NESHAP RENOVATION / DEMOLITION INSPECTION OF ASBESTOS CONTAINING MATERIALS AND OTHER HAZARDOUS WASTE MATERIALS FOR THE PROPERTY KNOWN AS:

1370 Sanford
Muskegon, MI 49441

Prepared for:

City of Muskegon
933 Terrace Street, Room 202
Muskegon, MI 49440
231-724-6760

Prepared By:

ETC - Environmental Services
38900 Huron River Drive
Romulus, Michigan 48174
(734) 955-6600

January 25th, 2016

ETC Job #: 177229

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1. Introduction

The City of Muskegon contracted ETC - Environmental Services (ETC) to perform a renovation / demolition inspection of the building located at 1370 Sanford, Muskegon, MI 49441. This inspection was conducted on January 25th, 2016.

The EPA under the National Emission Standards for Hazardous Air Pollutants (NESHAPs) asbestos rule requires that prior to the start of a renovation and/or demolition project, the building must be inspected for asbestos containing materials (ACM's). The purpose of this inspection was to determine the presence and quantity of friable or potentially friable ACM's. Depending on the ACM found and the condition that it is in, removal of the material may be necessary before demolition work is to begin. Prior to the start of a demolition project, it is necessary that friable or potentially friable ACM's be removed.

ETC's certified inspector, Aaron Yankee and Stuart Yankee, conducted the ACBM inspection and identified materials suspected of containing asbestos. Aaron Yankee and Stuart Yankee's State of Michigan Asbestos Building Inspector's certification number is A-42490 and A-4115.

Wherever potential asbestos materials were found, data was collected and recorded regarding quantities and observed conditions of the suspect material. As required by the Occupational Safety and Health (OSHA) and the Environmental Protection Agency (EPA), three (3) samples of each type of material were taken in different locations to determine actual asbestos content.

Included along with this report are copies of the bulk sample results, a site map showing sample locations and a copy of the State of Michigan Notification of Intent to Renovate/Demolish. This information will be necessary for the asbestos abatement contractor selected to perform asbestos abatement activities in the house. ETC has included its information on the second page.

2. Information about Asbestos Inspections

a. Sampling Procedures

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.)

It is important to note that some companies are only taking one sample of select non-friable materials. While this procedure is allowed under the NESHAPs

regulation, the OSHA standard suggests a minimum of three samples of each homogeneous material. This is a better approach due the potential errors in the analytical method used. ***To provide the most accurate information possible and be sure of our results, ETC chooses to take three samples of each sampled material.***

Additionally, some inspection companies have taken to assuming that materials contain asbestos rather than paying for the time and expenses of sampling them. This is not if the clients best interest. If materials are being assumed to contain asbestos, the client must treat them as asbestos containing even if they are not. This can lead to significantly increased costs for the building owner. ***In general, ETC only assumes materials to be asbestos when sampling them will ruin their integrity (i.e. fire doors) or when they are too dangerous to sample (i.e. live electrical lines).***

b. PLM Analysis Methodology

PLM samples were analyzed utilizing the Environmental Protection Agency's Test Methods: Methods for the determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas as method references. Additional treatment and tests may be required to accurately define composition (i.e. ashing, extraction, acetone treatment, and TEM).

Analysis was performed by using the bulk sample for visual observation and slide preparation(s) for microscopic examination and identification. The samples analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample.

According to NESHAP requirements any bulk sample that has asbestos content above 0% but below 10% should be point counted for final determination of percentage***. Please note, the contract DID NOT include point counting as defined in NESHAP.*** Should City of Muskegon wish to have this additional analysis conducted, ETC can send any samples in this range for point counting. However, this will require additional charges for analysis. Therefore, for any samples in the range above 0% but below 10% these results can only be considered estimates.

c. Interpretation of Inspection Results

A material is considered by OSHA, the EPA and the State of Michigan to be asbestos-containing if at least one sample collected from the homogenous material has asbestos fibers present in a concentration greater than one percent (>1 %).

A summary of the materials sampled, asbestos content, quantities and locations can be found on the Chart A in Section 4.0 – Summary and Conclusions.

d. Other Hazardous Materials

Additionally, a chart showing other hazardous materials (above the household quantity limitations) found at the site is included in Chart B – Section 4.0 – Summary and Conclusions. This lists non-asbestos materials that may be hazardous and require special handling and disposal requirements. Items that might be in this category include things like mercury switches, florescent lighting tubes, halogen lights, Freon in refrigeration units, pesticides, herbicides, paints, solvents, etc.

However, under the Resource Conservation and Recovery Act (RCRA) that addresses hazardous wastes, there is residential household quantity exclusion. Therefore, these materials will only be listed in this chart if they are present in quantities larger than what would be expected in a normal household. For instance, if the home was a farm and had a 55 gallon drum of pesticide present, this would be listed in Chart B. On the other hand if there were a few pesticide containers present as would be found in most homes these materials would not be listed.

3. Regulatory Requirements

There are two main regulations that affect renovation / demolition of residential homes and asbestos materials. The MIOSHA asbestos construction standard has requirements to protect the workers performing the renovation / demolition while the EPA – NESHAPs regulation has requirements that protect the general public and environment.

a. MIOSHA Construction Asbestos Regulations

The MIOSHA standard establishes a permissible exposure limit (PEL) average over an 8 hour day. This means that this is the maximum level of asbestos that workers and/or employees can be exposed to without respirator protection and protective clothing. Should air sampling during renovation or demolition activities be at or near the PEL the employer will have to:

- Notify Workers
- Worker Training
- Post Danger Signs
- Establish periodic air monitoring regulated areas, and decontamination facilities
- Provide respiratory protection and personnel protective clothing
- Employee Respiration Monitoring
- Record keeping

- Medical Surveillance (if employee will be exposed 30 days per year or more).

Until recently, only schools were federally mandated to conduct asbestos inspections of their buildings. However, with the passage of new MIOSHA regulations, all building owners (in this case City of Muskegon) is now required to notify all renovation / demolition workers of presence, location and quantity of all asbestos containing building materials within the building.

