

**ADDENDUM # 1**  
**Request for Proposals – 2109 Barbara St. – General Contractors**  
**#LB 11-019**  
July 18, 2011

The following information is to be incorporated into the bidding and contract documents for the above referenced project.

- A. ETC Environmental Services Lead Report
- B. Global Environmental Rehabilitation Report
- C. Kitchen Layout

\*\* END OF ADDENDUM\*\*

Prepared by:  
Genesee County Land Bank  
452 S. Saginaw St.  
Second Floor  
Flint, MI 48502



**COMBINATION LEAD BASED PAINT  
INSPECTION AND  
RISK ASSESSMENT SURVEY**

**FOR THE PROPERTY KNOWN AS:**

2109 Barbara Drive  
Flint, MI 48504

Owner's name: Genesee County Land Bank

Owner's Phone #: (810) 257-3088

Current Occupant's name: Vacant Residence

Date of Construction: 1940's



**PREPARED FOR:**

Genesee County Land Bank  
452 S. Saginaw Street, 2nd Floor  
Flint, MI 48502  
(810) 257-3088

**LABWORK PROVIDED BY**

Accurate Analytical Testing (AAT)  
(734) 699-5227  
NLLAP # 100986

**DATE(S) OF ASSESSMENT:**

June 15, 2011

**REPORT PREPARED AND SUBMITTED BY:**

Michael Gravlin  
EPA Certified Lead Risk Assessor  
Certification #: P-00313

ETC Job#: 137262

38900 West Huron River Drive, Romulus, MI 48174

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**ETC - Environmental Services WILCO Environmental**

| <b>Summary of<br/>Existing Lead Based Paint Hazards including<br/>Abatement and Interim Control Options</b>  |                                   |              |   |   |
|--|-----------------------------------|--------------|---|---|
| <i>Client</i>  | Genesee County Land Bank          |              |   |   |
| <i>Survey Location:</i>  | 2109 Barbara Dr., Flint, MI 48504 |              |   |   |
| <i>Survey Date:</i>  | 06/15/11                          | <b>Job#:</b> | 137262  |   |
| <i>Inspectors:</i>   | Michael Gravlin                   |              |   |   |
| <p align="center"><b>The items listed here represent the lead based paint hazards found at this building/site. For each identified hazard, there are corresponding options for performing abatement (long term) fixes and interim control (shorter term) fixes. The client and/or their representative need to select the appropriate and affordable solution to address each of the identified hazards.</b></p> <p align="center"><b>*Always refer to the Potential Hazard Chart (Appendix C) to determine where other lead painted items may be located as not to create additional hazards during the course of the work. If these items are disturbed, lead safe work practices must be followed.</b></p> <p align="center"><b>*Selected abatement and interim control activities should be completed by a certified abatement contractor or when appropriate a certified renovation firm. After completing these activities, complete and thorough cleaning must be performed following EPA/HUD "Lead Safe Work Practices Procedures". Additionally, after all work has been completed, a final lead clearance should be conducted and may be required. It is the responsibility of the person(s) performing the lead hazard control work to ensure that all appropriate procedures and regulations are followed.</b></p> |                                   |              |   |   |
| Identified Hazard  | Severity                          | Priority     | Abatement Options   | Interim Control Options   |
| <b>Hazards throughout Home</b>   |                                   |              |   |   |
| <b>Dust levels in some window troughs / wells</b> within the home were found to have elevated lead levels. Therefore, <b>all</b> window troughs should be considered to be lead contaminated.  | High                              | High         | The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.   | The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods. |
| <b>Dust levels on some floors</b> within the home were found to have elevated lead levels. Therefore, <b>all</b> floors should be considered to be lead contaminated.  | High                              | High         | The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods.   | The risk assessor believes that these high lead levels were caused by other lead hazards dealt with below. Therefore, after having completed all other abatement / interim control options, clean the entire house for lead dust thoroughly using the accepted HEPA-Wash-HEPA cleaning methods. |
| <b>Hazards on Property (Not Home)</b>  |                                   |              |   |   |
| Visible <b>paint chips and debris</b> are present on the ground  | High                              | High         | Remove all visible paint chips and construction debris.   | Remove all visible paint chips and construction debris.   |
| <b>Exterior House 12</b>   |                                   |              |   |   |
| <b>Soffit and fascia</b> represents deteriorated lead paint surface hazard(s)  | Medium                            | Low          | 1) Enclose by wrapping with vinyl or aluminum and seal or 2) wet scrape/sand all surfaces, make necessary repairs, stabilize surfaces and encapsulate with a Michigan approved, exterior grade encapsulate or 3) Remove and replace with new components or 4) strip surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint | Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.   |
| <b>Living Room 1</b>   |                                   |              |   |   |
| <b>Window sash exterior and jamb</b> represents a deteriorated lead paint surface hazard   | Low                               | Low          | 1) Remove and replace with new replacement windows or 2) wet scrape/sand all surfaces, make necessary repairs, stabilize surfaces and encapsulate with a Michigan approved encapsulant or 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs and recoat  | Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint.   |

**ETC - Environmental Services WILCO Environmental**

| <p align="center"><b>Summary of<br/>Existing Lead Based Paint Hazards including<br/>Abatement and Interim Control Options</b></p>  |                                   |              |   |   |
|--|-----------------------------------|--------------|---|---|
| <i>Client</i>  | Genesee County Land Bank          |              |   |   |
| <i>Survey Location:</i>  | 2109 Barbara Dr., Flint, MI 48504 |              |   |   |
| <i>Survey Date:</i>  | 06/15/11                          | <b>Job#:</b> | 137262  |   |
| <i>Inspectors:</i>   | Michael Gravlin                   |              |   |   |
| <p align="center"><b>The items listed here represent the lead based paint hazards found at this building/site. For each identified hazard, there are corresponding options for performing abatement (long term) fixes and interim control (shorter term) fixes. The client and/or their representative need to select the appropriate and affordable solution to address each of the identified hazards.</b></p> <p align="center"><b>*Always refer to the Potential Hazard Chart (Appendix C) to determine where other lead painted items may be located as not to create additional hazards during the course of the work. If these items are disturbed, lead safe work practices must be followed.</b></p> <p align="center"><b>*Selected abatement and interim control activities should be completed by a certified abatement contractor or when appropriate a certified renovation firm. After completing these activities, complete and thorough cleaning must be performed following EPA/HUD "Lead Safe Work Practices Procedures". Additionally, after all work has been completed, a final lead clearance should be conducted and may be required. It is the responsibility of the person(s) performing the lead hazard control work to ensure that all appropriate procedures and regulations are followed.</b></p> |                                   |              |   |   |
| Identified Hazard  | Severity                          | Priority     | Abatement Options   | Interim Control Options   |
| <b>Entry door jamb</b> represents a deteriorated lead paint friction/impact surface hazards  | Medium                            | Low          | 1) Remove and replace with new door systems or 2) replace individual lead painted components or 3) strip all surfaces bare to the substrate, stabilize surfaces, and repaint.   | 1) Refit door to eliminate friction points, wet scrape/sand all surfaces, make necessary repairs, including installation of weatherstripping or other "soft" stop material, stabilize all surfaces and repaint 2) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 3) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint. |
| <b>Kitchen 2</b>   |                                   |              |   |   |
| <b>Entry door jamb</b> represents a deteriorated lead paint friction/impact surface hazards  | Medium                            | Low          | 1) Remove and replace with new door systems or 2) replace individual lead painted components or 3) strip all surfaces bare to the substrate, stabilize surfaces, and repaint.   | 1) Refit door to eliminate friction points, wet scrape/sand all surfaces, make necessary repairs, including installation of weatherstripping or other "soft" stop material, stabilize all surfaces and repaint 2) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 3) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint. |
| <b>Bedroom 4</b>   |                                   |              |   |   |
| <b>Window sash exterior, and troughs</b> represent deteriorated lead paint friction/impact surface hazards   | Low                               | Low          | 1) Remove and replace with new replacement windows or 2) replace individual lead painted components 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint. | 1) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 2) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint.  |
| <b>Bedroom 5</b>   |                                   |              |   |   |
| <b>Window sash exteriors, troughs and jambs</b> represent deteriorated lead paint friction/impact surface hazards  | Low                               | Low          | 1) Remove and replace with new replacement windows or 2) replace individual lead painted components 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint. | 1) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 2) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint.  |

