
6218 Marywood Ave, Lansing, MI 48911
11/22/2017




Attic



Garage



 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:	33-01-05-08-226-281
House No.	6218 Marywood Ave, Lansing, MI 48911
Date Inspected:	11/22/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-05-08-226-281
House No.	6218 Marywood Ave, Lansing, MI 48911
Date Inspected:	11/22/2017



Garage

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-05-08-226-281
House No.	6218 Marywood Ave, Lansing, MI 48911
Date Inspected:	11/22/2017



Duct wrap



9x9 Tile, green



Vermiculite

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 :

6218 Marywood Ave, Lansing, MI

Attention :

Client Project : 33-01-05-08-226-281

ETC Job : 199884

Report Date : 1/11/2018

Login #	Sample ID	Work Requested	Completed
630034	01A	Asbestos Analysis	11/28/2017
630035	01B	Asbestos Analysis	11/28/2017
630036	01C	Asbestos Analysis	11/28/2017
630037	01D	Asbestos Analysis	11/28/2017
630038	01E	Asbestos Analysis	11/28/2017
630039	02A	Asbestos Analysis	11/28/2017
630040	02B	Asbestos Analysis	11/28/2017
630041	02C	Asbestos Analysis	11/28/2017
630042	03A	Asbestos Analysis	11/28/2017
630043	03B	Asbestos Analysis	11/28/2017
630044	04A	Asbestos Analysis	11/28/2017
630045	04B	Asbestos Analysis	11/28/2017
630046	05A	Asbestos Analysis	11/28/2017
630047	05B	Asbestos Analysis	11/28/2017
630048	06A	Asbestos Analysis	11/28/2017
630049	06B	Asbestos Analysis	11/28/2017
630050	07A	Asbestos Analysis	11/28/2017
630051	07B	Asbestos Analysis	11/28/2017
630052	08A	Asbestos Analysis	11/28/2017
630053	08B	Asbestos Analysis	11/28/2017

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

Login #	Sample ID	Work Requested	Completed
630054	09A	Asbestos Analysis	11/28/2017
630055	09B	Asbestos Analysis	11/28/2017
630056	10A	Asbestos Analysis	11/28/2017
630057	10B	Asbestos Analysis	11/28/2017
630058	11A	Asbestos Analysis	11/28/2017
630059	11B	Asbestos Analysis	11/28/2017
630060	12A	Asbestos Analysis	11/28/2017
630061	12B	Asbestos Analysis	11/28/2017
630062	13A	Asbestos Analysis	11/28/2017
630063	13B	Asbestos Analysis	11/28/2017
630064	14A	Asbestos Analysis	11/28/2017
630065	14B	Asbestos Analysis	11/28/2017
646659	01A	Asbestos Analysis	01/11/2018

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 :

6218 Marywood Ave, Lansing, MI

ETC Job : 199884

Client Project : 33-01-05-08-226-281

Date Collected : 11/22/2017

Date Received : 11/27/2017

Date Analyzed : 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630034 01A Rm 1 W. Wall Analyst: Alice Turner No skim on any plaster	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630035 01B Rm 2 S. Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
630036 01C Rm 3 E. Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630037 01D Rm 5 W. Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630038 01E Rm 10 E. Wall Analyst: Alice Turner	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630039 02A Rm 1 on Register Analyst: Alice Turner	Duct Wrap	Grey Fibrous Homogenous	40% Cellulose	40% Other	20% Chrysotile
630040 02B Rm 2 on Register Analyst: Alice Turner		Not Analyzed			

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
6218 Marywood Ave, Lansing, MI

ETC Job : 199884
Client Project : 33-01-05-08-226-281
Date Collected : 11/22/2017
Date Received : 11/27/2017
Date Analyzed : 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630041 02C Basement on Ducts Analyst: Alice Turner		Not Analyzed			
630042 03A Rm 6 @ Door Analyst: Alice Turner	12x12 Tile	Wood Grain Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630043 03B Rm 6 E. Wall Analyst: Alice Turner	12x12 Tile	Wood Grain Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
630044 04A Rm 1 E. Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
630045 04B Rm 6 W. Wall Analyst: Alice Turner	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
630046 05A Rm 6 E. Wall Analyst: Alice Turner	Fiber Board	Tan Fibrous Homogenous	100% Cellulose		None Detected
630047 05B Rm 6 S. Wall Analyst: Alice Turner	Fiber Board	Tan Fibrous Homogenous	100% Cellulose		None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location :

6218 Marywood Ave, Lansing, MI

ETC Job : 199884

Client Project : 33-01-05-08-226-281

Date Collected : 11/22/2017

Date Received : 11/27/2017

Date Analyzed : 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630048 06A Rm 3 @ Doorway Layer-1 Analyst: Alice Turner	Linoleum	Brown Fibrous Homogenous	60% Cellulose	40% Other	None Detected
630048 06A Rm 3 @ Doorway Layer-2 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
630049 06B Rm 3 E. Wall Layer-1 Analyst: Alice Turner	Linoleum	Brown Fibrous Homogenous	70% Cellulose	30% Other	None Detected
630049 06B Rm 3 E. Wall Layer-2 Analyst: Alice Turner	Mastic	Yellow Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
630050 07A Rm 5 E. Wall Analyst: Alice Turner	9x9 Tile	Green Non-Fibrous Homogenous	1% Cellulose	95% Other	4% Chrysotile
630051 07B Rm 5 S. Wall Analyst: Alice Turner		Not Analyzed			
630052 08A Rm 5 E. Wall Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
630053 08B Rm 5 S. Wall Analyst: Alice Turner	Mastic	Black Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

6218 Marywood Ave, Lansing, MI

ETC Job : 199884

Client Project : 33-01-05-08-226-281

Date Collected : 11/22/2017

Date Received : 11/27/2017

Date Analyzed : 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630054 09A Rm 5 @ Doorway Analyst: Alice Turner	12x12 Tile	Yellow Fibrous Homogenous	90% Cellulose	10% Other	None Detected
630055 09B Rm 5 E. Wall Analyst: Alice Turner	12x12 Tile	Yellow Fibrous Homogenous	90% Cellulose	10% Other	None Detected
630056 10A Rm 4 @ Door Analyst: Alice Turner	Linoleum	Blue/Black Fibrous Homogenous	60% Cellulose	40% Other	None Detected
630057 10B Rm 4 East Wall Analyst: Alice Turner	Linoleum	Blue/Black Fibrous Homogenous	60% Cellulose	40% Other	None Detected
630058 11A Rm 6 E. Ceiling Analyst: Alice Turner	Glue Pod	Yellow Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
630059 11B Rm 6 S. Ceiling Analyst: Alice Turner	Glue Pod	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
630060 12A Ext. House S. Side Analyst: Alice Turner	House Wrap	Yellow Fibrous Homogenous	100% Cellulose		None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

6218 Marywood Ave, Lansing, MI

ETC Job : 199884

Client Project : 33-01-05-08-226-281

Date Collected : 11/22/2017

Date Received : 11/27/2017

Date Analyzed : 11/28/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
630061 12B Ext. House N. Side Analyst: Alice Turner	House Wrap	Yellow Fibrous Homogenous	100% Cellulose		None Detected
630062 13A Ext. Roof S. Side Analyst: Alice Turner	Shingle	Green Fibrous Homogenous	50% Cellulose	50% Other	None Detected
630063 13B Ext. Roof N. Side Analyst: Alice Turner	Shingle	Green Fibrous Homogenous	60% Cellulose	40% Other	None Detected
630064 14A Ext. Garage E. Side Analyst: Alice Turner	Shingle	Grey Non-Fibrous Homogenous	30% Fiberglass	70% Other	None Detected
630065 14B Ext. Garage W. Side Analyst: Alice Turner	Shingle	Grey Non-Fibrous Homogenous	2% Cellulose 25% Fiberglass	73% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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


Location :
6218 Marywood Ave, Lansing, MI

ETC Job : 199884
Client Project : 33-01-05-08-226-281
Date Collected : 01/09/2018
Date Received : 01/10/2018
Date Analyzed : 01/11/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
646659 01A Attic Analyst: OJ Ivey	Vermiculite	Tan Fibrous Homogenous	3% Cellulose	97% Other	Trace Tremolite



Lab Supervisor/Other Signatory



Analyst: Alice Turner



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

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.

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

ETL Project #: 199884

Client:	ETC	Contact:	LIV HARRISMAN	Project Location/name:	6218 MARLYWOOD AVE. LANSING MI	
Address:	721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone:	(734) 955-6600			
		Fax:	(734) 955-6604			
		E-mail:	results@2elc.com	Client Project #:	199884	
Please Provide Results:			<input checked="" type="checkbox"/> Email	<input type="checkbox"/> Fax	<input type="checkbox"/> Verbal	<input type="checkbox"/> Other
				Date Sampled:	11-22-2017	

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 *

[illegible]

	Date	Time
Relinquished (Name/Organization):	BRYAN DRYER <i>Bryon S</i>	11-22-2017 5:30 am/pm
Received (Name/ETL):	<i>[Signature]</i>	11/28/17 8:00 am/pm
Stereoscopic Analysis (Name/ETL):	<i>Alan Z...</i>	11-28-17 am/pm
Sample Login (Name/ETL):	<i>[Signature]</i>	11/28/17 8:00 am/pm
Analysis (Name/ETL):	<i>Alan Z...</i>	11-28-17 am/pm
QA/QC Review (Name/ETL):	<i>[Signature]</i>	11/28/17 am/pm
Special Instructions:	POINT COUNT ALL PATHOLOGY AT OR BELOW 50% ! THANKS	
Remarks		

Revision date 5/7/2015

$<1000 \text{ SF} = 3 \text{ samples}$

 $1000 - < 5000 = 5 \text{ samples}$
$$5000 = 7 \text{ samples}$$

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

Revision date 5/7/2015

Job #: 199884		Building: 6218 Maryvale, Lansing MI			Date: 11/21/17		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bidg (Please List all Rooms)	Quantity	Picture #
02	Material: Duct wrap	F	A	Rm 1 on Register 630039			
	Description		B	Rm 2 on Register 46			
	Material: Grey		C	Basement Ducts 41			
	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 #:	Building: 0218 marywood. Lansing MI		Date: 11/21/17				
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
03	Material: 12 x 12 tile Description: wood grain	NF	A	Rm 6 @ Door 63042	Rm 6	95 SF	
	Material: Dry wall Description: white	F	B	Rm 6 E wall 43			
04	Material: Fiber Board Description: TAN	NF	A	Rm 1 E wall 44	Through	2400 SF	
	Material: Linoleum Description: wood grain	NF	B	Rm 6 E wall 45	Rm 6	800 SF	
05	Material: 9x9 Tile Description: Green	NF	A	Rm 4 S. wall 46	Rm 3	100 SF	
	Material: Marble under 07 Description: Black	F	B	Rm 3 E. wall 47	Rm 5	80 SF	
06	Material: 12 x 12 Tile Description: yellow	NF	A	Rm 3 @ Door way 48	Rm 5	80 SF	
	Material: Linoleum Description: Black & Blue	NF	B	Rm 3 E. wall 49	Rm 5	80 SF	
07	Material: Glue pad Description: yellow	NF	A	Rm 5 S. wall 50	Rm 5	80 SF	
	Material: House wrap Description: yellow	F	B	Rm 5 S. wall 51	Rm 5	80 SF	
08	Material: 12 x 12 Tile Description: yellow	NF	A	Same as 07 52	Rm 5	80 SF	
	Material: Linoleum Description: Black & Blue	NF	B	Rm 5 E. wall 53	Rm 5	80 SF	
09	Material: Glue pad Description: yellow	NF	A	Rm 5 @ Door 54	Rm 5	80 SF	
	Material: House wrap Description: yellow	F	B	Rm 5 E. wall 55	Rm 5	80 SF	
10	Material: 12 x 12 Tile Description: yellow	NF	A	Rm 4 @ Door 56	Rm 4	600 SF	
	Material: House wrap Description: yellow	F	B	Rm 4 east wall 57	Rm 4	45 SF	
11	Material: 12 x 12 Tile Description: yellow	NF	A	Rm 6 E. Ceiling 58	Ext House	900 SF	
	Material: House wrap Description: yellow	F	B	Rm 6 S. Ceiling 59			
12	Material: 12 x 12 Tile Description: yellow	NF	A	Ext House S. side 60			
	Material: House wrap Description: yellow	F	B	Ext House N. side 61			