In most cases, it is more practical to have an asbestos contractor removal the ACM from the building prior to renovation / demolition than have the renovation / demolition contractor comply with all these requirements.

b. NESHAP Requirements

Prior to beginning a renovation or demolition project, NESHAP (enforced in Michigan by the Department of Environmental Quality – MDEQ) requires a full inspection of the following materials to determine their asbestos content:

- Friable Materials
- Category 1 – Non-friable Materials (Packings, gaskets, resilient floor covering, and asphalt roofing products)
- Category II – Non-friable Materials (All other non-friable materials)

In general, MDEQ requires any identified asbestos materials to be removed prior to renovation or demolition activities that would dislodge, disturb or otherwise affect these materials. There is an exception that if a licensed supervisor will state in writing that the material will not become friable during the renovation / demolition process it may be left in the building. However, be very careful with this exemption. MDEQ has stated that they believe that the only materials that MIGHT qualify for this exemption would be roofing felt and asphalt roofing materials. In order to use even this small exemption, the following would be required from the demolition contractor:

- A licensed asbestos abatement supervisor will sign that the material will not become friable
- The supervisor will have to be on-site during all renovation or demolition to insure that material stays intact.
- If MDEQ reviews that site and finds the material crumbled or disturbed both the contractor and building owner may be cited up to $27500 per day.
- The waste generated from the activity must be taken to an asbestos dump and they must be informed that the waste is mixed asbestos waste.

It is obviously very expensive and difficult to try and leave ACM within and area / building during renovation or demolition activities. Therefore, ETC recommends that all ACM be removed. This is why ETC does not assume materials to be ACM.

c. Notification Requirements

When performing abatement work within the State of Michigan, notification requirements depend on the quantity of materials and the friability of the material being removed.

If removing friable material above >160 square feet and / or 260 linear feet, the contractor must provide a ten working day notification to Michigan Department of Environmental Quality (MDEQ) and a ten calendar day notification to Michigan Department of Licensing and Regulatory Affairs (LARA) – Asbestos Program. If only non-friable materials are being removed, MDEQ does not want a notification.

If removing above >15 square feet but < 160 square feet, or > 10 linear feet but < 260 linear feet the contractor only needs to notify the LARA as stated above.

For removals of < 15 square feet or < 10 linear feet, not notification is required.

In conjunction with any notification to LARA, the contractor must pay a 1% fee for the project. This fee is to reflect 1% of the total abatement contract amount.

d. Abatement Requirements

Any company hired to remove identified ACM must insure that all asbestos companies, supervisors, workers are be licensed by the LARA. Additionally, these companies must insure that:

- The State of Michigan must be notified of the work in advance
- An asbestos supervisor must be on-site at all times when work is occurring
- All work must be completed within regulated work areas
- All work must be completed utilizing asbestos work practices defined in the MIOSHA regulations
- Have on-site personnel sampling conducted during the removal activities
- The contractor must request and pass (below 0.05 f/cc) a final asbestos clearance performed by a neutral third party prior to dismantling and leaving the site.
- Meet all other current regulations and standards.

In addition to these requirements, ETC strongly recommends that City of Muskegon insure that they receive the following documents from the contractor prior to making final payment:

- Written / signed documentation from the supervisor if any asbestos materials are to be left in place during renovation or demolition (Not recommended)
- Copy of the asbestos abatement notification

- Copy of the personnel monitoring during the work
- Copy of the final asbestos clearance report

By requiring these documents, City of Muskegon will substantially reduce their liability should something occur during the asbestos removal at this site.

4. Summary and Conclusions

ETC has endeavored to identify potential asbestos containing materials (ACM) that were accessible (without destructive testing) at the time of the inspection, other potential ACM may be buried or inaccessible at the time of the initial survey.

As has been evidenced on numerous other demolition and renovation projects, when tearing out or demolishing existing building surfaces, it is very common to encounter other building materials that were not accessible during the initial testing for ACM or lead / cadmium painted surfaces. It is therefore incumbent on City of Muskegon or their selected construction / renovation contractor to refer to the chart of sampled materials consistently during the renovation process. If materials are encountered during this process that are not clearly identifiable on the initial survey chart, ETC should be called to test and verify the asbestos / lead / cadmium content of these items.

ETC cannot be held responsible for materials encountered after the initial survey is completed unless we are contacted and given the opportunity to test and verify the material content. The costs associated with this additional testing are not included within the scope of this project and will incur additional charges for the additional sampling and analysis.

On the following charts, please find:

- Chart A - Is a summary of the materials that were sampled. Materials that test positive for asbestos have been bolded to make identification easier. ***If additional materials are encountered that were not previously identified, the contractor is responsible to contact ETC and have these materials tested. These additional sampling costs are not included in the scope of work or price for this survey.***

  Quantities that are listed are <u>estimates only</u>; in general, listed quantities represent <u>only</u> what was visible during testing. It is likely that where ACM has been identified throughout specific floors, similar materials and quantities exist on other like floors. It is the contractors'/client's responsibility to verify all amounts of asbestos identified during any bid process, or during future renovation and/or demolition activities. Materials that are identical in both relative location and physical description to already tested materials listed in this report should <u>always be assumed</u> to be ACM.

- Chart B – Is a list of other hazardous materials (above RCRA household quantity levels) that will require special handling and disposal by the contractor.

Chart A – Materials Sampled and Asbestos Content				
Material #	**Material Description**	**Asbestos**	**Quantity**	**Location (Refer to map in Appendix B)**
1	Plaster. Grey base, white finish.	No	7,000 SF	Throughout
2	Plaster, white , texture, finish	No	400 SF	Rooms 2,3,5
3	Drywall, white	No	1,200 SF	Rooms 4,5,8
4	Seam Tape, white	No	1,200 SF	Rooms 4,5,8
5	Mud/Joint Compound, white	No	1,200 SF	Rooms 4,5,8
6	Ceiling Panel, white 2x4	No	200 SF	Rooms 4, 5
7	**Linoleum, Brown hex pattern, paper back**	**Yes**	**250 SF**	**Room 4**
8	Floor Tile 3x24 Brown , Wood	No	50 SF	Room 5
9	**Linoleum, beige under #8**	**Yes**	**50 SF**	**Room 5**
10	Linoleum, grey, paper backing	No	20 SF	Room 1
11	Linoleum, green paper, under #10	No	20 SF	Room 1
12	Linoleum, grey, top layer/multi layer	No	175 SF	Room 8
13	**Linoleum , red pattern**	**Yes**	**20 SF**	**Room 8, 12**
14	Linoleum, grey, tile pattern	No	300 SF	Room 9 and 10
15	Peel and Stick 12x12 Floor Tile, Under #14	No	50 SF	Room 9
16	Peel and Stick 12x12 Floor Tile, Under #15	No	50 SF	Room 9
17	**Linoleum, yellow. Stone Pattern. #16**	**Yes**	**50 SF**	**Room 9**