**ETC - Environmental Services WILCO Environmental**

| Summary of Existing Lead Based Paint Hazards including Abatement and Interim Control Options  |                                   |          |   |  |
|---|-----------------------------------|----------|---|--|
| Client  | Genesee County Land Bank          |          |   |  |
| Survey Location:  | 2109 Barbara Dr., Flint, MI 48504 |          |   |  |
| Survey Date:  | 06/15/11                          | Job#:    | 137262  |  |
| Inspectors:   | Michael Gravlin                   |          |   |  |
| <p><b>The items listed here represent the lead based paint hazards found at this building/site. For each identified hazard, there are corresponding options for performing abatement (long term) fixes and interim control (shorter term) fixes. The client and/or their representative need to select the appropriate and affordable solution to address each of the identified hazards.</b></p> <p><b>*Always refer to the Potential Hazard Chart (Appendix C) to determine where other lead painted items may be located as not to create additional hazards during the course of the work. If these items are disturbed, lead safe work practices must be followed.</b></p> <p><b>*Selected abatement and interim control activities should be completed by a certified abatement contractor or when appropriate a certified renovation firm. After completing these activities, complete and thorough cleaning must be performed following EPA/HUD "Lead Safe Work Practices Procedures". Additionally, after all work has been completed, a final lead clearance should be conducted and may be required. It is the responsibility of the person(s) performing the lead hazard control work to ensure that all appropriate procedures and regulations are followed.</b></p> |                                   |          |   |  |
| Identified Hazard   | Severity                          | Priority | Abatement Options   | Interim Control Options  |
| <b>Family Room 8</b>  |                                   |          |   |  |
| <b>Window sash exteriors and troughs</b> represent deteriorated lead paint <b>friction/impact</b> surface hazards   | Low                               | Low      | 1) Remove and replace with new replacement windows or 2) replace individual lead painted components 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint. | 1) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 2) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint. |
| <b>Office 9</b>   |                                   |          |   |  |
| <b>Window sash exteriors and troughs</b> represent deteriorated lead paint <b>friction/impact</b> surface hazards   | Low                               | Low      | 1) Remove and replace with new replacement windows or 2) replace individual lead painted components 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint. | 1) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 2) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint. |
| <b>Bathroom 10</b>  |                                   |          |   |  |
| <b>Window sash exteriors, troughs and jambs</b> represent deteriorated lead paint <b>friction/impact</b> surface hazards  | Low                               | Low      | 1) Remove and replace with new replacement windows or 2) replace individual lead painted components 3) enclose all lead painted surfaces or 4) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint. | 1) Use friction reduction treatments (jamb liners, weatherstripping, rubber padding, tread covers, etc.) to reduce wear or 2) Wet plane all friction / impact surfaces, wet scrape all remaining surfaces, make necessary repairs, stabilize all surfaces and repaint. |



***During the course of this lead combination investigation:***

***Lead Based Paint was identified on some components***

***Lead Based Paint Hazards were identified in some areas***

**II.) PURPOSE AND SCOPE OF WORK**

Attached here within are the results of a lead based paint (LPB) combination inspection and risk assessment (combination survey) performed by Michael Gravlin of ETC - Environmental Services (ETC). This combination survey was performed for Genesee County Land Bank at 2109 Barbara Drive in Flint, MI 48504. The site work was performed on June 15, 2011 by Michael Gravlin. Michael Gravlin is an EPA certified lead risk assessor and has completed the manufacturer's training course regarding radiation safety and x-ray measurement technology.

The purpose of a lead combination survey is to identify any existing lead paint and/or lead hazards that might exist within the residence. The process of identifying all lead based paint in a residence is referred to as a lead inspection while identifying all lead hazards in a residence is a risk assessment. It has become common in the industry to perform both of these services at one time and this is referred to as a lead combination survey. Although this report represents both services, for the purposes of discussion, we will discuss the methods and goals of inspections and risk assessments separately.

**A. Lead Inspections**

ETC's inspection started by breaking down the dwelling into separate functional areas. For the testing of paint, each functional area was then broken down into different building components, according to the various colors and substrates. Samples were collected using a X-Ray Fluorescence (XRF) analyzer. The XRF uses radioactive cadmium to determine the amount of lead located within each surface tested. At the time of this report, HUD has defined Lead-Based Paint (LBP) as paint with an average concentration of 1.0 mg/cm<sup>2</sup>, or greater using the XRF technology. Test results for this residence that can be compared against the HUD and EPA standards can be found in Appendix A.

In cases where the XRF detected LBP and the paint was in poor condition (cracked, peeling, chalking, etc.) the inspector may recommended further testing be done. Additional samples such as dust wipes, vacuum samples, air samples or soil samples may be warranted in the areas where the paint is poor condition.

### B. Lead Risk Assessments

A lead risk assessment attempts to identify lead hazards that may exist within a home. Lead hazards are defined in an important lead regulation called Title X, the Title X definition includes the following six items:

1. Lead paint that is deteriorated (flaking, chipped, peeling, etc.) in poor condition as defined by Title X.
2. Lead paint on a friction surface (i.e. rubbing doors, sliding windows, etc.) where associated dust levels exceed safe limits.
3. Lead paint on an impact surface (i.e. door jambs, stair treads, etc.) where the impact is caused by another building component.
4. Lead paint on a chewable surface (i.e. window sills, shelves, etc.) where there is visible evidence of teeth marks.
5. Lead contaminated dust where levels exceed safe limits.
6. Lead contaminated soils where levels exceed safe limits.