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2011

Job #:	199884		Building:	6218 Maryland Kennels Mt		Date:	11/21/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
13	Material: <u>Housing Shingle</u> Description: <u>Green</u>	MF	A	ext roof S. side 630062	ext	1600		
			B	ext roof N. side 63	Roof	1600		
14	Material: <u>Garage Shingle</u> Description: <u>Grey</u>	MF	A	ext Garage Roof 651064	ext	500		
			B	ext Garage W-side 65	Garage	500		
	Material: Description:		A					
			B					
	Material: Description:		A					
			B					
	Material: Description:		A					
			B					
	Material: Description:		A					
			B					
	Material: Description:		A					
			B					
	Material: Description:		A					
			B					
	Material: Description:		A					
			B					

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 #:
199884

Client: ETC	Contact: Phone: (734) 955-6600 Fax: (734) 955-6604 E-mail: results@2etl.com	Project Location/name: 6218 Maywood, Lansing MI
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906		Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 1/9/2018

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

PLM Instructions

(Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method) | <input 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 checked="" type="checkbox"/> Soil or Vermiculite Analysis * |

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
	OIA		

	Date	Time
Relinquished (Name/Organization):	1-9-18	am/pm
Received (Name/ETL):	1/10/18	10:14 am/pm
Stereoscopy Analysis (Name/ETL):	1-10-18	4:30 am/pm
Sample Login (Name/ETL):	1/10/18	10:14 am/pm
Analysis (Name/ETL):		am/pm
QA/QC Review (Name/ETL):	1/11/18	am/pm
Special Instructions:	Remarks	

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199884		Building:	6218 Marywood, Lansing, MI		Date:	1/9/2018	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
01	Material: Vermiculite fan	F	A	Attica	Attic	1sf		
	Description		B					
	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					
	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: _____

Bryan Dryer, Michigan Certified Asbestos Inspector (s)

Michigan Accreditation Number (s) A-40292

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-33-427-221
House No:	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	1	Garage	Attached
Square Footage	648 SF	Garage Square Footage	300 SF
Basement Square Footage	400 SF	Garage Siding	Vinyl
Siding	Vinyl	Garage Color	White
Color	White	Garage Shingles	Asphalt Shingle
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-33-427-221
House No. 612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected: 11/21/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Battery	1 (car battery)	Room 9
Spray cans	2	Room 8, 11
Paint cans	12 (gallons)	Room 9, 11, exterior
Smoke detector	1	Room 6
Thermostat	2	Room 2, 3

TIRE(s) REPORT

Material	Quantity & Units	Location
Tires	3	Room 9, 11

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-33-427-221
House No.	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017

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	4000 SF	No
2	NF	Popcorn ceiling, white	Room 2, 3	300 SF	YES
3	F	Ceiling tile, white	Room 6	120 SF	No
4	F	Ceiling tile, beige	Room 5	65 SF	No
5	NF	Glaze, grey	Room 1, 2	2 windows	YES
6	F	Wrap, black	Room 1, exterior	400 SF	No
7	NF	12x12 Tile, beige	Room 6	120 SF	YES
8	NF	Mastic, black (under 7)	Room 6	120 SF	No
9	NF	12x12 Peel and stick, red	Room 6	120 SF	No
10	NF	Drywall, white	Room 70	300 SF	No
11	NF	Concrete, grey	Room 9	280 SF	No
12	F	Ceiling tile, white with swirls	Room 8	140 SF	No
13	F	Ceiling panel, white	Room 11	30 SF	No
14	NF	Concrete, grey	Room 11	400 SF	No
15	F	Linoleum, brown	Room 4	170 SF	No
16	NF	Shingle, black	Exterior	900 SF	No
17	NF	Chimney mortar, red/grey	Exterior	90 SF	No

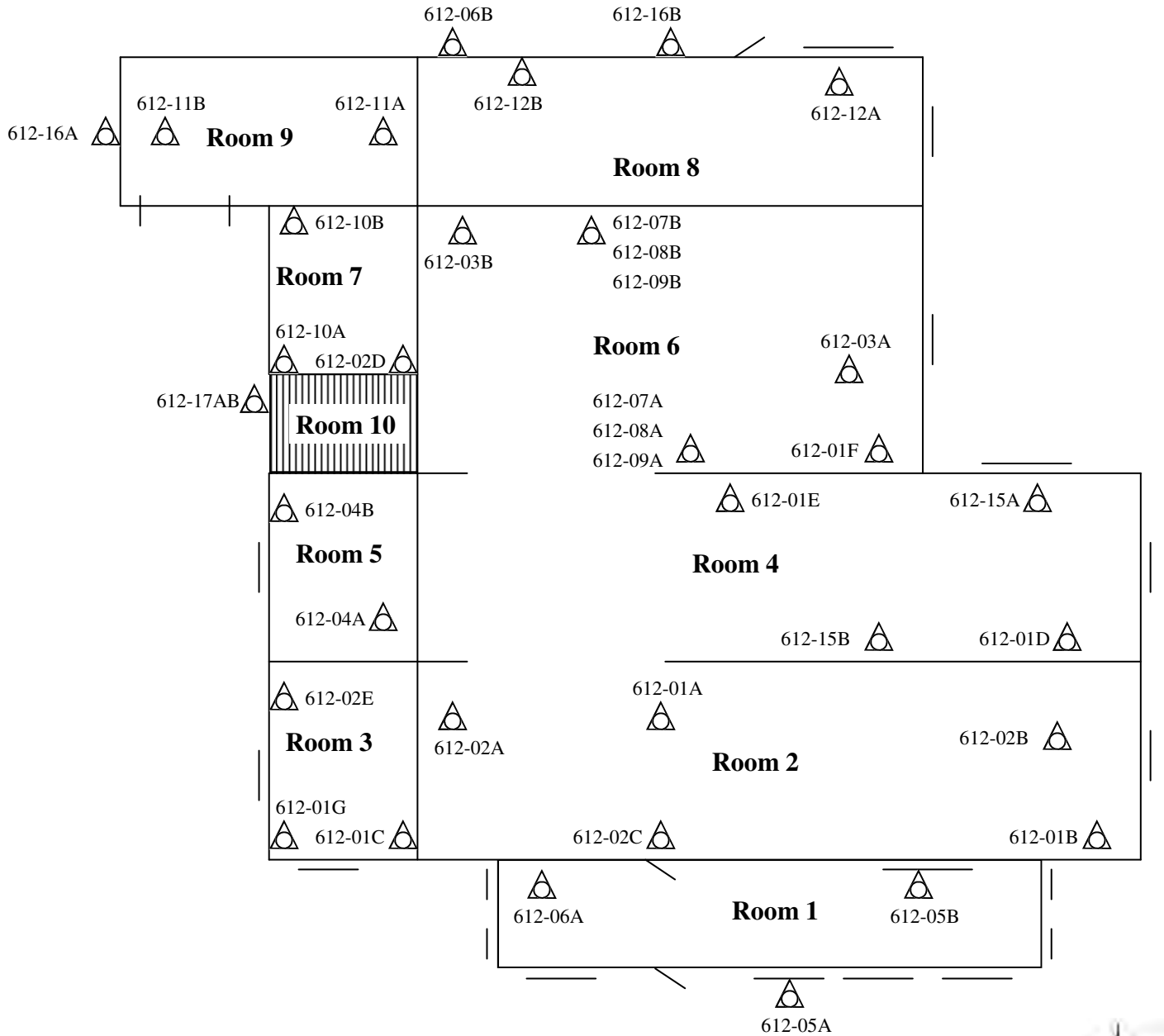
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

1st floor

33-01-01-33-427-221
612 E Cavanaugh Rd, Lansing, MI 48910
11/21/2017



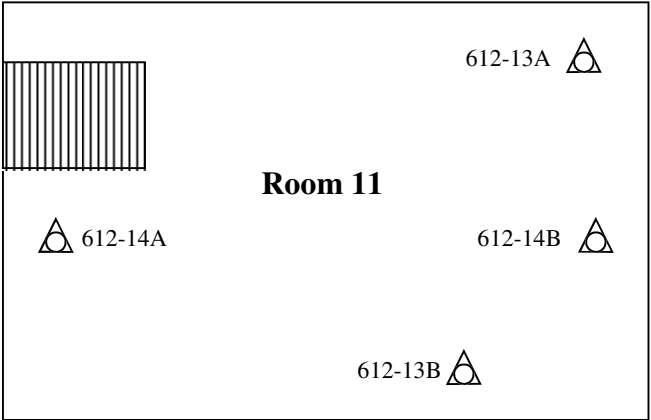
Sample Location

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.