Chart A – Materials Sampled and Asbestos Content				
Material #	**Material Description**	**Asbestos**	**Quantity**	**Location (Refer to map in Appendix B)**
18	**Floor Tile, Grey, Black , Under mat #17**	**Yes**	**50 SF**	**Room 9**
19	Linoleum, beige, mosaic, under mat #14	No	350 SF	Room 10
20	Linoleum, green, black, under mat #19	No	350 SF	Room 10
21	Linoleum, white	No	40 SF	Room 11
22	Linoleum, beige under #21	No	40 SF	Room 11
23	Chimney Cement, white	No	2 SF	Room 14
24	Brown in Grey, fibrous fluff	No	14 SF	Throughout
25	Window Glaze, White	No	18 Units	Throughout
26	Asphalt siding, over wood- red	No	3,000 SF	Throughout
27	Roof Shingles, layers	No	1,400 SF	Throughout

Chart B – Other Hazardous Materials Located (Above the household quantity Limitations)			
Material #	**Material Description**	**Quantity**	**Location**
1	**Refrigerator and stoves**	**2**	**Kitchen 4**
2	**Electronics, heater and radio**	**2**	**Kitchen 10**
3	**Light Ballasts**	**3**	**Rooms 4 and 10**
4	**5 Gal Joint Compound**	**1**	**Rooms 6**
5	**Smoke Detectors**	**3**	**Rooms 1,3, 10**
6	**Thermostat**	**2**	**Rooms 3,7**
7	**Florescent Light Bulbs**	**6**	**Rooms 4 and 10**

5. Inspector's Information

All inspection work was completed by a Michigan certified asbestos abatement inspector as detailed below.

This report reviewed and submitted by:

_____Aaron Yankee and Stuart Yankee

State of Michigan Certified Asbestos Building Inspector
State of Michigan Card #: A-42490 and A-4115

APPENDICES

APPENDIX A

POLARIZED LIGHT MICROSCOPY ASBESTOS ANALYSIS RESULT FORMS

ENVIRONMENTAL TESTING LABORATORIES, INC.

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

REVISED REPORT

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

Project Location : Vacant Residence
1370 Sanford, Muskegon, MI

Attention : Samantha Ferguson

Client Project : N/A

ETC Job : 177229

Report Date : 1/27/2016

Login #	Sample ID	Work Requested	Completed
390451	01A	Asbestos Analysis	01/27/2016
390452	01B	Asbestos Analysis	01/27/2016
390453	01C	Asbestos Analysis	01/27/2016
390454	01D	Asbestos Analysis	01/27/2016
390455	01E	Asbestos Analysis	01/27/2016
390456	01F	Asbestos Analysis	01/27/2016
390457	01G	Asbestos Analysis	01/27/2016
390458	02A	Asbestos Analysis	01/27/2016
390459	02B	Asbestos Analysis	01/27/2016
390460	02C	Asbestos Analysis	01/27/2016
390461	03A	Asbestos Analysis	01/27/2016
390462	03B	Asbestos Analysis	01/27/2016
390463	04A	Asbestos Analysis	01/27/2016
390464	04B	Asbestos Analysis	01/27/2016
390465	05A	Asbestos Analysis	01/27/2016
390466	05B	Asbestos Analysis	01/27/2016
390467	06A	Asbestos Analysis	01/27/2016
390468	06B	Asbestos Analysis	01/27/2016
390469	07A	Asbestos Analysis	01/27/2016
390470	07B	Asbestos Analysis	01/27/2016

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Login #	Sample ID	Work Requested	Completed
390471	08A	Asbestos Analysis	01/27/2016
390472	08B	Asbestos Analysis	01/27/2016
390473	09A	Asbestos Analysis	01/27/2016
390474	09B	Asbestos Analysis	01/27/2016
390475	10A	Asbestos Analysis	01/27/2016
390476	10B	Asbestos Analysis	01/27/2016
390477	11A	Asbestos Analysis	01/27/2016
390478	11B	Asbestos Analysis	01/27/2016
390479	12A	Asbestos Analysis	01/27/2016
390480	12B	Asbestos Analysis	01/27/2016
390481	13A	Asbestos Analysis	01/27/2016
390482	13B	Asbestos Analysis	01/27/2016
390483	14A	Asbestos Analysis	01/27/2016
390484	14B	Asbestos Analysis	01/27/2016
390485	15A	Asbestos Analysis	01/27/2016
390486	15B	Asbestos Analysis	01/27/2016
390487	16A	Asbestos Analysis	01/27/2016
390488	16B	Asbestos Analysis	01/27/2016
390489	17A	Asbestos Analysis	01/27/2016
390490	17B	Asbestos Analysis	01/27/2016
390491	18A	Asbestos Analysis	01/27/2016
390492	18B	Asbestos Analysis	01/27/2016
390493	19A	Asbestos Analysis	01/27/2016
390494	19B	Asbestos Analysis	01/27/2016
390495	20A	Asbestos Analysis	01/27/2016
390496	20B	Asbestos Analysis	01/27/2016
390497	21A	Asbestos Analysis	01/27/2016

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Client Project : N/A

ETC Job : 177229

Report Date : 1/27/2016

Login #	Sample ID	Work Requested	Completed
390498	21B	Asbestos Analysis	01/27/2016
390499	22A	Asbestos Analysis	01/27/2016
390500	22B	Asbestos Analysis	01/27/2016
390501	23A	Asbestos Analysis	01/27/2016
390502	23B	Asbestos Analysis	01/27/2016
390503	24A	Asbestos Analysis	01/27/2016
390504	24B	Asbestos Analysis	01/27/2016
390505	25A	Asbestos Analysis	01/27/2016
390506	25B	Asbestos Analysis	01/27/2016
390507	26A	Asbestos Analysis	01/27/2016
390508	26B	Asbestos Analysis	01/27/2016
390509	27A	Asbestos Analysis	01/27/2016
390510	27B	Asbestos Analysis	01/27/2016

Reviewed by:

Quality Assurance Coordinator

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Environmental Testing Laboratories, Inc.
38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

NVLAP LAB CODE 201028-0

Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
Date Received : 01/26/2016
Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390451 01A Entry Stair 1 Top Ceiling Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390451 01A Entry Stair 1 Top Ceiling Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390452 01B Entry Stair 1 Bottom Ceiling Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390452 01B Entry Stair 1 Bottom Ceiling Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390453 01C BR 2 W Closet Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390453 01C BR 2 W Closet Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
390454 01D LR 3 W Wall Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390454 01D LR 3 W Wall Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected

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Date Collected : 01/25/2016
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Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390455 01E LR 6 Ceiling Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390455 01E LR 6 Ceiling Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
390456 01F BR 8 Closet Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390456 01F BR 8 Closet Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
390457 01G KN 10 Ceiling Layer-1 Analyst: Dave Cousino	Plaster With White Finish	Grey Non-Fibrous Homogenous	4% Cellulose	96% Other	None Detected
390457 01G KN 10 Ceiling Layer-2 Analyst: Dave Cousino	Skim Coat	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390458 02A BR 2 2nd Fl Layer-1 Analyst: Dave Cousino	Plaster With White Texture Finish	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390458 02A BR 2 2nd Fl Layer-2 Analyst: Dave Cousino	Texture	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390459 02B BR 2 2nd Fl Layer-1 Analyst: Dave Cousino	Plaster With White Texture Finish	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390459 02B BR 2 2nd Fl Layer-2 Analyst: Dave Cousino	Texture	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
390460 02C LR 3 2nd Fl Layer-1 Analyst: Dave Cousino	Plaster With White Texture Finish	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390460 02C LR 3 2nd Fl Layer-2 Analyst: Dave Cousino	Texture	White Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
390461 03A N Wall KN 4 Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390462 03B E Wall KN 4 Analyst: Dave Cousino	Drywall	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390463 04A N Wall KN 4 Analyst: Dave Cousino	Seam Tape	White Fibrous Homogenous	98% Cellulose	2% Other	None Detected
390464 04B E Wall KN 4 Analyst: Dave Cousino	Seam Tape	White Fibrous Homogenous	98% Cellulose	2% Other	None Detected

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NVLAP LAB CODE 201028-0

Certificate of Analysis

Environmental Testing Laboratories, Inc.
38900 Huron River Drive,
Suite 200, Romulus, Michigan 48174,
(734) 955-6600, Fax: (734) 955-6604

Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
Date Received : 01/26/2016
Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390465 05A N Wall KN 4 Analyst: Dave Cousino	Mud/Joint Compound	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390466 05B E Wall KN 4 Analyst: Dave Cousino	Mud/Joint Compound	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
390467 06A KN 4 2nd Fl Analyst: Dave Cousino	2x4 Ceiling Panel	White Fibrous Homogenous	95% Cellulose	5% Other	None Detected
390468 06B Bath 5 2nd Fl Analyst: Dave Cousino	2x4 Ceiling Panel	White Fibrous Homogenous	96% Cellulose	4% Other	None Detected
390469 07A KN 4 2nd Fl Analyst: Dave Cousino	Linoleum	Brown Fibrous Homogenous	60% Cellulose	20% Other	20% Chrysotile
390470 07B KN 4 2nd Fl Analyst: Dave Cousino		Not Analyzed			
390471 08A Bath 5 2nd Fl Analyst: Dave Cousino	Wood Pattern 3x24 Floor Tile	Brown Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected

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Romulus,MI 48174

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
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Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390472 08B Bath 5 2nd Fl Analyst: Dave Cousino	Wood Pattern 3x24 Floor Tile	Brown Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390473 09A Bath 5 2nd Fl Analyst: Dave Cousino	Linoleum Under 08	Beige Fibrous Homogenous	60% Cellulose	15% Other	25% Chrysotile
390474 09B Bath 5 2nd Fl Analyst: Dave Cousino		Not Analyzed			
390475 10A Entry Stair 1 1st Fl Analyst: Dave Cousino	Linoleum	Grey Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
390476 10B Entry Stair 1 1st Fl Analyst: Dave Cousino	Linoleum	Grey Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390477 11A Entry Stair 1 1st Fl Analyst: Dave Cousino	Linoleum Paper Under 10	Green Fibrous Homogenous	95% Cellulose	5% Other	None Detected
390478 11B Entry Stair 1 1st Fl Analyst: Dave Cousino	Linoleum Paper Under 10	Green Fibrous Homogenous	90% Cellulose	10% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
Date Received : 01/26/2016
Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390479 12A BR 8 1st Fl Layer-1 Analyst: Alex Vande Guchte	Linoleum Top Layer Multi Layer	Grey Fibrous Homogenous	80% Cellulose	20% Other	None Detected
390479 12A BR 8 1st Fl Layer-2 Analyst: Alex Vande Guchte	Paper Backing	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
390480 12B BR 8 1st Fl Layer-1 Analyst: Alex Vande Guchte	Linoleum Top Layer Multi Layer	Grey Fibrous Homogenous	50% Cellulose	50% Other	None Detected
390480 12B BR 8 1st Fl Layer-2 Analyst: Alex Vande Guchte	Paper Backing	Black Fibrous Homogenous	85% Cellulose	15% Other	None Detected
390481 13A BR 8 Closet Analyst: Alex Vande Guchte	Patterned Linoleum	Red Fibrous Homogenous		80% Other	20% Chrysotile
390482 13B Mud Rm 12 Stairs Analyst: Alex Vande Guchte		Not Analyzed			
390483 14A Bath 9 Analyst: Alex Vande Guchte	Tile Pattern Linoleum	Grey Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390484 14B Bath 9 Analyst: Alex Vande Guchte	Tile Pattern Linoleum	Grey Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected

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1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
Date Received : 01/26/2016
Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390485 15A Bath 9 Analyst: Alex Vande Guchte	12x12 Stick On Floor Tile Under 14	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390486 15B Bath 9 Analyst: Alex Vande Guchte	12x12 Stick On Floor Tile Under 14	White Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390487 16A Bath 9 Analyst: Alex Vande Guchte	12x12 Stick On Floor Tile Under 15	Beige Non-Fibrous Homogenous	2% Cellulose	98% Other	None Detected
390488 16B Bath 9 Analyst: Alex Vande Guchte	12x12 Stick On Floor Tile Under 15	Beige Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
390489 17A Bath 9 Analyst: Alex Vande Guchte	Stone Pattern Linoleum Under 16	Yellow Fibrous Homogenous	80% Cellulose		20% Chrysotile
390490 17B Bath 9 Analyst: Alex Vande Guchte		Not Analyzed			

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Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
Date Received : 01/26/2016
Date Analyzed : 01/27/2016