A lead risk assessment attempts to identify hazards by taking a series of dust, soil and deteriorated paint samples and comparing them to associated limits developed by HUD and EPA.

### C. Project Limitations and Problems

Throughout the course of any LBP combination there can be a number of problems including: areas or surfaces that could not be tested, inaccessible areas, locked doors, problems due to inclement weather, etc. During this combination there may have been materials or items that could not be tested or sampled. These materials must be assumed to be lead based paint and treated as such. The items / materials that could not be tested and must therefore be assumed to be lead painted include:

- Room 1 side a stationary windows exterior—poor condition

There may have also been unusual circumstances for this project that may have affected the project. The unusual circumstances existing at 2109 Barbara Drive included:

- Overall condition of the house is poor, house exterior is transite and brick, windows are wood, room 1 side a is a fixed/non-opening window, tri-level house.

- X-Ray Fluorescence (XRF) is a non-destructive type of paint testing. Inspectors do not remove items that are fastened shut, down, together or otherwise made to impede access. Drop ceiling tiles, furniture, equipment, and other items are not removed by the inspectors, those areas should be made to be accessible to the inspector by the building owner. Excessive storage conditions, deferred cleaning practices, and unsafe building conditions could be cause for a building component to not be tested. If a building component is present but does not show up on the inspection report it should be considered to be lead painted unless it was installed after 1978 or has a factory finish on it.
- It is also possible that wall hangings, flags, banners, pictures wall shelving units and large furniture may hide damage to wall surfaces. If those items are covering up damage, it could change the classification of that component from intact or fair to poor. If this is the case, treat those damaged surfaces as though they are a hazard.
- Bare soil areas will change with usage, weather and other factors beyond the control of the risk assessor who wrote this report.

### III.) REGULATORY INFORMATION

#### A. Title X

In October of 1992 the Residential Lead-Based Paint Hazard Reduction Act was passed. This was a sweeping act aimed at reducing the exposure to Americans to lead hazards. The regulation affected all areas of the population. As part of Title X, many other agencies were charged with responsibilities in assuring the LBP's were addressed. OSHA was required to pass a construction standard, HUD was required to promulgate specific and definitive rules for addressing Public and Indian housing and the EPA was required to pass regulations for real estate disclosure, pre-renovation disclosure, training and certification programs for people working on or with LBP and rules for conducting renovation activities safely following "lead safe work practices". This act is the base from which all other regulations affecting LBP have grown.

#### B. Department of Housing and Urban Development (HUD) Regulations

By recognizing lead based paint (LBP) as a potential health hazard, HUD became the lead federal agency in the identification of lead hazards and has the primary responsibility to regulate LBP in Public or Indian housing. HUD has generated guidelines and performed extensive research to develop comprehensive requirements for LBP inspections, risk assessments and lead abatement or removal activities. These guidelines are enforceable in Public or Indian housing projects or any other project where HUD funds are dispersed. This includes most community development block grant (CDBG) funds as well as other housing assistance as provided by HUD, VA, etc. These methods represent the "State of the Art" technology for lead activities. At this point, EPA has developed similar rules that are in force in all housing and child occupied facilities and are enforced on a State by State basis.

If the work to be completed on this project is federally, state or locally funded, it is likely the full HUD regulations will apply. HUD program requirements for most projects are determined by the amount of money spent on the project. In general the requirements are:

***For all projects where the rehabilitation costs will be between \$0 - \$25,000***

Genesee County Land Bank or their contractors (as you determine) may choose any combination of the following three (3) options to address the hazards found in the executive summary.

- all interim control options
- some interim controls and some abatement options
- or all abatement options

Also, please note that anytime even one abatement option is chosen, the contractor and their employees must be fully certified licensed through the State of Michigan – Lead Program to perform any abatement work.

***For all projects where the rehabilitation costs will exceed \$25,000***

In this case, Genesee County Land Bank or their contractors (as you determine) must choose ONLY abatement options to address the hazards identified.

This has serious repercussions for Genesee County Land Bank as abatement options are almost always more expensive than interim controls and this price difference between \$24,999 and \$25,001 may require large extra lead expenses to the program costs for this property. *You may wish to share this information with all of your selected contractors so they better understand the potential cost increases when their bid price exceeds \$25,000.*

Please note, this is only a general outline and the HUD regulations are very complex. For instance some costs on a project (i.e. the initial risk assessment and final clearance) may not count toward the rehabilitation costs. For further information, refer to the HUD guidelines or contact a ETC representative.

**C. Environmental Protection Agency (EPA):**

Recently, EPA adopted HUD guidelines for conducting LBP inspections, risk assessments and abatement work practices for lead issues. Both HUD and EPA define Lead-based Paint (LBP) as an average concentration of 1.0 mg/cm<sup>2</sup> when using XRF technology and 1/2 % by weight when reviewing paint chips.

- EPA Real Estate Disclosure Act: EPA issued a regulation to insure that families receive information necessary to protect themselves from LBP hazards when purchasing, renting or leasing an older home. In order to accomplish this, the EPA required information to be disseminated during real estate transfers. This act requires sellers and landlords to:
  - Disclose all known information on LBP and hazards in the housing.
  - Complete a Federal disclosure form, including a lead warning statement, provide a copy to the purchaser/prospect, and retain it for three years.
  - Provide purchasers/prospective tenants with an EPA pamphlet on lead hazards.
  - Sellers are also required to give purchasers a 10-day opportunity to conduct a LBP inspection or risk assessment before becoming obligated to purchase the housing.

Agents are required to ensure that the seller or leaser comply with these requirements or perform these requirements themselves. Failure of the seller, leaser, or agent to comply could result in being sued for damages, and being subjected to civil and criminal penalties, such as potential fines and imprisonment.

- EPA Pre-Renovation Rule (PRE): Additionally, EPA issued a regulation to insure contractors warn occupants considering construction within their residence of the possibility that lead dust could be created and work with the selected contractor to reduce this possibility. This act requires renovation contractors of older homes to:
  - Discuss information on LBP and hazards that could be created during a renovation project.
  - Provide purchasers/prospective tenants with an EPA pamphlet on lead hazards and get a signature or other evidence of delivery.
  - This regulation also recommended that all renovations in older housing be completed by trained persons following lead safe work practices.
- EPA Renovation, Repair and Painting Rule (RRP): The most recent EPA regulation (April 2010) regarding LBP was the RRP. This regulation substantially changed requirements for all contractors performing renovations in older housing. This act requires renovation contractors of older homes to:
  - Requires all contractors to have a “certified renovator” working on each project to insure that the regulation is followed. Must be on-site during set-up, cleaning and self conducted clearance.
  - Certified renovators must take an 8 hour training class to receive their certification directly from the EPA.
  - Not only do individuals have to become certified, the companies taking contracts for work need to become “Certified Firms”. This involves applying to the EPA and paying a fee.
  - All work on any affected project must be done following lead safe work practices as taught in the class.
  - Requires posting of work area and possibly containment of work space.
  - Requires a final visual wipe test clearance be performed by the “Certified Renovator”. No neutral third party clearance is required but can be done if desired.