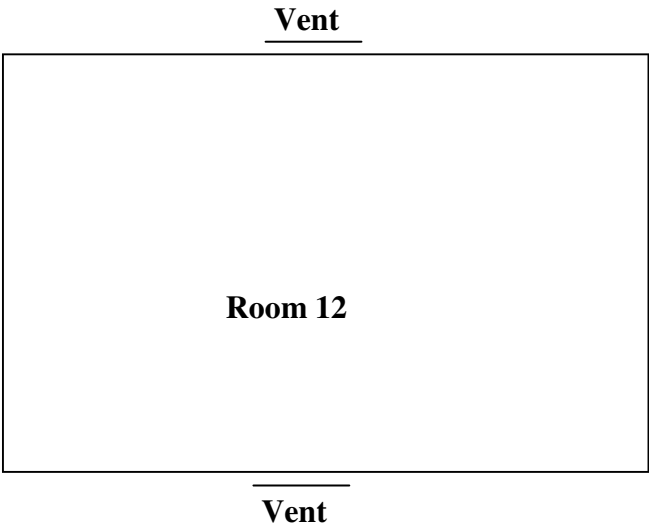
Ingham County Land Bank
199885

Basement

33-01-01-33-427-221
612 E Cavanaugh Rd, Lansing, MI 48910
11/21/2017



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:	33-01-01-33-427-221
House No.	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-33-427-221
House No.	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017



Shed

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-33-427-221
House No.	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017



Car Battery, Tire



Spray Cans



Paint Cans

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-33-427-221
House No.	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017



Thermostat

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-33-427-221
House No.	612 E Cavanaugh Rd, Lansing, MI 48910
Date Inspected:	11/21/2017



Popcorn Ceiling



Glaze



12x12 Floor, beige

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 :

612 E Cavanaugh Rd, Lansing, MI

Attention :

Client Project : 33-01-01-33-427-221

ETC Job : 199885

Report Date : 3/13/2018

Login #	Sample ID	Work Requested	Completed
628809	01A	Asbestos Analysis	11/27/2017
628810	01B	Asbestos Analysis	11/27/2017
628811	01C	Asbestos Analysis	11/27/2017
628812	01D	Asbestos Analysis	11/27/2017
628813	01E	Asbestos Analysis	11/27/2017
628814	01F	Asbestos Analysis	11/27/2017
628815	01G	Asbestos Analysis	11/27/2017
628816	02A	Asbestos Analysis	11/27/2017
628817	02B	Asbestos Analysis	11/27/2017
628818	02C	Asbestos Analysis	11/27/2017
628819	02D	Asbestos Analysis	11/27/2017
628820	02E	Asbestos Analysis	11/27/2017
628821	03A	Asbestos Analysis	11/27/2017
628822	03B	Asbestos Analysis	11/27/2017
628823	04A	Asbestos Analysis	11/27/2017
628824	04B	Asbestos Analysis	11/27/2017
628825	05A	Asbestos Analysis	11/27/2017
628826	05B	Asbestos Analysis	11/27/2017
628827	06A	Asbestos Analysis	11/27/2017
628828	06B	Asbestos Analysis	11/27/2017

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

Login #	Sample ID	Work Requested	Completed
628829	07A	Asbestos Analysis	11/27/2017
628830	07B	Asbestos Analysis	11/27/2017
628831	08A	Asbestos Analysis	11/27/2017
628832	08B	Asbestos Analysis	11/27/2017
628833	09A	Asbestos Analysis	11/27/2017
628834	09B	Asbestos Analysis	11/27/2017
628835	10A	Asbestos Analysis	11/27/2017
628836	10B	Asbestos Analysis	11/27/2017
628837	11A	Asbestos Analysis	11/27/2017
628838	11B	Asbestos Analysis	11/27/2017
628839	12A	Asbestos Analysis	11/27/2017
628840	12B	Asbestos Analysis	11/27/2017
628841	13A	Asbestos Analysis	11/27/2017
628842	13B	Asbestos Analysis	11/27/2017
628843	14A	Asbestos Analysis	11/27/2017
628844	14B	Asbestos Analysis	11/27/2017
628845	15A	Asbestos Analysis	11/27/2017
628846	15B	Asbestos Analysis	11/27/2017
628847	16A	Asbestos Analysis	11/27/2017
628848	16B	Asbestos Analysis	11/27/2017
628849	17A	Asbestos Analysis	11/27/2017
628850	17B	Asbestos Analysis	11/27/2017

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 :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885
Client Project : 33-01-01-33-427-221
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628809 01A RM 2 Ceiling Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628809 01A RM 2 Ceiling Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
628810 01B RM 2 Wall Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628810 01B RM 2 Wall Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628811 01C RM 3 Wall Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628811 01C RM 3 Wall Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
628812 01D RM 4 Wall SW Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous		99.75% Other	PC 0.25% Chrysotile
628812 01D RM 4 Wall SW Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885
Client Project : 33-01-01-33-427-221
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628813 01E RM 4 Wall NE Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
628813 01E RM 4 Wall NE Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628814 01F RM 6 Wall Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous		99.75% Other	PC 0.25% Chrysotile
628814 01F RM 6 Wall Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous		100% Other	None Detected
628815 01G RM 3 Ceiling Layer-1 Analyst: Daniel Agnew	Plaster	Grey Non-Fibrous Homogenous	3% Cellulose	96.5% Other	PC 0.5% Chrysotile
628815 01G RM 3 Ceiling Layer-2 Analyst: Daniel Agnew	Skim	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628816 02A RM 2 N Ceiling Analyst: Daniel Agnew	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
628817 02B RM 2 S Ceiling Analyst: Daniel Agnew	Texture	White Non-Fibrous Homogenous	3% Cellulose	95% Other	2% Chrysotile

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885
Client Project : 33-01-01-33-427-221
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628818 02C RM 2 W Ceiling Analyst: Daniel Agnew		Not Analyzed			
628819 02D RM 7 SW Ceiling Analyst: Daniel Agnew		Not Analyzed			
628820 02E RM 3 NE Ceiling Analyst: Daniel Agnew		Not Analyzed			
628821 03A RM 6 SW Ceiling Analyst: Daniel Agnew	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
628822 03B RM 6 NE Ceiling Analyst: Daniel Agnew	Ceiling Tile	White Fibrous Homogenous	100% Cellulose		None Detected
628823 04A RM 5 SW Ceiling Analyst: Daniel Agnew	Ceiling Tile	Beige Fibrous Homogenous	100% Cellulose		None Detected
628824 04B RM 5 NE Ceiling Analyst: Daniel Agnew	Ceiling Tile	Beige Fibrous Homogenous	100% Cellulose		None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885

Client Project : 33-01-01-33-427-221

Date Collected : 11/21/2017

Date Received : 11/24/2017

Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628825 05A RM 1 Window Analyst: Daniel Agnew	Glaze	Grey Non-Fibrous Homogenous	3% Cellulose	94% Other	3% Chrysotile
628826 05B RM 1 Window Analyst: Daniel Agnew		Not Analyzed			
628827 06A RM 1 Side C East Analyst: Daniel Agnew	Wrap	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
628828 06B Exterior House Analyst: Daniel Agnew	Wrap	Black Fibrous Homogenous	88% Cellulose	12% Other	None Detected
628829 07A RM 6 SW Floor Analyst: Daniel Agnew	12x12 Floor Tile	Beige Non-Fibrous Homogenous	3% Cellulose	95% Other	2% Chrysotile
628830 07B RM 6 NE Floor Analyst: Daniel Agnew		Not Analyzed			
628831 08A RM 6 SW Floor Analyst: Daniel Agnew	Mastic	Black Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

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

Location :

612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885

Client Project : 33-01-01-33-427-221

Date Collected : 11/21/2017

Date Received : 11/24/2017

Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628832 08B RM 6 NE Floor Analyst: Daniel Agnew	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628833 09A RM 6 SW Floor Analyst: Daniel Agnew	12x12 Peel/Stick	Red Non-Fibrous Homogenous		100% Other	None Detected
628834 09B RM 6 NE Floor Analyst: Daniel Agnew	12x12 Peel/Stick	Red Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628835 10A RM 7 West Wall Layer-1 Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628835 10A RM 7 West Wall Layer-2 Analyst: Daniel Agnew	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628836 10B RM 7 East Wall Layer-1 Analyst: Daniel Agnew	Drywall	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628836 10B RM 7 East Wall Layer-2 Analyst: Daniel Agnew	Texture	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628837 11A RM 9 South Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885
Client Project : 33-01-01-33-427-221
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628838 11B RM North Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628839 12A RM 8 Ceiling SE Analyst: Sarah Poirier	Ceiling Tile (Swirls)	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
628840 12B RM 8 Ceiling NE Analyst: Sarah Poirier	Ceiling Tile (Swirls)	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
628841 13A Basement 11 SE Ceiling Analyst: Sarah Poirier	Ceiling Panel	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
628842 13B Basement 11 SW Ceiling Analyst: Sarah Poirier	Ceiling Panel	White Fibrous Homogenous	99% Cellulose	1% Other	None Detected
628843 14A Basement 11 Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628844 14B Basement 11 South Wall Analyst: Sarah Poirier	Concrete	Grey 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 :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885
Client Project : 33-01-01-33-427-221
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628845 15A RM 4 Floor SE Analyst: Sarah Poirier	Linoleum	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628846 15B RM 4 Floor SW Analyst: Sarah Poirier	Linoleum	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628847 16A North Roof Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	20% Cellulose	80% Other	None Detected
628848 16B East Roof Analyst: Sarah Poirier	Shingle	Black Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
628849 17A Ext House Side B Analyst: Sarah Poirier	Chimney Mortar	Red/Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
612 E Cavanaugh Rd, Lansing, MI

ETC Job : 199885
Client Project : 33-01-01-33-427-221
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628850 17B Ext House Side B Analyst: Sarah Poirier	Chimney Mortar	Red/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Lab Supervisor/Other Signatory



Analyst: Daniel Agnew



Analyst: Sarah Poirier

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

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

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

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

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

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

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

ETL Project #: 199885

Client: ETC	Contact:	Project Location/name: 612 E Cavanaugh Rd Lansing MI
	Phone: (734) 955-6600	
Address: 721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Fax: (734) 955-6604	
	E-mail: results@2etc.com	Client Project #:
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____		Date Sampled: 11/22/17

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

PLM Instructions (Check all that apply)		<i>3 days</i>
<input type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive -	<i>Clearly mark Homogenous Group</i>
<input type="checkbox"/> Point Counting: 400 Points*		
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)	<input type="checkbox"/> Soil or Vermiculite Analysis *	

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Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

Job #:	19985	Building: 612 E Cavanaugh Rd		Date: 11/22/17			
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
1	Material: Plaster Grey	NF	A	Rm 2 ceiling	Throughout	400 SF	
			B	Rm 2 wall			
			C	Rm 3 wall			
			D	Rm 4 wall SW			
			E	Rm 4 wall NE			
			F	Rm 6 wall			
			G	Rm 3 ceiling			
2	Material: Popcorn Ceiling White	NF	A	Rm 2 N ceiling	Rm 2 & Rm 3	300 SF	
			B	Rm 2 S ceiling			
			C	Rm 2 D ceiling			
			D	Rm 7 SW ceiling			
			E	Rm 3 NE ceiling			
	Material:						

<1000 SF = 3 samples

1000 - <5000 = 5 samples

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199885	Building:	612 E Cavanaugh Rd	Date:	11/21/17		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
03	Material: Ceiling Tile Description: white	F	A B	Rm 6 SW ceiling Rm 6 NE ceiling	Rm 6	120 SF	028 021
04	Material: Ceiling Tile Description: beige	F	A B	Rm 5 SW ceiling Rm 5 NE ceiling	Rm 5	65 SF	023 024
05	Material: glaze Description: grey	NF	A B	Rm 1 window Rm 1 window	Thro-hall	2	025 026
06	Material: wrap Description: black	F	A B	Rm 1 Side C east Rm 1 Side C east		400 SF	027 028
07	Material: Tile 12x12 Description: beige	NF	A B	Rm 6 SW Floor Rm 6 NE Floor	Rm 6	120 SF	029 030
08	Material: Mastic Description: black	NF	A B			120 SF	031 032
09	Material: Tile 12x12 P&S Description: Red	NF	A B	Rm 6 SW Floor Rm 6 NE Floor	Rm 6	120 SF	033 034
10	Material: Drywall Description: White	NF	A B	Rm 7 West wall Rm 7 East wall	Rm 7	300 SF	035 036
11	Material: Concrete Description: grey	NF	A B	Rm 9 South Floor Rm 9 north Floor	Rm 9	280 SF	037 038
12	Material: Ceiling Tile Description: white w/ swirls	NF	A B	Rm 8 ceiling SE Rm 8 ceiling NE	Rm 8	140 SF	039 040