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390491 18A Bath 9 Layer-1 Analyst: Alex Vande Guchte	Floor Tile Under 17	Grey Fibrous Homogenous	80% Cellulose		20% Chrysotile
390491 18A Bath 9 Layer-2 Analyst: Alex Vande Guchte	Paper Backing	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
390492 18B Bath 9 Layer-1 Analyst: Alex Vande Guchte		Not Analyzed			
390492 18B Bath 9 Layer-2 Analyst: Alex Vande Guchte	Paper Backing	Black Fibrous Homogenous	80% Cellulose	20% Other	None Detected
390493 19A KN 10 Analyst: Alex Vande Guchte	Mozaic Linoleum Under 14	Beige Fibrous Homogenous	100% Cellulose		None Detected
390494 19B KN 10 Analyst: Alex Vande Guchte	Mozaic Linoleum Under 14	Beige Fibrous Homogenous	100% Cellulose		None Detected
390495 20A KN 10 Layer-1 Analyst: Alex Vande Guchte	Linoleum Under 19	Green/Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected
390496 20B KN 10 Analyst: Alex Vande Guchte	Linoleum Under 19	Green/Black Fibrous Homogenous	70% Cellulose	30% Other	None Detected

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Polarized Light Microscopy Asbestos Analysis Report

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

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
Client Project : N/A
Date Collected : 01/25/2016
Date Received : 01/26/2016
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390497 21A Pantry 11 Analyst: Alex Vande Guchte	Linoleum	White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
390498 21B Pantry 11 Analyst: Alex Vande Guchte	Linoleum	White Fibrous Homogenous	50% Cellulose	50% Other	None Detected
390499 22A Pantry 11 Analyst: Alex Vande Guchte	Linoleum Under 21	Beige Fibrous Homogenous	100% Cellulose		None Detected
390500 22B Pantry 11 Analyst: Alex Vande Guchte	Linoleum Under 21	Beige Fibrous Homogenous	100% Cellulose		None Detected
390501 23A At Stack Bsmt Analyst: Alex Vande Guchte	Chimney Cement	White Non-Fibrous Homogenous	3% Cellulose	97% Other	None Detected
390502 23B At Stack Bsmt Analyst: Alex Vande Guchte	Chimney Cement	White Non-Fibrous Homogenous	1% Cellulose	99% Other	None Detected
390503 24A Ext Walls 1st Fl Analyst: Alex Vande Guchte	Blown In Fibrous Fluff	Grey Fibrous Homogenous	100% Cellulose		None Detected

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Romulus,MI 48174

Location : Vacant Residence
1370 Sanford, Muskegon, MI

ETC Job : 177229
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Date Collected : 01/25/2016
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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
390504 24B Ext Walls 1st Fl Analyst: Alex Vande Guchte	Blown In Fibrous Fluff	Grey Fibrous Homogenous	100% Cellulose		None Detected
390505 25A Ext W Analyst: Alex Vande Guchte	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
390506 25B Ext W Analyst: Alex Vande Guchte	Window Glaze	White Non-Fibrous Homogenous		100% Other	None Detected
390507 26A Ext S Analyst: Alex Vande Guchte	Ashphalt Siding Over Wood	Red Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
390508 26B Ext S Analyst: Alex Vande Guchte	Ashphalt Siding Over Wood	Red Non-Fibrous Homogenous	15% Cellulose	85% Other	None Detected
390509 27A SE Crnr Analyst: Alex Vande Guchte	Roof Shingles	Green Non-Fibrous Homogenous	5% Cellulose	95% Other	None Detected
390510 27B SE Crnr Analyst: Alex Vande Guchte	Roof Shingles	Green Non-Fibrous Homogenous	7% Cellulose	93% Other	None Detected

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Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos

Natalie Barnard

Lab Supervisor/Other Signatory

Analyst: Alex Vande Gucht

Analyst: Dave Cousino

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

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38900 Huron River Drive
Romulus, Michigan 48174
(734) 955-6600
Fax: (734) 992-2261
www.2eti.com

Bulk Asbestos Chain of Custody

ETL Project #:

AARON YANKEE

Client: ETC Romulus	Contact: STUART YANKEE	Project Location/name: MUSKEGON BLIGHT 1370 SANFORD ST. MUSKEGON MI 49441
Address:	Phone:	
	Fax:	
	E-mail:	Client Project #: 177229
Please Provide Results: ☐ Email ☐ Fax ☐ Verbal ☐ Other _____		Date Sampled: 1-25-16

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

PLM Instructions
(Check all that apply)

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

** Additional charge and turnaround may be required*

Lab ID	Sample ID	Sample Location	Material Description
390451	01A - 01G	SEE SAMPLING SUMMARY SHEETS	
↓	02A - 02C		
390510	03A - 27B		

		Date	Time
Relinquished (Name/Organization):	STUART YANKEE/ETC	1-25-16	am/pm
Received (Name/ETL):	A.P.	1/26/16	am/pm
Stereoscopical Analysis (Name/ETL):	A.C.	1/26/16	12:00 am/pm
Sample Login (Name/ETL):	A.P.	1/26/16	am/pm
Analysis (Name/ETL):	A.C.	1/26/16	12:00 am/pm
QA/QC Review (Name/ETL):			am/pm

Special Instructions:	Remarks

Page ____ of ____

Asbestos Material Sampling Summary Sheet
Surfacing materials

Revision date 5/7/2015

Job #: 177229 | Building: 1370 SANFORD St. MUSKEGON | Date: 1-25-16

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: PLASTER GREY BASE WHITE FINISH	F	A	ENTRY STAIR-1 TOP ceiling	THROUGHOUT	7,000 SF	390451
			B	" " -1 Bottom ceiling			390452
			C	BED 2 -WEST closet			390453
			D	LIV 3 -WEST WALL			390454
			E	LIVING 6 - ceiling			390455
			F	BED 8 - closet			390456
			G	KITCHEN 10 - ceiling			390457
02	Material: PLASTER WHITE TEXTURE FINISH	F	A	BED 2 2ND FL	2,3,5	450 SF	390458
			B	BED 2 2ND FL			390459
			C	LIVING 3 2ND FL			390460
	Material:						

000 SF = 3 samples

1000 - <5000 = 5 samples

>5000 - 7 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #: 177229 | Building: 1370 SANFORD ST. MUSKEGON | Date: 1-25-16