#### D. Occupational Safety and Health Administration (OSHA):

Additionally, OSHA has established regulations to prevent high lead exposure to employees working in lead related occupations. Along with establishing a permissible exposure limit (PEL), OSHA, working with the National Institute for Occupational Safety and Health (NIOSH), has mandated engineering, work practice and administrative controls to protect the worker. The current PEL at the time of this report is a concentration no greater than 50 micrograms per cubic meter of air.

#### E. City of Detroit (Ordinances and Codes)

The purpose and intent of the proposed amendments is to protect the health and welfare of children who occupy rented residential dwellings that contain lead-based paint hazards. Part II of this division requires owners of rental property to have a lead inspection and risk assessment performed at the rental property to determine the presence of lead paint and lead-based paint hazards. If lead based paint hazards exist, then the hazards must be reduced and controlled through interim controls or abatement prior to a tenant occupying the rental property. After interim controls or abatement are performed, the owner must obtain a clearance examination. Owners of rental property must obtain a lead clearance pursuant to Part II in order to receive a certificate of compliance from the City. A certificate of compliance is required for occupancy.

#### IV.) SAMPLE RESULTS AND INFORMATION

##### A. Lead Paint Sampling

Lead paint sample results are contained in Appendix B. All types of painted surfaces were tested using X-Ray fluorescence (XRF) technologies. XRF uses gamma photons from a sealed irradiation source to strike the atoms within the painted surface. Most commonly, an isotope of cobalt or cadmium is used to produce gamma photons. Because the source is radioactive, training and certification is required to operate an XRF lead analyzer. All inspectors have received the EPA three day lead inspection training and the manufacturer's XRF training. The radiation safety officer for ETC is Jeremy Westcott.

The serial number of the XRF instrument utilized in this project was 19124. These instruments are registered as radioactive materials with the State of Michigan Department of Environmental Quality. The registration number for these instruments is 031070-01-l01. ETC's representatives handle and operate the XRF instrument in accordance with the manufacturers' directives and methods described in the HUD Guidelines.

ETC's lead testing results are applicable for the time that testing was conducted and for the condition of surfaces at the time they were tested. If questions arise regarding lead content on surfaces that were not tested (or were inaccessible) by ETC, then additional testing services should be solicited to test those surfaces for lead.

##### B. Lead Dust Sampling

For combination surveys, lead dust sampling is required in areas where children are most likely to come into contact with dust. Areas for consideration include: children's bedroom (s), family rooms, play rooms, kitchens, bathrooms, etc. Lead dust samples are to be taken from at least six different rooms with samples from both the floor and either a window sill or window well within each room.

Current limits for lead dust samples taken during combination surveys are as follows in micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ):

|      | Floors | Window Sills | Window Wells/<br>Troughs | Ext. Concrete |
|------|--------|--------------|--------------------------|---------------|
| HUD  | 40     | 250          | 400                      | 800           |
| EPA  | 40     | 250          | 400                      | 800           |
| OSHA | ~9000  | ~9000        | ~9000                    | ~9000         |

Actual dust level results noted at the 2109 Barbara Drive residence are below. Any sample above the allowable regulatory limit is in bold.

| <i>Sample #</i> | <i>Room Location</i>        | <i>Component</i> | <i>Area Wiped (in sq. ft.)</i> | <i>Lead Concentration (in <math>\mu\text{g}/\text{ft}^2</math>)</i> |
|-----------------|-----------------------------|------------------|--------------------------------|---|
| WS 1            | Living room 1               | Floor            | 1.00                           | 20.20   |
| WS 2            | Living room 1 side a        | Window sill      | 0.61                           | < 16.39   |
| <b>WS 3</b>     | <b>Kitchen 2</b>            | <b>Floor</b>     | <b>1.00</b>                    | <b>314.00</b>   |
| WS 4            | Kitchen 2 side d            | Trough           | 1.12                           | 311.00  |
| WS 5            | Bedroom 4                   | Floor            | 1.00                           | 25.50   |
| WS 6            | Bedroom 4 side a            | Window sill      | 0.73                           | 27.50   |
| WS 7            | Bedroom 5                   | Floor            | 1.00                           | 15.00   |
| <b>WS 8</b>     | <b>Bedroom 5 side a</b>     | <b>Trough</b>    | <b>1.12</b>                    | <b>504.00</b>   |
| WS 9            | Bedroom 6                   | Floor            | 1.00                           | 20.30   |
| WS 10           | Bedroom 6 side c            | Window sill      | 0.63                           | 115.00  |
| WS 11           | Family room 8               | Floor            | 1.00                           | 25.90   |
| <b>WS 12</b>    | <b>Family room 8 side a</b> | <b>Trough</b>    | <b>1.12</b>                    | <b>653.00</b>   |

Any high dust levels noted here represent lead hazards and are included in the hazard charts in the Executive Summary. This chart details the lead dust problems identified (or lack thereof) within this residence. *Please keep in mind that if lead dust samples were not taken in each room of the residence the samples that were taken will be used to represent overall conditions in the residence.* This means that areas that were not individually sampled may be listed as having problems based upon the sampling that was conducted in other areas.

### C. Lead Soil Sampling

Lead soil sampling is required in areas where bare exposed soil is present around the house and the yard. Areas for consideration include: house perimeter, gardens, play areas, driveways, etc. Lead soil samples will only be taken if bare exposed soils exist. Sampling usually involves three areas: play areas where children are likely to come in contact with soil, the perimeter of the home (i.e. gardens, etc.) and other non-play areas of the yard where contact is less likely.

Current limits for lead soil samples taken during combination surveys are as follows in parts per million (ppm):

|     | Play Areas | House Perimeter or Other Areas of Yard |
|-----|------------|--|
| HUD | 400        | 1200                                   |
| EPA | 400        | 1200                                   |

Actual soil results for the 2109 Barbara Drive residence can be found in the chart below. Any sample above the allowable regulatory limit is in bold.

|      | Location           | Results (parts per million) |
|------|--------------------|-----------------------------|
| SS-1 | Perimeter of House | 28.6                        |

Any high soil levels noted here represent lead hazards and are included in the hazard charts in the Executive Summary. This chart details the lead soil problems identified (or lack thereof) within this residence. Please keep in mind that lead soil samples are composite samples where a small portion is taken from four or five different locations to make up the one sample. Therefore the results of this one sample represent all of the different areas where the separate pieces were acquired. Play areas and non-play areas should never be mixed in the same sample

## **V.) HAZARD CONTROL OPTION RECOMMENDATIONS**

Types of hazards that may have been identified during the lead combination include both identified hazards and potential hazards. Identified hazards include paint, dust and soil hazards that fit the six (6) hazard definitions of HUD and the EPA detailed above. For each identified hazard, hazard control options (recommendations) are given to explain how to address any problems identified in the sampling. In the case of the 2109 Barbara Drive property, hazard control options can be found in the Executive Summary Chart.