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 612 E Cavanaugh Rd		Date: 11/21/17				
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout Bldg (Please List all Rooms)	Quantity	Picture #
13	Material: Ceiling Panel Description: white	F	A	Basement 11 SE ceiling	Rm 11	30	841
			B	Basement 11 SW ceiling		90	842
14	Material: Concrete Description: grey	NF	A	Basement 11 Floor	Rm 11	400	843
			B	Basement 11 South wall		400	844
15	Material: linoleum Description: brown	F	A	Rm 4 Floor SE	Rm 4	170	845
			B	Rm 4 Floor SW		170	846
16	Material: Shingles Description: black	AF	A	North Roof	Ext house	900	847
			B	East Roof		900	848
17	Material: Chimney Mortar Description: Red / grey	NF	A	Ext house side	Ext house	900	849
			B			900	850
	Material: Description		A				
			B				
	Material: Description		A				
			B				
	Material: Description		A				
			B				
	Material: Description		A				
			B				
	Material: Description		A				
			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:	33-01-01-35-351-111
House No:	2107 Irene St, Lansing, MI 48910
Date Inspected:	11/21/2017
Inspected By:	Heather Davis
Inspectors State Card #	A-48908

Building Information			
No. Stories	1	Garage	Detached
Square Footage	694 SF	Garage Square Footage	450 SF
Basement Square Footage	No Basement	Garage Siding	Vinyl
Siding	Vinyl	Garage Color	Yellow
Color	Yellow	Garage Shingles	Asphalt shingle
Roof Shingles	Asphalt shingle	Electric (Gone)	Disconnected
Asbestos present	No	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-35-351-111
House No. 2107 Irene St, Lansing, MI 48910
Date Inspected: 11/21/2017

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Gas Cans	2	Room 8
Paint Cans	5 (gallon)	Room 7
Thermostat	1	Room 1

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-35-351-111
House No.	2107 Irene St, Lansing, MI 48910
Date Inspected:	11/21/2017

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Texture, white	Room 2	1500 SF	No
2	F	Blown-in-insulation, brown	Throughout	900 SF	No
3	NF	Drywall, white	Throughout	5800 SF	No
4	NF	Tape, white	Throughout	1600 LF	No
5	NF	Mud, white	Throughout	100 LF	No
6	NF	Tape, tan	Room 2	100 LF	No
7	NF	Mud, white	Room 2	100 LF	No
8	NF	Concrete wall, grey	Room 2	70 SF	No
9	NF	Linoleum, white	Room 4	120 SF	No
10	NF	Mastic, beige	Room 4	120 SF	No
11	NF	Linoleum, white	Room 2	25 SF	No
12	NF	Floor leveler, grey	Room 5	10 SF	No
13	F	Ceiling tile, white	Room 3	100 SF	No
14	NF	Siding, grey and tan	Room 7	64 SF	No
15	F	Paper, brown	Room 7	64 SF	No
16	NF	Concrete, grey	Room 7	100 SF	No
17	F	Siding, black	Exterior	900 SF	No
18	F	Paper, brown	Room 8	1200 SF	No
19	NF	Glaze, white	Exterior	2 windows	No
20	NF	Glaze, white/grey	Exterior	2 windows	No
21	NF	Shingle, white	Exterior	1200 SF	No

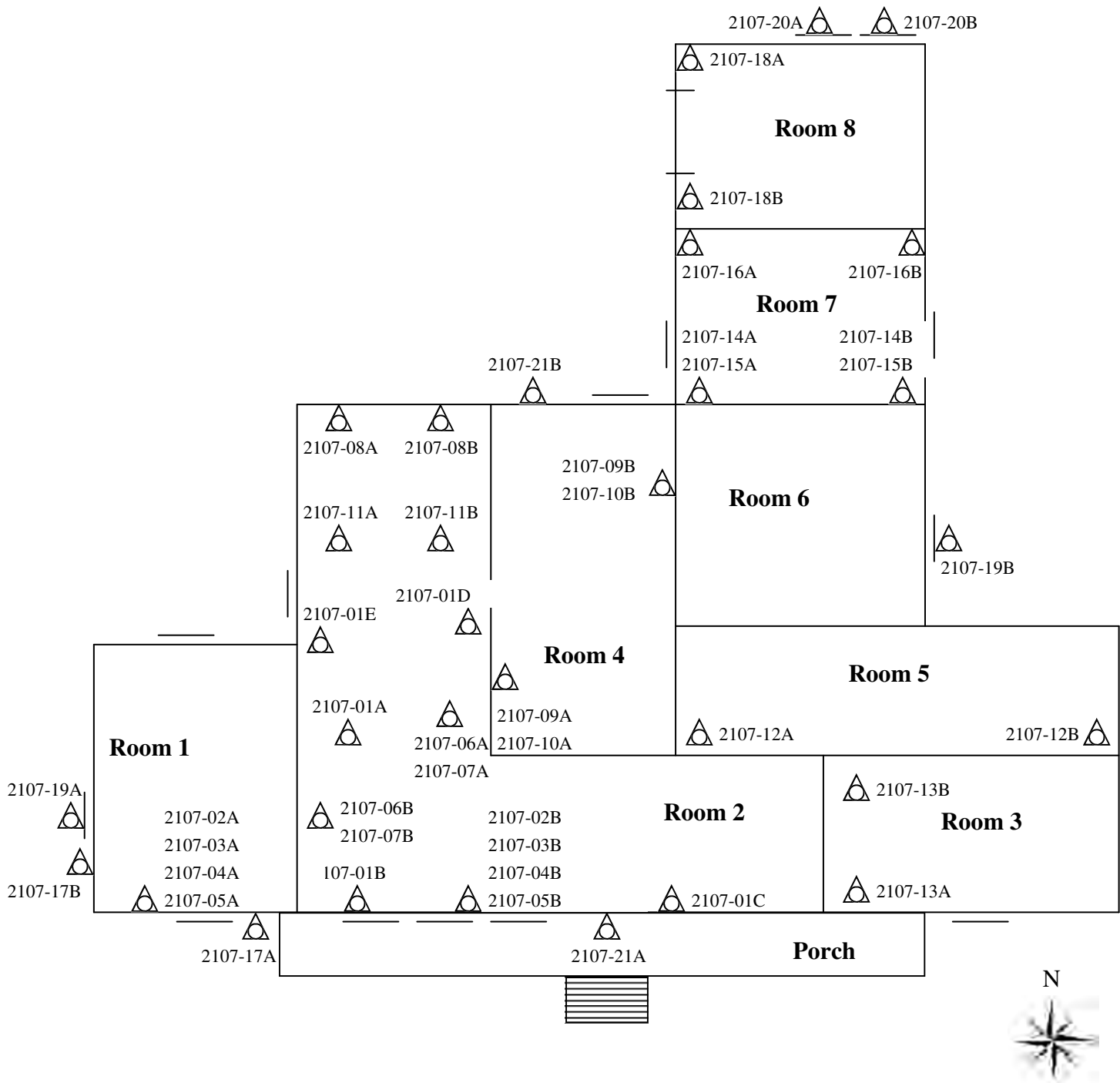
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.



Attachment:

Site Drawing

1st floor

33-01-01-35-351-111
2107 Irene St, Lansing, MI 48910
11/21/2017



- HAZ Hazardous materials
-  Sample Location
-  Tires

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

Ingham County Land Bank
199886

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel:	33-01-01-35-351-111
House No.	2107 Irene St, Lansing, MI 48910
Date Inspected:	11/21/2017



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-35-351-111
House No.	2107 Irene St, Lansing, MI 48910
Date Inspected:	11/21/2017



Garage

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-35-351-111
House No.	2107 Irene St, Lansing, MI 48910
Date Inspected:	11/21/2017



Paint Can

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 :

2107 Irene St, Lansing, MI

Attention :

Client Project : 33-01-01-35-351-111

ETC Job : 199886

Report Date : 11/27/2017

Login #	Sample ID	Work Requested	Completed
628764	01A	Asbestos Analysis	11/27/2017
628765	01B	Asbestos Analysis	11/27/2017
628766	01C	Asbestos Analysis	11/27/2017
628767	01D	Asbestos Analysis	11/27/2017
628768	01E	Asbestos Analysis	11/27/2017
628769	02A	Asbestos Analysis	11/27/2017
628770	02B	Asbestos Analysis	11/27/2017
628771	03A	Asbestos Analysis	11/27/2017
628772	03B	Asbestos Analysis	11/27/2017
628773	04A	Asbestos Analysis	11/27/2017
628774	04B	Asbestos Analysis	11/27/2017
628775	05A	Asbestos Analysis	11/27/2017
628776	05B	Asbestos Analysis	11/27/2017
628777	06A	Asbestos Analysis	11/27/2017
628778	06B	Asbestos Analysis	11/27/2017
628779	07A	Asbestos Analysis	11/27/2017
628780	07B	Asbestos Analysis	11/27/2017
628781	08A	Asbestos Analysis	11/27/2017
628782	08B	Asbestos Analysis	11/27/2017
628783	09A	Asbestos Analysis	11/27/2017

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

Login #	Sample ID	Work Requested	Completed
628784	09B	Asbestos Analysis	11/27/2017
628785	10A	Asbestos Analysis	11/27/2017
628786	10B	Asbestos Analysis	11/27/2017
628787	11A	Asbestos Analysis	11/27/2017
628788	11B	Asbestos Analysis	11/27/2017
628789	12A	Asbestos Analysis	11/27/2017
628790	12B	Asbestos Analysis	11/27/2017
628791	13A	Asbestos Analysis	11/27/2017
628792	13B	Asbestos Analysis	11/27/2017
628793	14A	Asbestos Analysis	11/27/2017
628794	14B	Asbestos Analysis	11/27/2017
628795	15A	Asbestos Analysis	11/27/2017
628796	15B	Asbestos Analysis	11/27/2017
628797	16A	Asbestos Analysis	11/27/2017
628798	16B	Asbestos Analysis	11/27/2017
628799	17A	Asbestos Analysis	11/27/2017
628800	17B	Asbestos Analysis	11/27/2017
628801	18A	Asbestos Analysis	11/27/2017
628802	18B	Asbestos Analysis	11/27/2017
628803	19A	Asbestos Analysis	11/27/2017
628804	19B	Asbestos Analysis	11/27/2017
628805	20A	Asbestos Analysis	11/27/2017
628806	20B	Asbestos Analysis	11/27/2017
628807	21A	Asbestos Analysis	11/27/2017
628808	21B	Asbestos Analysis	11/27/2017

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 :
 2107 Irene St, Lansing, MI

ETC Job : 199886
Client Project : 33-01-01-35-351-111
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628764 01A Rm 2 Ceiling Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
628765 01B Rm 2 SW Wall Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
628766 01C Rm 2 SE Wall Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628767 01D Rm 2 NW Wall Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
628768 01E Rm 2 NE Wall Analyst: Jessica Dilworth	Texture	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
628769 02A Rm 1 S Wall Analyst: Jessica Dilworth	Blown Insulation	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected
628770 02B Rm 2 S Wall Analyst: Jessica Dilworth	Blown Insulation	Brown Fibrous Homogenous	80% Cellulose	20% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.