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: DRYWALL Description: WHITE	F	A	NORTH WALL KIT. 4	4,5,8	1,200 SF	390461
			B	E WALL KIT 4			390462
04	Material: SEAM TAPE Description: WHITE	F	A	〃 〃	4,5,8	〃	390463
			B				390464
05	Material: MUD / JOINT COMPOUND Description: WHITE	F	A	〃 〃	4,5,8	〃	390465
			B				390466
06	Material: CEILING PANEL Description: WHITE 2x4	F	A	KIT 4 - 2ND FL	4,5	200 SF	390467
			B	BATH 5 2ND FL			390468
07	Material: LINOLEUM Description: BROWN ~~HEX~~ - PAPER BACK	F	A	KITCH 4 - 2ND FL	4	250 SF	390469
			B	KITCH 4 2ND FL			390470
08	Material: FLOOR TILE Description: 3"x24" BROWN WOOD	F	A	BATH 5 2ND FL	5	50 SF	390471
			B	BATH 5 2ND FL			390472
09	Material: LINOLEUM Description: BEIGE UNDER #08	F	A	BATH 5 2ND FL	5	50 SF	390473
			B	BATH 5 2ND FL			390474
10	Material: ~~FLOOR~~ LINOLEUM Description: GREY / PAPER BACK	F	A	ENTRY / STAIR 7 1ST FL	1	20 SF	390475
			B	〃 〃 〃			390476
11	Material: LINOLEUM Description: GREEN / PAPER UNDER #10	F	A	〃 〃 〃	1	20 SF	390477
			B				390478
12	Material: LINOLEUM Description: GRAY TOP LAYER MULTI LAYER	F	A	BED 8 1ST FL	8	175 SF	390479
			B	〃 〃 〃			390480

2 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #: 177229 | Building: 1370 SANFORD St. MUSKEGON | Date: 1-25-16

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: ~~FLO~~ LINOLEUM Description RED PATTERN	F	A B	BED & Closet MUD RM 12 STAIRS	8, 12	20 SF	390481 390482
14	Material: LINOLEUM Description GRAY TILE PATTERN	F	A B	BATH 9	9, 10	400 S	390483 390484
15	Material: FLOOR TILE Description WHITE 12x12 STICKON UNDER #14	F	A B		9	50 SF	390485 390486
16	Material: FLOOR TILE Description BEIGE 12x12 STICKON UNDER #15	F	A B		9	50 SF	390487 390488
17	Material: LINOLEUM ~~[illegible]~~ Description YELLOW STONE PATTERN UNDER #16	F	A B		9	50 SF	390489 390490
18	Material: FLOOR TILE Description GRAY - BLACK BACK UNDER #17	F	A B		9	50 SF	390491 390492
19	Material: LINOLEUM Description BEIGE MOZAIC UNDER #14	F	A B	KITCHEN 10 " 10	10	350 SF	390493 390494
20	Material: LINOLEUM Description GREEN/BLK BACK UNDER #19	F	A B	KITCHEN 10 " 10	10	350 SF	390495 390496
21	Material: LINOLEUM Description WHITE	F	A B	PANTRY 11	11	40 SF	390497 390498
22	Material: LINOLEUM Description BEIGE UNDER #21	F	A B		11	40 SF	390499 390500

2 samples

Asbestos Material Sampling Summary Sheet
Miscellaneous materials

Revision date 5/7/2015

Job #: 177229 | Building: 1370 SANFORD AVE MUSKEGON | Date: 1-25-16

Material no.	Material Description	Friable (F) / Non-Friable (NF)	Sample Letter	Sample Location	Material Located throughout bldg (Please List all Rooms)	Quantity	Picture #
23	Material: CHIMINEY CEMENT Description WHITE	NF	A B	AT STACK - BASEMENT " "	14	2 SF	390501 390502
24	Material: BLOWN IN Description GRAY FIBROUS FLUFF	F	A B	EXTERIOR WALLS - 1ST FL		1400 SF	390503 390504
25	Material: WINDOW GLAZE Description WHITE	F	A B	EXTERIOR WEST		18 UNITS	390505 390506
26	Material: ASPHALT SIDING Description over WOOD - RED	F	A B	EXTERIOR SOUTH		3,000 SF	390507 390508
27	Material: ROOF Description SHINGLES ~~XXXX~~ 2 LAYER	F	A B	SE CORNER		1,400 SF	390509 390510
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						
	Material: Description						