Potential hazards are areas of the residence where the occupant or owner may be completing renovation activities in the future. If future renovation activities were identified, these areas were sampled using the XRF instrument to determine lead content. If the paint in these areas was found to be above  $1.0 \text{ mg/cm}^2$ , they were listed as potential hazards. This is required as the up-coming renovation activities will likely disturb the paint and possibly create lead based dust hazards that do not currently exist. It is critical that the homeowner (or selected renovation contractor) follow "lead safe work practices" when working on the potential hazards to avoid creating lead dust hazards. A list of potential hazards identified during the combination can be found in Appendix C.

## **VI.) RE-EVALUATION RECOMMENDATIONS**

Anytime lead paint or hazards remain in the building and are not completely removed, the risk assessor is required to make recommendations for re-evaluating the building. This is the recommended time when the homeowner should hire a certified risk assessor to determine whether (1) conditions at the home have changed possibly causing additional hazards, (2) the initial hazard control options implemented have been effective or (3) if further work is warranted. The frequency of re-evaluations recommended is dependent on both the risk assessment results and the hazard control options that are chosen and implemented.

At the time of producing this risk assessment, the risk assessor can only be sure of the current conditions, but can not know for sure which hazard control options will be selected. For this reason, ETC has chosen to include a re-evaluation chart in Appendix F. To determine the re-evaluation frequency recommended for this residence, please refer to this chart and reference Schedule 3 as given in the chart. This schedule was chosen based upon the results of the initial risk assessment. After finding the appropriate schedule, the homeowner / building manager / owner will need to know which hazard control options were conducted. By knowing the appropriate schedule (Schedule 3) and the hazard control selected (chosen by the owner) you can determine the recommended re-evaluation frequency.

If you do not wish to follow the chart, you can opt to follow the most stringent re-evaluation frequency that would be to re-evaluate at: 6 months, then 1 year then 2 years.

## VII.) COST ESTIMATE

HUD and EPA regulations require the risk assessor to provide cost estimates for possible work to be completed. Below find a rough estimate of costs associated with lead remediation activities.

|                                    |                |                       |                       |
|------------------------------------|----------------|-----------------------|-----------------------|
| Encapsulation                      | \$3.50 sq. ft. | Enclosure wood        | \$4.00 sq. ft.        |
| Wet plane friction & impact points | \$2.50 sq. ft. | Enclosure metal       | \$5.00 sq. ft.        |
| Wet scrape and repaint             | \$2.00 sq. ft. | Enclosure drywall     | \$2.50 sq. ft.        |
| Window replacement                 | \$500 each     | Door replacement      | \$750.00 each.        |
| Dust removal-clean up              | \$1.25 sq. ft. | Soil abatement        | \$10.00 sq. ft.       |
| Siding Installation                | \$2.75 sq. ft. | Component replacement | 5 times material cost |

## VIII.) RECOMMENDATIONS FOR FUTURE OPERATIONS AND MAINTENANCE

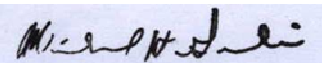
It is very important to note that future disturbance of lead painted surfaces may cause new and additional lead hazards. Homeowners, building managers and landlords are expected to follow "lead safe work practices" any time that a lead painted surface is disturbed. This means making sure very little dust is generated (i.e. wet sanding not dry sanding), not burning lead painted items, cleaning up thoroughly after work, etc.

In order to provide guidance for the owners, managers and landlords when conducting renovation, maintenance or potential future disturbance of painted surfaces, they should refer to an excellent manual developed by HUD titled "Lead Paint Safety: A Field Guide for Painting, Home Maintenance, and Renovation Work". This manual can be found for free on the Internet at <http://www.hud.gov/offices/lead/training/LBPguide.pdf>. Please download a copy of this manual before disturbing any painted surfaces within the residence. If access to the Internet is not available, you may order a copy at 1-800-424-5323.

If you have any questions not answered by this manual, please contact our office at (734) 955-6600. Thank you.

This report reviewed and submitted by

**ETC – Environmental Services**



Michael Gravlin (Cert. # P-00313)  
EPA / Michigan Certified Risk Assessor

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

*All Paint Samples Taken - In Order Sampled*

*Please note: Post 1978 Construction, factory finished and unpainted items were not sampled*