38900 Huron River Drive

Romulus, MI 48174

Location :

2107 Irene St, Lansing, MI

ETC Job : 199886

Client Project : 33-01-01-35-351-111

Date Collected : 11/21/2017

Date Received : 11/24/2017

Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628771 03A Rm 1 S Wall Analyst: Jessica Dilworth	Drywall	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
628772 03B Rm 2 S Wall Analyst: Jessica Dilworth	Drywall	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
628773 04A Rm 1 S Wall Analyst: Jessica Dilworth	Tape	White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628774 04B Rm 2 S Wall Analyst: Jessica Dilworth	Tape	White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628775 05A Rm 1 S Wall Analyst: Jessica Dilworth	Mud	White Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
628776 05B Rm 2 S Wall Analyst: Jessica Dilworth	Mud	White Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
628777 06A RM 2 Ceiling Center Analyst: Jessica Dilworth	Tape	Tan Fibrous Homogenous	95% Fiberglass	5% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 2107 Irene St, Lansing, MI

ETC Job : 199886
Client Project : 33-01-01-35-351-111
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628778 06B Rm 2 Ceiling SW Analyst: Jessica Dilworth	Tape	Tan Fibrous Homogenous	90% Fiberglass	10% Other	None Detected
628779 07A Rm 2 Ceiling Center Analyst: Jessica Dilworth	Mud	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
628780 07B Rm 2 Ceiling SW Analyst: Jessica Dilworth	Mud	White Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
628781 08A Rm 2 N Wall Analyst: Jessica Dilworth	Concrete Wall	Grey Non-Fibrous Homogenous	4% Cellulose 15% Fiberglass	81% Other	None Detected
628782 08B Rm 2 N Wall Analyst: Jessica Dilworth	Concrete Wall	Grey Non-Fibrous Homogenous	4% Cellulose 15% Fiberglass	81% Other	None Detected
628783 09A Rm 4 SW Floor Analyst: Jessica Dilworth	Linoleum	White Fibrous Homogenous	40% Cellulose	60% Other	None Detected
628784 09B Rm 4 NE Floor Analyst: Jessica Dilworth	Linoleum	White Fibrous Homogenous	40% Cellulose	60% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 2107 Irene St, Lansing, MI

ETC Job : 199886
Client Project : 33-01-01-35-351-111
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628785 10A Rm 4 SW Floor Analyst: Jessica Dilworth	Mastic	Beige Non-Fibrous Homogenous	6% Cellulose	94% Other	None Detected
628786 10B Rm 4 NE Floor Analyst: Jessica Dilworth	Mastic	Beige Non-Fibrous Homogenous	10% Cellulose	90% Other	None Detected
628787 11A Rm 2 N Floor Analyst: Jessica Dilworth	Linoleum	White Fibrous Homogenous	40% Cellulose	60% Other	None Detected
628788 11B Rm 2 N Floor Analyst: Jessica Dilworth	Linoleum	White Fibrous Homogenous	40% Cellulose	60% Other	None Detected
628789 12A Rm 5 Floor SW Analyst: Jessica Dilworth	Floor Leveler	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
628790 12B Rm 5 Floor SE Analyst: Jessica Dilworth	Floor Leveler	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
628791 13A Rm 3 Ceiling SW Analyst: Jessica Dilworth	Ceiling Tile	White Fibrous Homogenous	95% Cellulose	5% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 2107 Irene St, Lansing, MI

ETC Job : 199886
Client Project : 33-01-01-35-351-111
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628792 13B Rm 3 Ceiling NW Analyst: Jessica Dilworth	Ceiling Tile	White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628793 14A RM 7 SE Wall Layer-1 Analyst: Jessica Dilworth	Siding	Grey/Tan Non-Fibrous Homogenous	40% Cellulose	60% Other	None Detected
628793 14A RM 7 SE Wall Layer-2 Analyst: Jessica Dilworth	Backing	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628794 14B Rm 7 SW Wall Layer-1 Analyst: Jessica Dilworth	Siding	Grey/Tan Non-Fibrous Homogenous	35% Cellulose	65% Other	None Detected
628794 14B Rm 7 SW Wall Layer-2 Analyst: Jessica Dilworth	Backing	Brown Fibrous Homogenous	92% Cellulose	8% Other	None Detected
628795 15A Rm 7 SE Wall Analyst: Jessica Dilworth	Paper	Brown Fibrous Homogenous	98% Cellulose	2% Other	None Detected
628796 15B Rm 7 SW Wall Analyst: Jessica Dilworth	Paper	Brown Fibrous Homogenous	95% Cellulose	5% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 2107 Irene St, Lansing, MI

ETC Job : 199886
Client Project : 33-01-01-35-351-111
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628797 16A Rm 7 NW Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
628798 16B Rm 7 NE Floor Analyst: Sarah Poirier	Concrete	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
628799 17A Side A Ext House Analyst: Sarah Poirier	Siding	Black Fibrous Homogenous	90% Cellulose	10% Other	None Detected
628800 17B Side B Ext House Analyst: Sarah Poirier	Siding	Black Fibrous Homogenous	95% Cellulose	5% Other	None Detected
628801 18A Rm 8 NW Wall Analyst: Sarah Poirier	Paper	Brown Fibrous Homogenous	98% Cellulose	2% Other	None Detected
628802 18B Rm 8 SW Wall Analyst: Sarah Poirier	Paper	Brown Fibrous Homogenous	97% Cellulose	3% Other	None Detected
628803 19A Side B Ext House Analyst: Sarah Poirier	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 :

2107 Irene St, Lansing, MI

ETC Job : 199886

Client Project : 33-01-01-35-351-111

Date Collected : 11/21/2017

Date Received : 11/24/2017

Date Analyzed : 11/27/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
628804 19B Side D Ext House Analyst: Sarah Poirier	Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
628805 20A Ext Garage Analyst: Sarah Poirier	Glaze	White/Grey Non-Fibrous Homogenous		100% Other	None Detected
628806 20B Ext Garage Analyst: Sarah Poirier	Glaze	White/Grey Non-Fibrous Homogenous		100% Other	None Detected
628807 21A Side A Roof Ext House Analyst: Sarah Poirier	Shingle	White Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected
628808 21B Side C Roof Ext House Analyst: Sarah Poirier	Shingle	White Non-Fibrous Homogenous	10% Fiberglass	90% Other	None Detected

Lab Supervisor/Other Signatory

Analyst: Jessica Dilworth

Analyst: Sarah Poirier



Polarized Light Microscopy Asbestos Analysis Report

To : Environmental Testing And Consulting Inc.
38900 Huron River Drive
Romulus, MI 48174
Location :
2107 Irene St, Lansing, MI

ETC Job : 199886
Client Project : 33-01-01-35-351-111
Date Collected : 11/21/2017
Date Received : 11/24/2017
Date Analyzed : 11/27/2017

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

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

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.

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

ETL Project #: 199886

Client:	ETC	Contact:	Project Location/name:
Address:	721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	2107 Irenest Lansing MI
		Fax: (734) 955-6604	
		E-mail: results@2atb.com	
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other _____			Client Project #:
			Date Sampled: 11/21/17

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

PLM Instructions (Check all that apply)		3 days
<input type="checkbox"/> PLM EPA600/R-93/116, 1993 (Standard method)	<input checked="" type="checkbox"/> Stop at 1st Positive - <i>Clearly mark Homogenous Group</i>	
<input type="checkbox"/> Point Counting: 400 Points*		
<input type="checkbox"/> PLM Non-Building Material (Dust, Wipe, Tape)		

[illegible]Page ____ of ____

Asbestos Material Sampling Summary Sheet

Surfacing materials

Revision date 5/7/2015

[illegible]

<1000 SF = 3 samples

1000 - <5000 = 5 samples

$>5000 = 7$ samples

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #: 199886		Building: 2107 Irene st			Date: 11/21/17		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
02	Material: Blown-In Ins	F	A	Rm 1 south wall	Throughout	900	
	Description: brown		B	Rm 2 south wall 770			
03	Material: Drywall	NF	A	Rm 1 south wall 771	Throughout	5800	
	Description: white		B	Rm 2 south wall 772			
04	Material: Tape	NF	A	773	↓	1600 LF	
	Description: white		B	774			
05	Material: Mud	NF	A	775	↓	1600 LF	
	Description: white		B	776			
06	Material: Tape	NF	A	Rm 2 ceiling center 777	Rm 2	100 LF	
	Description: tan		B	Rm 2 ceiling sw 778			
07	Material: mud	NF	A	779	↓	100 LF	
	Description: white		B	780			
08	Material: Concrete wall	NF	A	Rm 2 north wall 781	Rm 2	70 SF	
	Description: grey		B	782			
09	Material: Linoleum	NF	A	Rm 4 SW Floor 783	Rm 4	120 SF	
	Description: white		B	Rm 4 NE Floor 784			
10	Material: Mastic	NF	A	785	↓	120 SF	
	Description: beige		B	786			
11	Material: Linoleum	NF	A	Rm 2 North Floor 787	Rm 2	25 SF	
	Description: white		B	Rm 2 North Floor 788			

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2011

Job #: 199886		Building: 2107 Irene St			Date: 11/21/17		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
12	Material: Floor Leveler	NF	A	Rm 5 Floor SW 628	Rm 5	10 SF	
	Description: grey		B	Rm 5 Floor SE 790			
13	Material: Ceiling Tile	F	A	Rm 3 ceiling SW 791	Rm 3	100 SF	
	Description: white		B	Rm 3 ceiling NW 792			
14	Material: Siding	NF	A	Rm 7 Southeast wall 793	Rm 7	64 SF	
	Description: grey + tan		B	Rm 7 Southwest wall 794			
15	Material: Paper	F	A	↓ 795	↓	64 SF	
	Description: brown		B	↓ 796			
16	Material: Concrete	NF	A	Rm 7 NW Floor 797	Rm 7	100 SF	
	Description: grey		B	Rm 7 NE Floor 798			
17	Material: Siding	F	A	Side A Ext house 799	Ext house	9200 SF	
	Description: black		B	Side B Ext house 800			
18	Material: Paper	F	A	Rm 8 NW wall 801	Rm 8	3900 SF	
	Description: brown		B	Rm 8 SW wall 802			
19	Material: Ceramic Glaze	NF	A	Side B Ext house 803	Through out Ext	2	
	Description: white		B	Side D Ext house 804			
20	Material: glaze	NF	A	Ext Garage 805	Ext house	2	
	Description: white + grey		B	Ext Garage 806			
21	Material: Shingle	NF	A	Side A Roof Ext house	↓ 807	1200 SF	
	Description: white		B	Side C Roof 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

PRE-DEMOLITION ENVIRONMENTAL INSPECTION SUMMARY REPORT

Prepared For:

Ingham County Land Bank
3024 Turner Street
Lansing, MI 48906

Parcel:	33-01-01-27-426-042
House No:	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018
Inspected By:	Jake Gleason & Wade Wiltse
Inspectors State Card #	A-49991 & A-51051

Building Information			
No. Stories	1	Garage	No Garage
Square Footage	1100 SF	Garage Square Footage	NA
Basement Square Footage	300 SF	Garage Siding	NA
Siding	Vinyl, Wood, Transite, Asphalt	Garage Color	NA
Color	Grey	Garage Shingles	NA
Roof Shingles	Asphalt Shingle	Electric (Gone)	Disconnected
Asbestos present	YES	Gas (Gone)	Disconnected
Inaccessible areas			



Pre-Demolition Environmental Inspection Summary Report

Parcel: 33-01-01-27-426-042
House No. 1813 E. Willard, Lansing, MI 48910
Date Inspected: 12/3/2017 & 2/16/2018