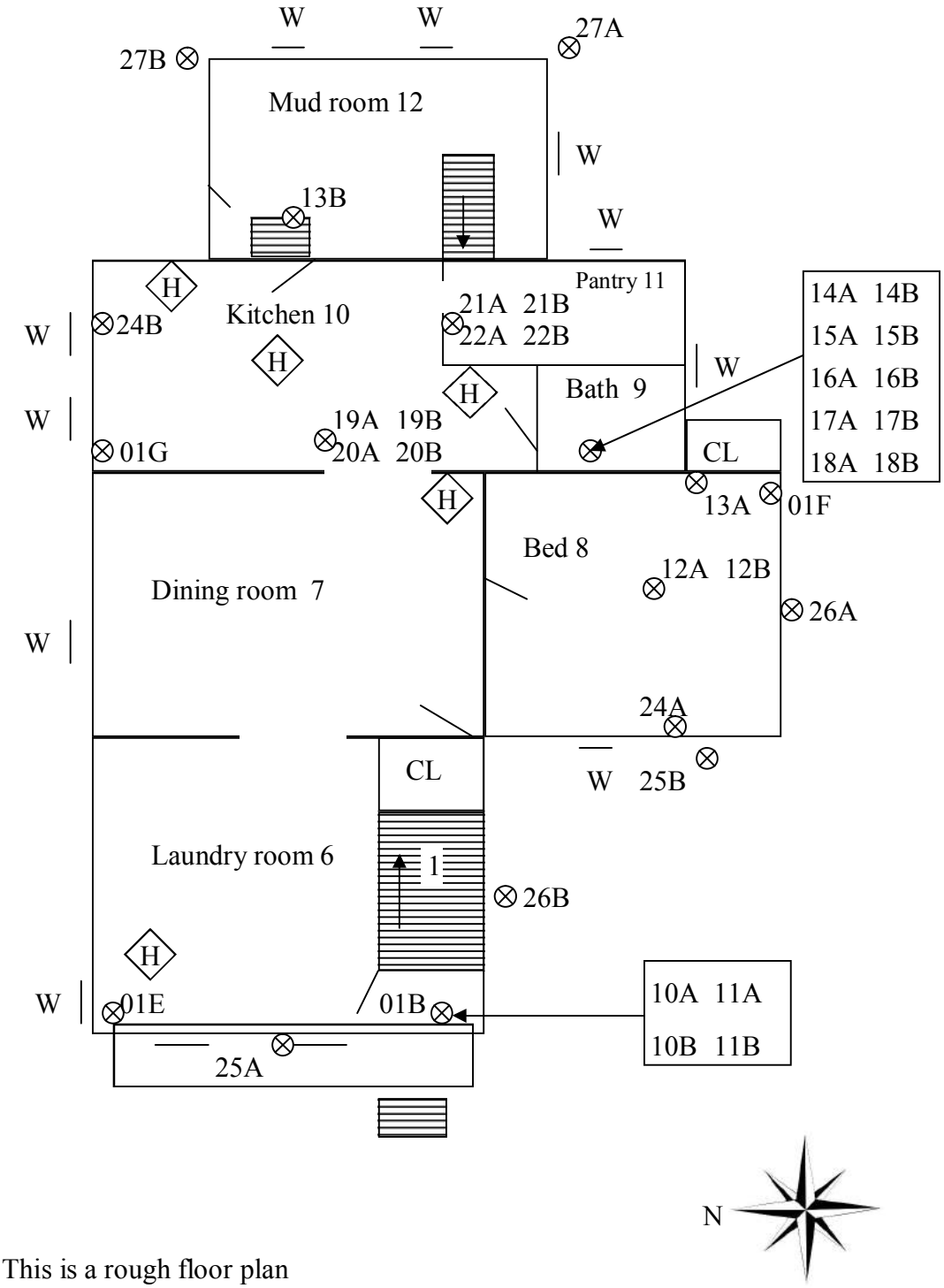
2 samples

APPENDIX B

SITE MAP

1370 Sanford, Muskegon, MI 49441

First Floor



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

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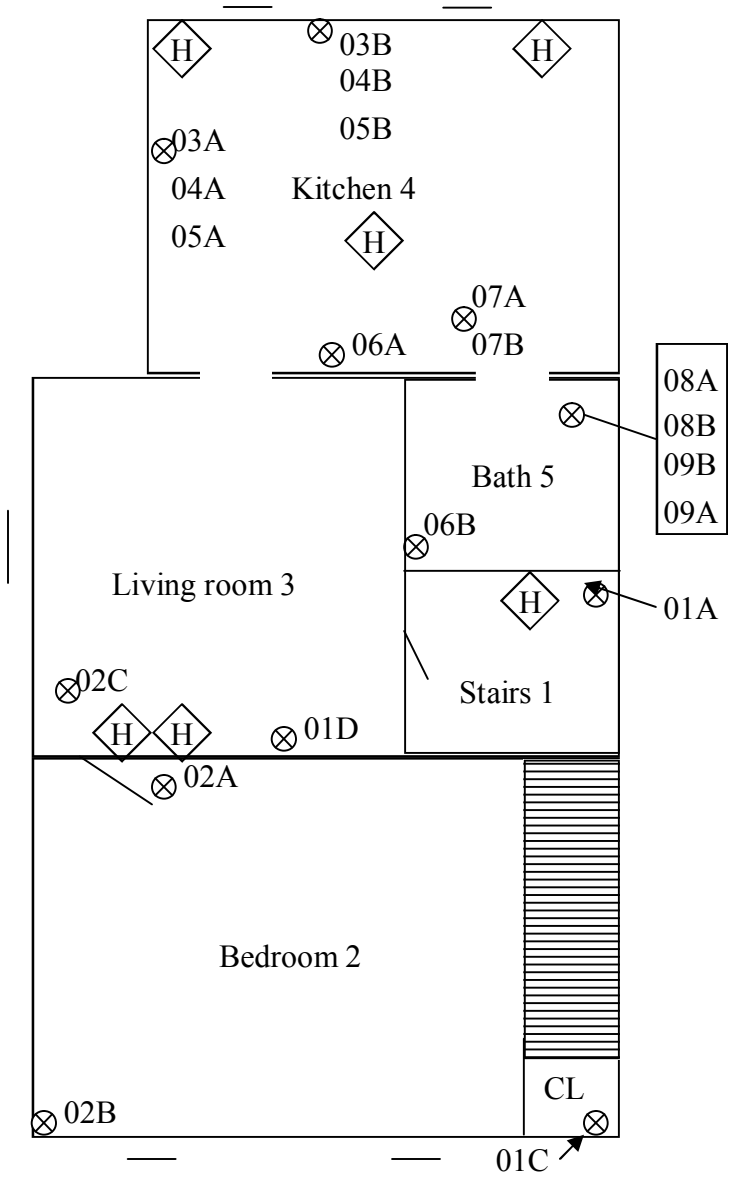
1370 Sanford, Muskegon, MI 49441

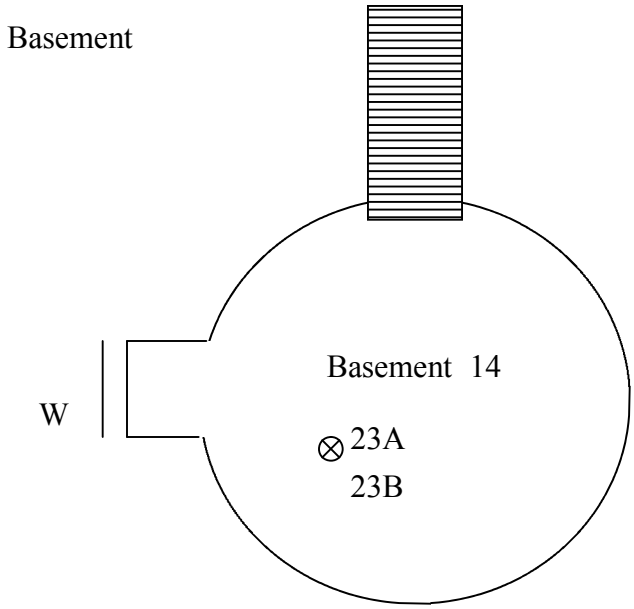
Second Floor



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

Coty of Muskegon
177229

1370 Sanford, Muskegon, MI 49441



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.

Coty of Muskegon
177229

APPENDIX C

PHOTOGRAPHS

Side A

Side B

Side C

Side D

Hazard : Stove

Hazard: Refrigerator

Hazard : Electronics

Hazard : Light Ballasts

Hazard : Light Ballasts

Hazard : Light Ballasts

Hazard : 5 Gal bucket, Joint Compound

Hazard : Smoke Detector

Hazard : Smoke Detector

Hazard : Smoke Detector

Hazard : Thermostat

Hazard : Thermostat

Hazard : Fluorescent Light Bulbs

Hazard : Fluorescent Light Bulbs

Hazard : Fluorescent Light Bulbs

APPENDIX D

STATE OF MICHIGAN NOTIFICATION OF INTENT TO REMOVE/DEMOLISH

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) AIR QUALITY DIVISION
NESHAP, 40 CFR Part 61, Subpart M

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM, P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

DEQ/LARA USE ONLY

Postmark Date _____/_____/_____ Rec'd Date ____/____/_____

Emergency Date _____/_____/_____ Valid No. _____

☐ OK ☐ Send Def Ltr. Date of Def Ltr. _____/_____/_____

FOLLOW UP _____/_____/_____ Spoke w/ _____

Comments: _____

Notification No. _____ Trans No. _____

Calculate LARA Asbestos Project Fee: (1% Project Fee)