| Client           |       | Genesee County Land Bank          |               |                    |           |                  |               |      |             |          |                                  |  |
|------------------|-------|-----------------------------------|---------------|--------------------|-----------|------------------|---------------|------|-------------|----------|----------------------------------|--|
| Survey Location: |       | 2109 Barbara Dr., Flint, MI 48504 |               |                    |           |                  |               |      |             |          |                                  |  |
| Survey Date:     |       | 06/15/11                          |               |                    |           |                  |               |      |             |          |                                  |  |
| Inspectors:      |       | Michael Gravlin                   |               |                    | License # | P-00313          |               |      | Job#        | 137262   |                                  |  |
| Sample #         | Floor | Wall / Side                       | Room and #    | Component          | Substrate | Visual Condition | Color         | Note | Depth Index | Result   | mg/cm <sup>2</sup> +/- Precision |  |
| 1                |       |                                   |               |                    |           |                  |               |      |             | Positive | 8.54 +/- 0                       |  |
| 2                |       |                                   | CALIBRATE     |                    |           |                  |               |      | 2.52        | Positive | 1 +/- 0.1                        |  |
| 3                |       |                                   | CALIBRATE     |                    |           |                  |               |      | 2.61        | Positive | 1 +/- 0.1                        |  |
| 4                |       |                                   | CALIBRATE     |                    |           |                  |               |      | 2.51        | Positive | 1 +/- 0.1                        |  |
| 5                | First | A                                 | Living Room 1 | Wall               | Drywall   | FAIR             | Yellow        |      | 1           | Negative | 0 +/- 0.02                       |  |
| 6                | First | B                                 | Living Room 1 | Wall               | Drywall   | FAIR             | Yellow        |      | 1           | Negative | 0 +/- 0.02                       |  |
| 7                | First | C                                 | Living Room 1 | Wall               | Drywall   | FAIR             | Yellow        |      | 1.72        | Negative | 0.01 +/- 0.03                    |  |
| 8                | First | D                                 | Living Room 1 | Wall               | Drywall   | FAIR             | Yellow        |      | 5.83        | Negative | 0.04 +/- 0.14                    |  |
| 9                | First | Ceiling                           | Living Room 1 | Ceiling            | Drywall   | FAIR             | Yellow        |      | 1           | Negative | 0 +/- 0.02                       |  |
| 10               | First | D                                 | Living Room 1 | Baseboard          | Wood      | FAIR             | Yellow        |      | 1           | Negative | 0.01 +/- 0.04                    |  |
| 11               | First | A                                 | Living Room 1 | Ceiling            | Drywall   | FAIR             | Yellow        |      | 1           | Negative | 0 +/- 0.03                       |  |
| 12               | First | A                                 | Living Room 1 | Win. Apron         | Wood      | FAIR             | Yellow        |      | 1           | Negative | 0 +/- 0.02                       |  |
| 13               | First | A                                 | Living Room 1 | Win. Sill/Stool    | Wood      | FAIR             | Yellow        |      | 2.22        | Negative | 0.02 +/- 0.09                    |  |
| 14               | First | A                                 | Living Room 1 | Win. Casing        | Wood      | FAIR             | Yellow        |      | 1.93        | Negative | 0.01 +/- 0.08                    |  |
| 15               | First | A                                 | Living Room 1 | Win. Sash          | Wood      | FAIR             | Yellow        |      | 1.93        | Negative | 0.01 +/- 0.05                    |  |
| 16               | First | A                                 | Living Room 1 | Door Casing        | Wood      | POOR             | Yellow        |      | 1           | Negative | 0 +/- 0.02                       |  |
| 17               | First | A                                 | Living Room 1 | Door Jamb          | Wood      | POOR             | White         |      | 4.76        | Positive | 1.2 +/- 0.2                      |  |
| 18               | First | A                                 | Living Room 1 | Entry door         | Wood      | POOR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 19               | First | B                                 | Living Room 1 | Clos. Casing       | Wood      | POOR             | Yellow        |      | 1           | Negative | 0 +/- 0.02                       |  |
| 20               | First | B                                 | Living Room 1 | Clos. Baseboard    | Wood      | POOR             | Beige         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 21               | First | B                                 | Living Room 1 | Clos. Shelf        | Wood      | POOR             | Beige         |      | 1           | Negative | 0.5 +/- 0.5                      |  |
| 22               | First | B                                 | Living Room 1 | Shelf Bracket      | Wood      | FAIR             | Beige         |      | 1.79        | Negative | 0.01 +/- 0.06                    |  |
| 23               | First | B                                 | Living Room 1 | Clothes Rod        | Wood      | POOR             | Beige         |      | 1.18        | Negative | 0.5 +/- 0.4                      |  |
| 24               | First | B                                 | Living Room 1 | Clos. Wall         | Drywall   | FAIR             | Beige         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 25               | First | B                                 | Living Room 1 | Clos. Ceiling      | Drywall   | FAIR             | Beige         |      | 2.01        | Negative | 0.01 +/- 0.04                    |  |
| 26               | First | B                                 | Living Room 1 | Access casing      | Wood      | FAIR             | Beige         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 27               | First | Floor                             | Living Room 1 | Floor              | Wood      | POOR             | Clear / Stain |      | 1.57        | Negative | 0.02 +/- 0.08                    |  |
| 28               | First | Floor                             | Hallway 3     | Floor              | Wood      | POOR             | Clear / Stain |      | 1           | Negative | 0 +/- 0.03                       |  |
| 29               | First | Floor                             | Hallway 3     | Stair Tread        | Wood      | POOR             | Clear / Stain |      | 1           | Negative | 0 +/- 0.03                       |  |
| 30               | First | Floor                             | Hallway 3     | Stair Riser        | Wood      | POOR             | Clear / Stain |      | 1           | Negative | 0 +/- 0.03                       |  |
| 31               | First | A                                 | Hallway 3     | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 32               | First | B                                 | Hallway 3     | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 33               | First | C                                 | Hallway 3     | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0.01 +/- 0.02                    |  |
| 34               | First | D                                 | Hallway 3     | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 35               | First | Ceiling                           | Hallway 3     | Ceiling            | Drywall   | FAIR             | White         |      | 2.26        | Negative | 0.01 +/- 0.03                    |  |
| 36               | First | Ceiling                           | Hallway 3     | Attic cover casing | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 37               | First | A                                 | Hallway 3     | Baseboard          | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 38               | First | A                                 | Hallway 3     | Door Casing        | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

*All Paint Samples Taken - In Order Sampled*

*Please note: Post 1978 Construction, factory finished and unpainted items were not sampled*