TABLE 1

HAZARDOUS MATERIALS

Material Description	Quantity & Units	Location
Water Heater	1	Room 13
Air Conditioners/refrigerators/freezers	1	Room 1
Monitors/Electronics	3	Room 14
Thermostats	1	Room 2
Boat	1	Exterior

TIRE(s) REPORT

Material	Quantity & Units	Location
None observed above household quantities		

Pre-Demolition Environmental Inspection Summary Report

Parcel:	33-01-01-27-426-042
House No.	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
1	NF	Transite, blue	Exterior	1450 SF	YES
2	NF	House wrap, black	Exterior	2000 SF	No
3	F	Asphalt siding, tan	Exterior	1000 SF	No
4	F	Fiberboard, brown	Exterior	800 SF	No
5	NF	Roofing shingle, black	Exterior	1300 SF	No
6	NF	Asphalt, green shingle	Exterior	50 SF	No
7	F	Duct wrap, white	Room 13	2 SF	YES
8	NF	Drywall, white	Throughout	6000 SF	No
9	NF	Tape, white tape	Room 8, 9	150 SF	No
10	NF	Mud, white	Room 8, 9	2000 SF	No
11	NF	Tape, white paper	Throughout	150 SF	No
12	NF	Mud, white	Throughout	2000 SF	No
13	NF	Linoleum, tan	Room 6	70 SF	No
14	NF	Mastic, black	Room 6	70 SF	No
15	NF	Linoleum, tan/brown	Room 1	220 SF	No
16	NF	Mastic, yellow	Room 1	220 SF	No
17	NF	Linoleum, white/blue	Room 1	220 SF	No
18	NF	Mastic, black	Room 1	220 SF	No
19	NF	12x12 Peel and stick, brown/blue	Room 7-9	275 SF	No
20	NF	Linoleum, beige	Room 9	130 SF	No
21	F	Insulation/cellulose, brown	Room 2	280 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: 33-01-01-27-426-042
House No. 1813 E. Willard, Lansing, MI 48910
Date Inspected: 12/3/2017 & 2/16/2018

TABLE 2
SUSPECT ASBESTOS CONTAINING MATERIALS

Material #	Friable (F) / Non-Friable (NF)	Material Description	Material Location	Estimated Quantity	ACM Present
22	NF	Window glaze, white	Exterior	5 windows	No
23	NF	Stack cement, grey	Room 13	1 SF	No
24	NF	Basement floor concrete, grey	Room 11-13	400 SF	No
25	NF	Wall concrete mortar, grey	Room 11-13	650 SF	No
26	NF	2x8 Brick, white	Room 1	50 SF	No
27	NF	Mastic concrete, grey	Room 1	50 SF	YES

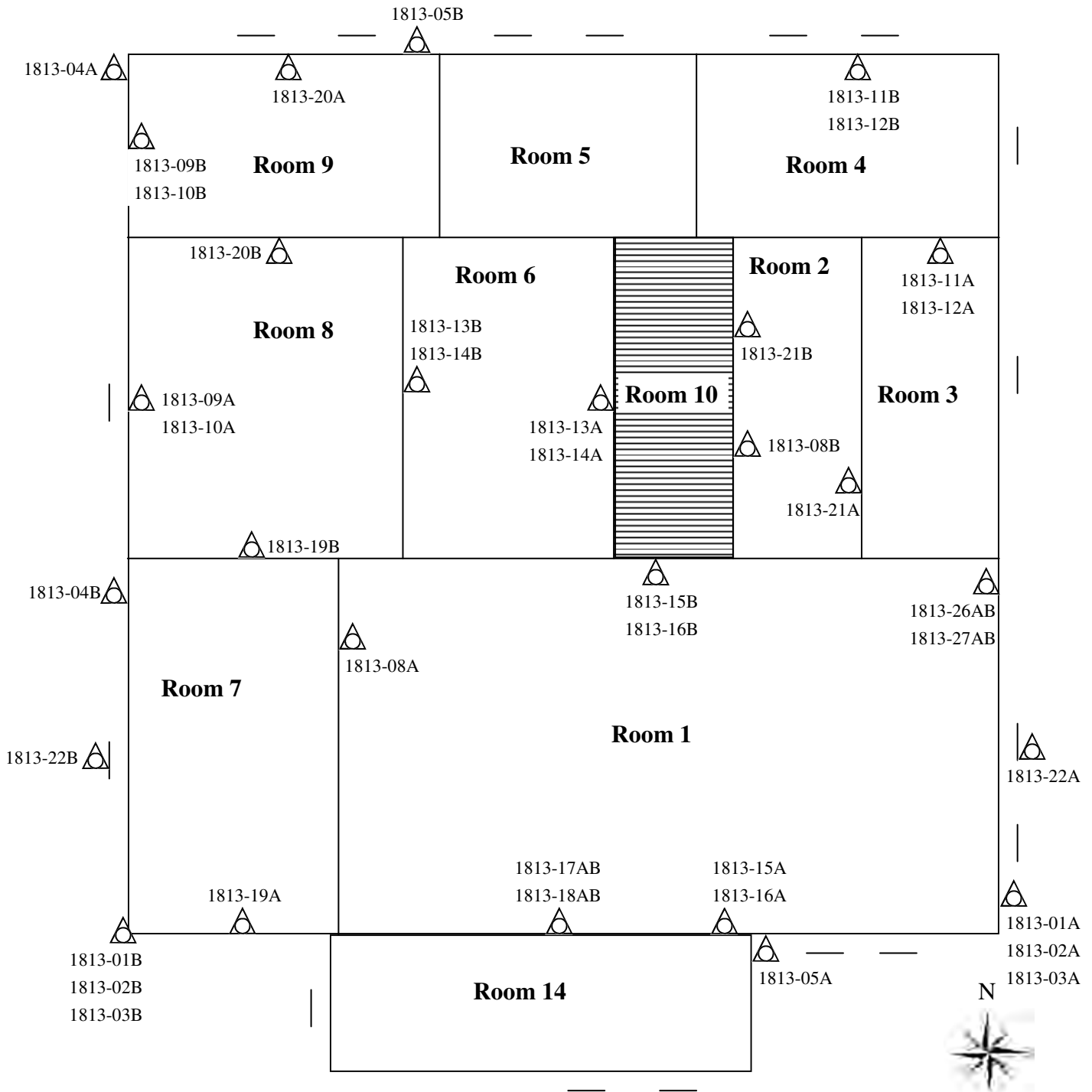
Table 2 - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. Quantities that are listed are estimates only. It is the contractor's responsibility to verify all amounts of asbestos identified during the bid process.

Attachment:

Site Drawing

1st floor

33-01-01-27-426-042
1813 E. Willard, Lansing, MI 48910
12/3/2017 & 2/16/2018



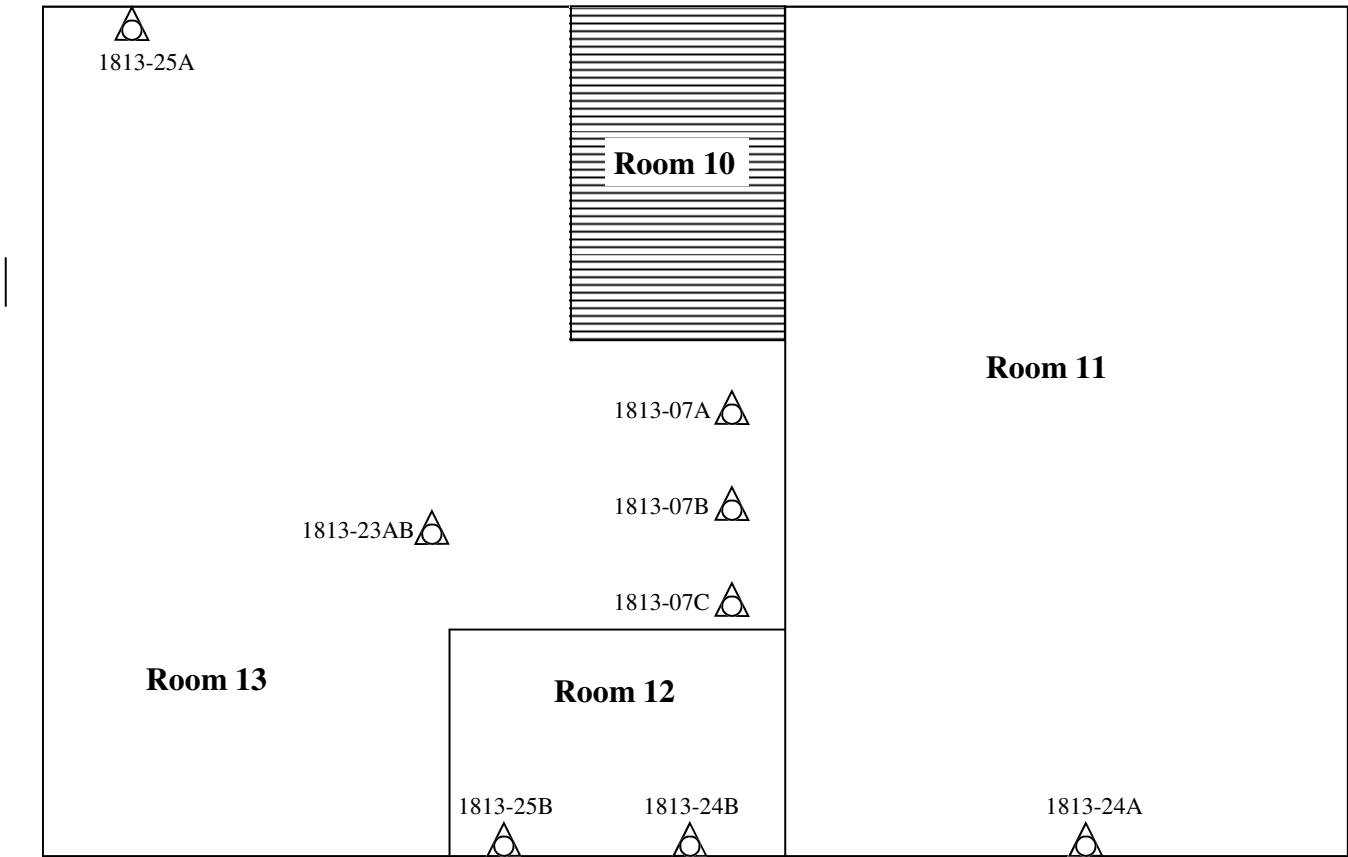
 Sample Location

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

Ingham County Land Bank
199867

Basement

33-01-01-27-426-042
1813 E. Willard, Lansing, MI 48910
12/3/2017 & 2/16/2018

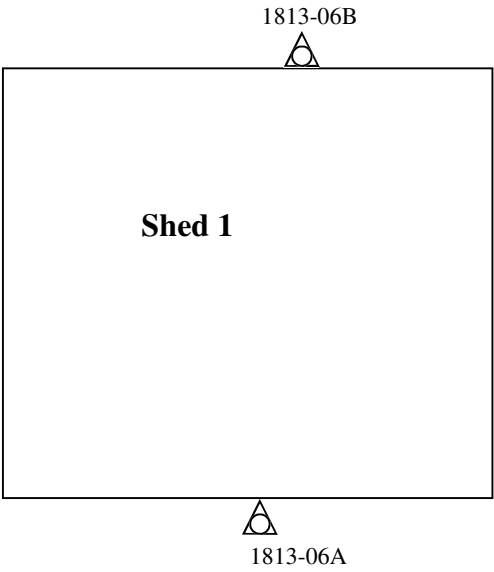
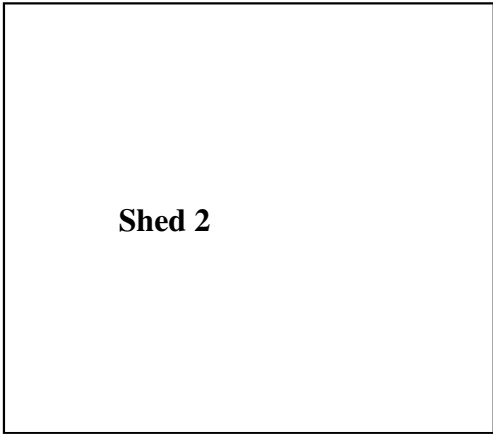