Total Project Cost: _____ x 0.01 = _____

Type of Contractor: _____ License No.: _____

Licensing Authority: _____

1. NOTIFICATION:

Date of Notification: _____

Date of Revision(s): _____

Notification Type: ☐ Original ☐ Revised ☐ Canceled ☐ Annual

Mark appropriate boxes: (both DEQ and LARA may apply):

DEQ (NESHAP) ***[260 ln. ft./160 sq. ft. or more is threshold]***

☐ Planned Renovation – 10 **working** days notice
☐ Emergency Renovation
☐ Scheduled Demolition – 10 **working** days notice
☐ Intentional Burn – 10 **working** days notice
☐ Ordered Demolition

LARA (MIOSHA) [*Will not accept annual notifications]*

☐ Demo, Reno, Encap. (>10 ln. ft./15 sq. ft.) 10 **calendar** days notice
☐ Emergency Renovation/Encapsulation

2. PROJECT SCHEDULE:

	START DATE	END DATE
* Renovation		
+Asb. Removal		
+Demolition:		
Encapsulation:		

Work Schedule: Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.

	Days of the Week	Work Hours
Asb. Removal:		
Demolition:		
Encapsulation:		

* Includes setup, build enclosure, asbestos removal, demobilizing, etc.
+Include **only** those dates you are conducting asbestos removal/demo.

☐ Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase.

3. ABATEMENT CONTRACTOR: Internal Project #: _____

Name: _____
Mailing Address: _____
City/State/Zip: _____
E-mail: _____
Contact: _____ Phone: _____

4. DEMOLITION CONTRACTOR: Internal Project #: _____

Name: _____
Mailing Address: _____
City/State/Zip: _____
E-mail: _____
Contact: _____ Phone: _____

5. FACILITY OWNER: ("Facility" includes Bridges)

Name: Michigan Land Bank Fast Track Authority
Mailing Address: 735 E. Michigan Avenue
City/State/Zip: Lansing, MI 48912
E-mail: petrowskis@michigan.gov
Contact: Shellene Petrowski Phone: 517-373-2796

6. FACILITY DESCRIPTION:

Facility Name: _____
Location Address/Description: _____
_____ If Apt. # of units: _____
City/Twp. _____ State: _____ Zip Code: _____
County: _____ Nearest Crossroad: _____
Size: (sq. ft.) _____ No. of Floors: _____ Floor No.: _____
Age: _____ Present Use: _____ Prior Use: _____
Specific Location(s) in Facility: _____

7. DISPOSAL SITE:

Name: _____
Location Address: _____
City/State/Zip: _____

8. WASTE TRANSPORTER 1:

Name: _____
Address: _____
City/State/Zip: _____
Phone: _____

WASTE TRANSPORTER 2:

_____
_____
_____
_____

9. ORDERED DEMOLITIONS: (See NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification.

Gov't Agency Ordering Demo: _____

Name/Title of Person Signing Order: _____

_____

Date of Order: _____ Date Ordered to Begin: _____

10. IS ASBESTOS PRESENT? ☐ Yes ☐ No ☐ To be removed prior to demolition

Estimate the amount of asbestos: Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that **will not** be removed prior to demolition. (**NOTE:** In a demolition, cementatious ACM cannot remain in a structure, as it is likely to become regulated in the demolition/handling process. It must be removed prior to demolition.)

RACM to be Removed	RACM to be Encapsulated	Non-friable ACM **not** removed prior to demo. Category I	Category II	Units of Measure	
				☐ Ln. Ft.	☐ Ln. M.
				☐ Sq. Ft.	☐ Sq. M.
				☐ Cu. Ft.*	☐ Cu.M.*

*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).

(continued on reverse side)

11. PROJECT DESCRIPTION: Complete **A) for Renovation** (asbestos removal/encapsulation) and/or **B) for Demolition:**

A) RENOVATION: Mark all surfaces/types of RACM to be removed:
☐ Piping ☐ Fittings ☐ Boiler(s) ☐ Tanks(s)
☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s) ☐ Ceiling Tile(s)
☐ Mag Block ☐ Other (describe)_____

Encapsulation (for LARA): Mark surfaces/types to be encapsulated:
☐ Piping ☐ Fittings ☐ Boiler(s) ☐ Tank(s)
☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s) ☐ Ceiling Tile(s)
☐ Other (describe) _____

Method of removal: Describe how the asbestos will be removed from the surface (example: glove bag, scrape with hand tools, cut in sections and carefully lower, etc.): _____

B) DEMOLITION: Describe the method of demolition of facility, bridge, etc., and indicate if complete or partial. If partial, describe which part of facility bridge, etc., will be demolished: _____

12. ENGINEERING CONTROLS: Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal: _____

13. UNEXPECTED ASBESTOS: Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated: _____

14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS: A) Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification.): _____

B) Name, address, and phone number of company performing asbestos survey: _____

C) Name, accreditation number of inspector, and date of inspection: _____

15. EMERGENCY RENOVATIONS: Date/time of emergency: _____ Describe the sudden, unexpected event: _____

Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden: _____

16. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.

Signature of Owner or Abatement Contractor *Date* *Signature of Owner or Demolition Contractor* *Date*

17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)
Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. *I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.*

Signature of Building Owner or Lessee *Date* *Signature of Asbestos Abatement Contractor Representative* *Date*

NOTE: **It is not mandatory that a signed copy be sent to LARA unless requested.** For affected projects, this section of the notification form must be completed, signed, and made part of **your** records before the project begins.

18. I certify that the above information is correct:

Printed Name of Owner/Operator *Date* *Signature of Owner/Operator* *Date*

MAILING ADDRESSES/PHONE NUMBERS: (See Item 1 to determine which agency requirements/regulations are applicable to your project.)

For **Public Act 135 of 1986, as amended, Section 220 (1-4) or (8),** mail to address below. For more info visit: http://www.michigan.gov/asbestos

MIOSHA Asbestos Program
LARA, CSHD
P.O. Box 30671
Lansing, MI 48909-8171

517.636.4551 (office), 517.322.1713 (fax)

For **NESHAP Demolitions/Renovations, 40 CFR, Part 61, Subpart M**, please use the e-submittal process. For more information visit http://www.michigan.gov/air, under Air Links click on Asbestos NESHAP Program.

NESHAP Asbestos Program
DEQ, AQD
P.O. Box 30260
Lansing, MI 48909-7760

517.284.6777 (Office)