| Client           |              | Genesee County Land Bank          |                  |                        |             |                  |               |      |             |                 |                                  |  |
|------------------|--------------|-----------------------------------|------------------|------------------------|-------------|------------------|---------------|------|-------------|-----------------|----------------------------------|--|
| Survey Location: |              | 2109 Barbara Dr., Flint, MI 48504 |                  |                        |             |                  |               |      |             |                 |                                  |  |
| Survey Date:     |              | 06/15/11                          |                  |                        |             |                  |               |      |             |                 |                                  |  |
| Inspectors:      |              | Michael Gravlin                   |                  |                        | License #   | P-00313          |               |      | Job#        | 137262          |                                  |  |
| Sample #         | Floor        | Wall / Side                       | Room and #       | Component              | Substrate   | Visual Condition | Color         | Note | Depth Index | Result          | mg/cm <sup>2</sup> +/- Precision |  |
| 39               | First        | A                                 | Hallway 3        | Door Jamb              | Wood        | FAIR             | White         |      | 1.1         | Negative        | 0.01 +/- 0.04                    |  |
| 40               | First        | A                                 | Hallway 3        | Railing                | Wood        | FAIR             | Clear / Stain |      | 1.57        | Negative        | 0.01 +/- 0.07                    |  |
| 41               | First        | A                                 | Hallway 3        | Stair Stringer         | Wood        | FAIR             | White         |      | 1.32        | Negative        | 0.01 +/- 0.05                    |  |
| 42               | First        | A                                 | Bedroom 4        | Wall                   | Drywall     | POOR             | Yellow        |      | 1           | Negative        | 0 +/- 0.03                       |  |
| 43               | First        | B                                 | Bedroom 4        | Wall                   | Drywall     | POOR             | Yellow        |      | 5.18        | Negative        | 0.02 +/- 0.09                    |  |
| 44               | First        | C                                 | Bedroom 4        | Wall                   | Drywall     | POOR             | Yellow        |      | 3.31        | Negative        | 0.01 +/- 0.07                    |  |
| 45               | First        | D                                 | Bedroom 4        | Wall                   | Drywall     | POOR             | Yellow        |      | 1.16        | Negative        | 0.01 +/- 0.03                    |  |
| 46               | First        | Ceiling                           | Bedroom 4        | Ceiling                | Drywall     | FAIR             | Yellow        |      | 3.28        | Negative        | 0.01 +/- 0.06                    |  |
| 47               | First        | D                                 | Bedroom 4        | Baseboard              | Wood        | FAIR             | Yellow        |      | 2.08        | Negative        | 0.02 +/- 0.09                    |  |
| 48               | First        | D                                 | Bedroom 4        | Clos. Casing           | Wood        | FAIR             | Yellow        |      | 1.41        | Negative        | 0.01 +/- 0.05                    |  |
| 49               | First        | D                                 | Bedroom 4        | Clos. Door             | Metal       | FAIR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 50               | First        | D                                 | Bedroom 4        | Clos. Shelf            | Wood        | FAIR             | White         |      | 2.13        | Negative        | 0.01 +/- 0.08                    |  |
| 51               | First        | D                                 | Bedroom 4        | Clothes Rod            | Wood        | POOR             | White         |      | 1.87        | Negative        | 0.02 +/- 0.09                    |  |
| 52               | First        | D                                 | Bedroom 4        | Shelf Bracket          | Wood        | POOR             | Yellow        |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 53               | First        | D                                 | Bedroom 4        | Clos. Baseboard        | Wood        | FAIR             | Yellow        |      | 1           | Negative        | 0 +/- 0.03                       |  |
| 54               | First        | D                                 | Bedroom 4        | Clos. Wall             | Drywall     | FAIR             | Yellow        |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 55               | First        | D                                 | Bedroom 4        | Clos. Ceiling          | Drywall     | FAIR             | Yellow        |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 56               | First        | D                                 | Bedroom 4        | Door Casing            | Wood        | FAIR             | Yellow        |      | 5.2         | Negative        | 0.08 +/- 0.33                    |  |
| 57               | First        | D                                 | Bedroom 4        | Door Stop              | Wood        | FAIR             | Yellow        |      | 3.24        | Negative        | 0.03 +/- 0.15                    |  |
| 58               | First        | D                                 | Bedroom 4        | Door Jamb              | Wood        | FAIR             | Yellow        |      | 1           | Negative        | 0.01 +/- 0.03                    |  |
| 59               | First        | A                                 | Bedroom 4        | Win. Apron             | Wood        | FAIR             | Yellow        |      | 2.03        | Negative        | 0.01 +/- 0.08                    |  |
| 60               | First        | A                                 | Bedroom 4        | Win. Sill/Stool        | Wood        | POOR             | Yellow        |      | 1           | Negative        | 0.01 +/- 0.03                    |  |
| 61               | First        | A                                 | Bedroom 4        | Win. Casing            | Wood        | POOR             | Yellow        |      | 2.19        | Negative        | 0.01 +/- 0.08                    |  |
| 62               | First        | A                                 | Bedroom 4        | Win. Sash              | Wood        | POOR             | Yellow        |      | 2.35        | Negative        | 0.02 +/- 0.1                     |  |
| 63               | First        | A                                 | Bedroom 4        | Win. Well/Trough       | Wood        | POOR             | White         |      | 2.17        | Negative        | 0.7 +/- 0.3                      |  |
| <b>64</b>        | <b>First</b> | <b>A</b>                          | <b>Bedroom 4</b> | <b>Win. Jamb</b>       | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>1.43</b> | <b>Positive</b> | <b>1.4 +/- 0.4</b>               |  |
| <b>65</b>        | <b>First</b> | <b>A</b>                          | <b>Bedroom 4</b> | <b>Win. Sash, ext.</b> | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>1.86</b> | <b>Positive</b> | <b>1.6 +/- 0.6</b>               |  |
| 66               | First        | Floor                             | Bedroom 4        | Floor                  | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0 +/- 0.03                       |  |
| 67               | Second       | Floor                             | Bedroom 5        | Floor                  | Wood        | POOR             | Clear / Stain |      | 1.1         | Negative        | 0.01 +/- 0.05                    |  |
| 68               | Second       | A                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Paper         |      | 2.9         | Negative        | 0.09 +/- 0.13                    |  |
| 69               | Second       | B                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Paper         |      | 6.05        | Negative        | 0.25 +/- 0.33                    |  |
| 70               | Second       | C                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Paper         |      | 4.36        | Negative        | 0.14 +/- 0.24                    |  |
| 71               | Second       | D                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Paper         |      | 6.96        | Negative        | 0.3 +/- 0.22                     |  |
| 72               | Second       | D                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Pink          |      | 4.03        | Negative        | 0.21 +/- 0.28                    |  |
| 73               | Second       | A                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Pink          |      | 2.74        | Negative        | 0.12 +/- 0.17                    |  |
| 74               | Second       | B                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Pink          |      | 3.16        | Negative        | 0.11 +/- 0.22                    |  |
| 75               | Second       | C                                 | Bedroom 5        | Wall                   | Drywall     | POOR             | Pink          |      | 2.87        | Negative        | 0.11 +/- 0.12                    |  |
| 76               | Second       | Ceiling                           | Bedroom 5        | Ceiling                | Drywall     | FAIR             | White         |      | 4.07        | Negative        | 0.15 +/- 0.23                    |  |
| 77               | Second       | C                                 | Bedroom 5        | Door Casing            | Wood        | FAIR             | White         |      | 1.79        | Negative        | 0.09 +/- 0.19                    |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