Sample Location

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

Sheds

33-01-01-27-426-042
1813 E. Willard, Lansing, MI 48910
12/3/2017 & 2/16/2018



Sample Location

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

Attachment:

Site Photographs

Representative Pictures of House/Property

Parcel:	33-01-01-27-426-042
House No.	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018



Front of house/property



Side #1 of house/property



Back of house/property



Side #2 of house/property

Representative Pictures of House/Property

Parcel:	33-01-01-27-426-042
House No.	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018



Shed (1)



Shed (2)

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-27-426-042
House No.	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018



Water Heater



Air Conditioners/refrigerators/freezers



Monitors/Electronics



Thermostats

Representative Pictures of Hazardous Materials

Parcel:	33-01-01-27-426-042
House No.	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018



Boat

Representative Pictures of Asbestos Containing Materials

Parcel:	33-01-01-27-426-042
House No.	1813 E. Willard, Lansing, MI 48910
Date Inspected:	12/3/2017 & 2/16/2018



Transite, blue



Duct wrap, white



Mastic/texture, grey/green

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 :

1813 E Willard, Lansing, MI

Attention :

Client Project : 33-01-01-27-426-042

ETC Job : 199867

Report Date : 3/13/2018

Login #	Sample ID	Work Requested	Completed
634783	1A	Asbestos Analysis	12/07/2017
634784	1B	Asbestos Analysis	12/07/2017
634785	2A	Asbestos Analysis	12/07/2017
634786	2B	Asbestos Analysis	12/07/2017
634787	3A	Asbestos Analysis	12/07/2017
634788	3B	Asbestos Analysis	12/07/2017
634789	4A	Asbestos Analysis	12/07/2017
634790	4B	Asbestos Analysis	12/07/2017
634791	5A	Asbestos Analysis	12/07/2017
634792	5B	Asbestos Analysis	12/07/2017
634793	6A	Asbestos Analysis	12/07/2017
634794	6B	Asbestos Analysis	12/07/2017
688469	07A	Asbestos Analysis	12/07/2017
688470	07B	Asbestos Analysis	02/20/2018
688471	07C	Asbestos Analysis	02/20/2018
688472	08A	Asbestos Analysis	02/20/2018
688473	08B	Asbestos Analysis	02/20/2018
688474	09A	Asbestos Analysis	02/20/2018
688475	09B	Asbestos Analysis	02/20/2018
688476	10A	Asbestos Analysis	02/20/2018

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
688477	10B	Asbestos Analysis	02/20/2018
688478	11A	Asbestos Analysis	02/20/2018
688479	11B	Asbestos Analysis	02/20/2018
688480	12A	Asbestos Analysis	02/20/2018
688481	12B	Asbestos Analysis	02/20/2018
688482	13A	Asbestos Analysis	02/20/2018
688483	13B	Asbestos Analysis	02/20/2018
688484	14A	Asbestos Analysis	02/20/2018
688485	14B	Asbestos Analysis	02/20/2018
688486	15A	Asbestos Analysis	02/20/2018
688487	15B	Asbestos Analysis	02/20/2018
688488	16A	Asbestos Analysis	02/20/2018
688489	16B	Asbestos Analysis	02/20/2018
688490	17A	Asbestos Analysis	02/20/2018
688491	17B	Asbestos Analysis	02/20/2018
688492	18A	Asbestos Analysis	02/20/2018
688493	18B	Asbestos Analysis	02/20/2018
688494	19A	Asbestos Analysis	02/20/2018
688495	19B	Asbestos Analysis	02/20/2018
688496	20A	Asbestos Analysis	02/20/2018
688497	20B	Asbestos Analysis	02/20/2018
688498	21A	Asbestos Analysis	02/20/2018
688499	21B	Asbestos Analysis	02/20/2018
688500	22A	Asbestos Analysis	02/20/2018
688501	22B	Asbestos Analysis	02/20/2018
688502	23A	Asbestos Analysis	02/20/2018
688503	23B	Asbestos Analysis	02/20/2018

Login #	Sample ID	Work Requested	Completed
688504	24A	Asbestos Analysis	02/20/2018
688505	24B	Asbestos Analysis	02/20/2018
688506	25A	Asbestos Analysis	02/20/2018
688507	25B	Asbestos Analysis	02/20/2018
688508	26A	Asbestos Analysis	02/20/2018
688509	26B	Asbestos Analysis	02/20/2018
688510	27A	Asbestos Analysis	02/20/2018
688511	27B	Asbestos Analysis	02/20/2018
688512	28A	Asbestos Analysis	02/20/2018
688513	28B	Asbestos Analysis	02/20/2018
688514	29A	Asbestos Analysis	02/20/2018
688515	29B	Asbestos Analysis	02/20/2018
688516	30A	Asbestos Analysis	02/20/2018
688517	30B	Asbestos Analysis	02/20/2018
688518	31A	Asbestos Analysis	02/20/2018
688519	31B	Asbestos Analysis	02/20/2018
688520	32A	Asbestos Analysis	02/20/2018
688521	32B	Asbestos Analysis	02/20/2018

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 :
1813 E Willard, Lansing, MI

ETC Job : 199867

Client Project : 33-01-01-27-426-042

Date Collected : 12/03/2017

Date Received : 12/05/2017

Date Analyzed : 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634783 1A ES Side Analyst: Renee Renauer	Transite	Blue Non-Fibrous Homogenous		80% Other	20% Chrysotile
634784 1B WS Side Analyst: Renee Renauer		Not Analyzed			
634785 2A ES Side Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	97% Cellulose	3% Other	None Detected
634786 2B WS Side Analyst: Renee Renauer	House Wrap	Black Fibrous Homogenous	97% Cellulose	3% Other	None Detected
634787 3A ES Side Analyst: Renee Renauer	Asphalt Siding	Tan Non-Fibrous Homogenous	75% Cellulose	25% Other	None Detected
634788 3B WS Side Analyst: Renee Renauer	Asphalt Siding	Tan Non-Fibrous Homogenous	65% Cellulose	35% Other	None Detected
634789 4A WN Side Analyst: Renee Renauer	Fiber Board	Brown Fibrous Homogenous	100% Cellulose		None Detected

Polarized Light Microscopy Asbestos Analysis Report

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

Location :

1813 E Willard, Lansing, MI

ETC Job : 199867

Client Project : 33-01-01-27-426-042

Date Collected : 12/03/2017

Date Received : 12/05/2017

Date Analyzed : 12/07/2017

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
634790 4B W Middle Side Analyst: Renee Renauer	Fiber Board	Brown Fibrous Homogenous	100% Cellulose		None Detected
634791 5A Front Porch Entry Analyst: Renee Renauer	Roofing Shingle	Black Non-Fibrous Homogenous	8% Fiberglass	92% Other	None Detected
634792 5B Back Porch Entry Analyst: Renee Renauer	Roofing Shingle	Black Non-Fibrous Homogenous	8% Fiberglass	92% Other	None Detected
634793 6A N Side Shed Rm 2 Analyst: Renee Renauer	Asphalt Shingle	Green Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected
634794 6B S Side Shed Rm 2 Analyst: Renee Renauer	Asphalt Shingle	Green Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
688469 07A 13 E Ceiling Analyst: Liliane Mason	Duct Wrap	White Fibrous Homogenous		60% Other	40% Chrysotile
688470 07B 13 E Ceiling Analyst: Liliane Mason		Not Analyzed			

Polarized Light Microscopy Asbestos Analysis Report

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38900 Huron River Drive
Romulus, MI 48174

Location :
1813 E Willard, Lansing, MI

ETC Job : 199867
Client Project : 33-01-01-27-426-042
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688471 07C 13 E Ceiling Analyst: Liliane Mason		Not Analyzed			
688472 08A 1 W Wall Analyst: Liliane Mason	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688473 08B 2 W Wall Analyst: Liliane Mason	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
688474 09A 8 W Wall Analyst: Liliane Mason	Tape	White Fibrous Homogenous		100% Other	None Detected
688475 09B 9 W Wall Analyst: Liliane Mason	Tape	White Fibrous Homogenous		100% Other	None Detected
688476 10A 8 W Wall Layer-1 Analyst: Liliane Mason	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688476 10A 8 W Wall Layer-2 Analyst: Liliane Mason	Mud #2	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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Client Project : 33-01-01-27-426-042

Date Collected : 02/16/2018

Date Received : 02/19/2018

Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688477 10B 9 W Wall Analyst: Liliane Mason	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688478 11A 3 N Wall Analyst: Liliane Mason	Tape	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688479 11B 4 W Wall Analyst: Liliane Mason	Tape	White Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688480 12A 3 N Wall Analyst: Liliane Mason	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688481 12B 4 N Wall Analyst: Liliane Mason	Mud	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688482 13A 6 E Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	20% Cellulose	80% Other	None Detected
688483 13B 6 W Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	20% Cellulose	80% Other	None Detected



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Date Collected : 02/16/2018

Date Received : 02/19/2018

Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688484 14A 6 E Floor Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688485 14B 6 W Floor Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688486 15A 1 S Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	20% Cellulose	80% Other	None Detected
688487 15B 1 N Floor Analyst: Liliane Mason	Linoleum	Tan Fibrous Homogenous	20% Cellulose	80% Other	None Detected
688488 16A 1 S Floor Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688489 16B 1 N Floor Analyst: Liliane Mason	Mastic	Yellow Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688490 17A 1 S Floor Analyst: Liliane Mason	Linoleum	White/Blue Fibrous Homogenous	20% Cellulose	80% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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Client Project : 33-01-01-27-426-042

Date Collected : 02/16/2018

Date Received : 02/19/2018

Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688491 17B 1 S Floor Analyst: Liliane Mason	Linoleum	White/Blue Fibrous Homogenous	20% Cellulose	80% Other	None Detected
688492 18A 1 Floor Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688493 18B 1 Floor Analyst: Liliane Mason	Mastic	Black Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
688494 19A 7 S Floor Analyst: Liliane Mason	12x12 Peel & Stick	Brown/Blue Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688495 19B 8 S Floor Analyst: Liliane Mason	12x12 Peel & Stick	Brown/Blue Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688496 20A 9 N Floor Analyst: Liliane Mason	Linoleum	Beige Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688497 20B 9 S Floor Analyst: Liliane Mason	Linoleum	Beige Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174

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ETC Job : 199867
Client Project : 33-01-01-27-426-042
Date Collected : 02/16/2018
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Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688498 21A 2 E Wall Analyst: Liliane Mason	Cellulose Insulation	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688499 21B 2 W Wall Analyst: Liliane Mason	Cellulose Insulation	Brown Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688500 22A 1 E Window Analyst: Liliane Mason	Window Glaze	White/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688501 22B 7 W Window Analyst: Liliane Mason	Window Glaze	White/Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688502 23A 13 S on Stack Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688503 23B 13 S on Stack Analyst: Liliane Mason	Stack Cement	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688504 24A 11 S Floor Analyst: Liliane Mason	Basement Floor Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174

Location :

1813 E Willard, Lansing, MI

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Client Project : 33-01-01-27-426-042

Date Collected : 02/16/2018

Date Received : 02/19/2018

Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688505 24B 12 S Floor Analyst: Liliane Mason	Basement Floor Concrete	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688506 25A 13 N Wall Analyst: Liliane Mason	Wall Concrete Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688507 25B 12 S Wall Analyst: Liliane Mason	Wall Concrete Mortar	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688508 26A E Wall Analyst: Liliane Mason	Brick	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688509 26B E Wall Analyst: Liliane Mason	Brick	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688510 27A E Wall Layer-1 Analyst: Liliane Mason	Mastic	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688510 27A E Wall Layer-2 Analyst: Liliane Mason	Texture	Green Non-Fibrous Homogenous		95% Other	5% Chrysotile

Polarized Light Microscopy Asbestos Analysis Report

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Romulus, MI 48174

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Client Project : 33-01-01-27-426-042

Date Collected : 02/16/2018

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Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688511 27B E Wall Layer-1 Analyst: Liliane Mason	Mastic	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688511 27B E Wall Layer-2 Analyst: Liliane Mason		Not Analyzed			
688512 28A Ext Shed S Wall Analyst: Liliane Mason	Shed Siding	Beige Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688513 28B Ext Shed N Wall Analyst: Liliane Mason	Shed Siding	Beige Fibrous Homogenous	90% Cellulose	10% Other	None Detected
688514 29A Ext Shed S Wall Analyst: Liliane Mason	House Wrap	Black Fibrous Homogenous	40% Cellulose	60% Other	None Detected
688515 29B Ext Shed N Wall Analyst: Liliane Mason	House Wrap	Black Fibrous Homogenous	40% Cellulose	60% Other	None Detected
688516 30A Ext Garage Roof W Analyst: Liliane Mason	Shingle	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected



Polarized Light Microscopy Asbestos Analysis Report

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Date Collected : 02/16/2018

Date Received : 02/19/2018

Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
688517 30B Ext Garage Roof E Analyst: Liliane Mason	Shingle	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688518 31A Ext Shed Roof W Analyst: Liliane Mason	Roofing	Green Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688519 31B Ext Shed Roof E Analyst: Liliane Mason	Roofing	Green Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
688520 32A Ext Shed Roof W Analyst: Liliane Mason	Tar Paper	Black Fibrous Homogenous	50% Cellulose	50% Other	None Detected
688521 32B Ext Shed Roof E Analyst: Liliane Mason	Tar Paper	Black Fibrous Homogenous	50% Cellulose	50% Other	None Detected

Lab Supervisor/Other Signatory

Analyst: Liliane Mason

Analyst: Renee Renauer

Polarized Light Microscopy Asbestos Analysis Report

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

Location :
 1813 E Willard, Lansing, MI

ETC Job : 199867
Client Project : 33-01-01-27-426-042
Date Collected : 02/16/2018
Date Received : 02/19/2018
Date Analyzed : 02/20/2018

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
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400 Point Count Results by EPA 600/R-93/116 PLM (denoted by "PC")

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

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

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

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

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

ENVIRONMENTAL TESTING LABORATORIES, INC

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

Bulk Asbestos Chain of Custody

ETL Project #: 199867

Client: ETC	Contact: <u>Liv Hagerman</u>	Project Location/name: <u>1813 E. Willard St</u> <u>Lansing MI</u>
Address: <u>721 N. Capitol Ave. Suite 3,</u> <u>Lansing, MI 48906</u>	Phone: (734) 955-6600	Client Project #:
	Fax: (734) 955-6604	Date Sampled:
	E-mail: <u>results@2etl.com</u>	
Please Provide Results: <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other		

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

PLM Instructions

(Check all that apply)

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

* Additional charge and turnaround may be required

Lab ID	Sample ID	Sample Location	Material Description
<u>634783</u>	<u>01 AB</u>	<u>Please see Attached sheets</u>	
<u>634794</u>	<u>06 AB</u>		

Relinquished (Name/Organization):	Date	Time
<u>Jake Grogan</u>	<u>12/3/17</u>	<u>5:00</u> am/pm
Received (Name/ETL):	<u>12/5/17</u>	<u>11:30</u> am/pm
Stereoscopy Analysis (Name/ETL):	<u>12-7-17</u>	am/pm
Sample Login (Name/ETL):		am/pm
Analysis (Name/ETL):	<u>12-7-17</u>	am/pm
QA/QC Review (Name/ETL):	<u>12/7/17</u>	am/pm
Special Instructions:	Remarks	

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	199867		Building:	1813 E. Willard, Lansing MI		Date:	12/2/17	
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #	
1	Material: Transite Description: Blue	NF	A B	ES side WS side	ext	1450		
2	Material: House wrap Description: black	NF	A B	ES side WS side	ext	1450 2000		
3	Material: Asphalt siding Description: tan	F	A B	ES side WS side	ext	1000		
4	Material: fiber board Description: brown	F	A B	WN side W middle side	ext	800		
5	Material: roofing shingle Description: black	NF	A B	front porch entry back porch entry	ext	1300		
6	Material: Asphalt Description: green shingle	NF	A B	N side S side	ext	50		
	Material: Description:		A B					
	Material: Description:		A B					
	Material: Description:		A B					
	Material: Description:		A B					

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

ETL Project #: 199867

Client:	ETC	Contact:	Project Location/name:
Address:	721 N. Capitol Ave. Suite 3, Lansing, MI 48906	Phone: (734) 955-6600	1813 Willard LANSING, MI 48910
		Fax: (734) 955-6604	Client Project #: 199867
		E-mail: results@2etc.com	Date Sampled: 2-16-15
Please Provide Results: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Verbal <input type="checkbox"/> Other			
Turnaround Time (TAT): <input type="checkbox"/> RUSH <input type="checkbox"/> Same Day <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input checked="" type="checkbox"/> Standard (3+ days) <input type="checkbox"/> Other			

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

* Additional charge and turnaround may be required

[illegible]

Relinquished (Name/Organization):	Date	Time
Received (Name/ETL): <i>Borena Spavella</i>	<i>2-19-18</i>	<i>6:00</i> am/pm
Stereoscopic Analysis (Name/ETL): <i>Leti</i>	<i>2-19-18</i>	am/pm
Sample Login (Name/ETL): <i>Borena Spavella</i>	<i>2-19-18</i>	am/pm
Analysis (Name/ETL): <i>Leti</i>		am/pm
QA/QC Review (Name/ETL): <i>Anisa Almiraz Lopez</i>	<i>2-20-18</i>	<i>1:13</i> am/pm
Special Instructions:	Remarks	

Revision date 5/7/2015

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

25

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	1998657	Building:	1813 Willard	Date:	2/4/18		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
08	Material: Dry wall	N	A	1 W wall	688472	throughout	
	Description: white		B	#2 W wall			
09	Material: Tape	N	A	8 W wall	474	8/9	
	Description: white tape		B	9 W wall			
10	Material: mud	N	A	8 W wall	476	8/9	
	Description: white		B	9 W wall			
11	Material: tape	N	A	3 N wall	478	throughout	
	Description: white paper		B	4 W wall			
12	Material: mud	N	A	3 W wall	480	throughout	
	Description: white		B	4 N wall			
13	Material: Linoleum	N	A	6 E floor	482	6	
	Description: tan		B	6 W floor			
14	Material: musboc	N	A	6 E floor	484	6	
	Description: black		B	6 W floor			
15	Material: linoleum	N	A	1 S floor	486	1	
	Description: tan / Brown		B	1 N floor			
16	Material: mastic	N	A	1 S floor	488	1	
	Description: yellow		B	1 N floor			
17	Material: Rob. Linoleum	N	A	1 S floor	490	1	15
	Description: white / Blue		B	1 S floor			

3 of 5

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

revision date 5/7/2018

miscellaneous materials

Job #:	1998657	Building:	1813 Willard	Date:	2/16/18		
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
18	Material: mas trc. Description: Black	N	A	1 floor	688492		
19	Material: Peel - Strick Description: 12 x 12 Brown/Black	N	B	1 floor	493	15	
20	Material: Insulation Description: Beige	N	A	7 S floor	494	7/8/9	
21	Material: insulation - cellulose Description: Brown	N	B	8 S floor	495		
22	Material: Windows Glaze Description: Black white/Grey	Y	A	9 N floor	496	9	
23	Material: Stucco cement Description: Grey	N	B	9 S floor	497	2	
24	Material: Basement floor concrete Description: Grey	N	A	2 E wall	498	1/7/	5 units
25	Material: wall concrete mortar Description: Grey	N	B	2 W wall	499	13	1
26	Material: Brick Description: white	N	A	1 E window	500	11/12/13	
27	Material: mas Lie concrete Description:	N	B	7 W window	501	11/12/13	
			A	13 S on stuck	502		
			B	13 S on stuck	503		
			A	11 S floor	504		
			B	12 S floor	505		
			A	13 N wall	506		
			B	12 N S wall	507		
			A	E wall	508		
			B	E wall	509	1	50
			A	E wall	510	1	50
			B	E wall	511		

4 of 5

2 samples

Asbestos Material Sampling Summary Sheet

Miscellaneous materials

Revision date 5/7/2015

Job #:	Building: 1813 Willard		Date: 2-16-18				
Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
28	Material: Shed siding Description: Beige	N	A	ext shed S wall	ext shed	200	
			B	ext shed N wall			
29	Material: House wrap Description: Black	Y	A	ext shed S wall	ext shed	200	
			B	ext shed N wall			
30	Material: Shingle Description: gray stone	N	A	ext garage Roof W	ext garage	100	
			B	ext garage Roof E			
31	Material: Roof Roofing Description: Green	N	A	ext shed Roof W	ext shed	100	
			B	ext shed Roof E			
32	Material: tar paper Description: Black	Y	A	ext shed Roof W	ext shed	100	
			B	ext shed Roof E			
	Material:		A				
	Description		B				
	Material:		A				
	Description		B				
	Material:		A				
	Description		B				
	Material:		A				
	Description		B				
	Material:		A				
	Description		B				

2 samples

595

Attachment:

Inspection Procedures

Pre-Demolition Environmental Inspection Procedures

HAZARDOUS MATERIALS INSPECTION

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

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

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

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

ASBESTOS CONTAINING BUILDING MATERIAL INSPECTION

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

Asbestos Inspection

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

Sample Collection

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

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

Pre-Demolition Environmental Inspection Procedures

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

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

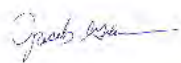
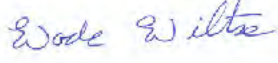
Laboratory Analysis / Results

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

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

SIGNATURE

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

Prepared by:  

Jake Gleason & Wade Wiltse, Michigan Certified Asbestos Inspector (s)
Michigan Accreditation Number (s) A-49991 & A-51051