#### All Paint Samples Taken - In Order Sampled

**Please note: Post 1978 Construction, factory finished and unpainted items were not sampled**

| Client           |        | Genesee County Land Bank          |            |                  |           |                  |               |      |             |          |                                  |  |
|------------------|--------|-----------------------------------|------------|------------------|-----------|------------------|---------------|------|-------------|----------|----------------------------------|--|
| Survey Location: |        | 2109 Barbara Dr., Flint, MI 48504 |            |                  |           |                  |               |      |             |          |                                  |  |
| Survey Date:     |        | 06/15/11                          |            |                  |           |                  |               |      |             |          |                                  |  |
| Inspectors:      |        | Michael Gravlin                   |            |                  | License # | P-00313          |               |      | Job#        | 137262   |                                  |  |
| Sample #         | Floor  | Wall / Side                       | Room and # | Component        | Substrate | Visual Condition | Color         | Note | Depth Index | Result   | mg/cm <sup>2</sup> +/- Precision |  |
| 78               | Second | C                                 | Bedroom 5  | Door Jamb        | Wood      | FAIR             | White         |      | 5.09        | Negative | 0.15 +/- 0.47                    |  |
| 79               | Second | C                                 | Bedroom 5  | Door Stop        | Wood      | FAIR             | White         |      | 1.66        | Negative | 0.01 +/- 0.06                    |  |
| 80               | Second | C                                 | Bedroom 5  | Door             | Wood      | FAIR             | Clear / Stain |      | 1           | Negative | 0 +/- 0.02                       |  |
| 81               | Second | C                                 | Bedroom 5  | Baseboard        | Wood      | FAIR             | Pink          |      | 3.79        | Negative | 0.18 +/- 0.41                    |  |
| 82               | Second | C                                 | Bedroom 5  | Clos. Casing     | Wood      | FAIR             | Pink          |      | 2.6         | Negative | 0.15 +/- 0.3                     |  |
| 83               | Second | C                                 | Bedroom 5  | Clos. Door       | Metal     | POOR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 84               | Second | C                                 | Bedroom 5  | Bookcase Shelf   | Wood      | FAIR             | White         |      | 1.41        | Negative | 0.01 +/- 0.06                    |  |
| 85               | Second | C                                 | Bedroom 5  | Bookcase framing | Wood      | FAIR             | White         |      | 1           | Negative | 0.01 +/- 0.04                    |  |
| 86               | Second | C                                 | Bedroom 5  | Clos. Shelf      | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 87               | Second | C                                 | Bedroom 5  | Shelf Bracket    | Wood      | FAIR             | White         |      | 1.1         | Negative | 0.01 +/- 0.04                    |  |
| 88               | Second | C                                 | Bedroom 5  | Shelf Bracket    | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 89               | Second | C                                 | Bedroom 5  | Clos. Baseboard  | Wood      | FAIR             | White         |      | 4.81        | Negative | 0.4 +/- 0.4                      |  |
| 90               | Second | C                                 | Bedroom 5  | Clos. Wall       | Drywall   | FAIR             | White         |      | 2.04        | Negative | 0.02 +/- 0.06                    |  |
| 91               | Second | C                                 | Bedroom 5  | Clos. Ceiling    | Drywall   | FAIR             | White         |      | 2.83        | Negative | 0.02 +/- 0.06                    |  |
| 92               | Second | A                                 | Bedroom 5  | Win. Apron       | Wood      | FAIR             | White         |      | 2.39        | Negative | 0.05 +/- 0.16                    |  |
| 93               | Second | A                                 | Bedroom 5  | Win. Sill/Stool  | Wood      | FAIR             | White         |      | 4.02        | Negative | 0.05 +/- 0.24                    |  |
| 94               | Second | A                                 | Bedroom 5  | Win. Casing      | Wood      | FAIR             | White         |      | 7.86        | Negative | 0.22 +/- 0.73                    |  |
| 95               | Second | A                                 | Bedroom 5  | Win. Sash        | Wood      | POOR             | White         |      | 3.64        | Negative | 0.18 +/- 0.41                    |  |
| 96               | Second | A                                 | Bedroom 5  | Win. Well/Trough | Wood      | POOR             | White         |      | 3.19        | Positive | 1.4 +/- 0.4                      |  |
| 97               | Second | A                                 | Bedroom 5  | Win. Jamb        | Wood      | POOR             | White         |      | 4.44        | Positive | 1.4 +/- 0.4                      |  |
| 98               | Second | A                                 | Bedroom 5  | Win. Sash, ext.  | Wood      | POOR             | White         |      | 3.19        | Positive | 1 +/- 0.1                        |  |
| 99               | Second | A                                 | Bedroom 6  | Wall             | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 100              | Second | B                                 | Bedroom 6  | Wall             | Drywall   | POOR             | White         |      | 3.4         | Negative | 0.01 +/- 0.06                    |  |
| 101              | Second | C                                 | Bedroom 6  | Wall             | Drywall   | POOR             | Beige         |      | 2.21        | Negative | 0.01 +/- 0.04                    |  |
| 102              | Second | D                                 | Bedroom 6  | Wall             | Drywall   | POOR             | Beige         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 103              | Second | Ceiling                           | Bedroom 6  | Ceiling          | Drywall   | POOR             | Beige         |      | 1.23        | Negative | 0 +/- 0.02                       |  |
| 104              | Second | D                                 | Bedroom 6  | Baseboard        | Wood      | FAIR             | Beige         |      | 1           | Negative | 0.01 +/- 0.03                    |  |
| 105              | Second | C                                 | Bedroom 6  | Win. Apron       | Wood      | FAIR             | Beige         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 106              | Second | C                                 | Bedroom 6  | Win. Sill/Stool  | Wood      | FAIR             | Beige         |      | 6.13        | Negative | 0.08 +/- 0.36                    |  |
| 107              | Second | C                                 | Bedroom 6  | Win. Casing      | Wood      | FAIR             | Beige         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 108              | Second | C                                 | Bedroom 6  | Win. Sash        | Wood      | FAIR             | Beige         |      | 2.24        | Negative | 0.02 +/- 0.1                     |  |
| 109              | Second | C                                 | Bedroom 6  | Win. Sash, ext.  | Wood      | POOR             | Beige         |      | 3.1         | Negative | 0.9 +/- 0.1                      |  |
| 110              | Second | C                                 | Bedroom 6  | Win. Jamb        | Wood      | POOR             | Beige         |      | 1           | Negative | 0.26 +/- 0.24                    |  |
| 111              | Second | A                                 | Bedroom 6  | Clos. Casing     | Wood      | FAIR             | White         |      | 1.65        | Negative | 0.01 +/- 0.07                    |  |
| 112              | Second | A                                 | Bedroom 6  | Clos. Door       | Metal     | FAIR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 113              | Second | A                                 | Bedroom 6  | Bookcase Shelf   | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 114              | Second | A                                 | Bedroom 6  | Bookcase Framing | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 115              | Second | A                                 | Bedroom 6  | Clos. Shelf      | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

#### All Paint Samples Taken - In Order Sampled

**Please note: Post 1978 Construction, factory finished and unpainted items were not sampled**

| Client           |        | Genesee County Land Bank          |            |                    |           |                  |               |      |             |          |                                  |  |
|------------------|--------|-----------------------------------|------------|--------------------|-----------|------------------|---------------|------|-------------|----------|----------------------------------|--|
| Survey Location: |        | 2109 Barbara Dr., Flint, MI 48504 |            |                    |           |                  |               |      |             |          |                                  |  |
| Survey Date:     |        | 06/15/11                          |            |                    |           |                  |               |      |             |          |                                  |  |
| Inspectors:      |        | Michael Gravlin                   |            |                    | License # | P-00313          |               |      | Job#        | 137262   |                                  |  |
| Sample #         | Floor  | Wall / Side                       | Room and # | Component          | Substrate | Visual Condition | Color         | Note | Depth Index | Result   | mg/cm <sup>2</sup> +/- Precision |  |
| 116              | Second | A                                 | Bedroom 6  | Shelf Bracket      | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 117              | Second | A                                 | Bedroom 6  | Clothes Rod        | Wood      | POOR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 118              | Second | A                                 | Bedroom 6  | Clos. Baseboard    | Wood      | FAIR             | White         |      | 6.33        | Negative | 0.04 +/- 0.25                    |  |
| 119              | Second | A                                 | Bedroom 6  | Clos. Wall         | Drywall   | FAIR             | White         |      | 1           | Negative | 0.01 +/- 0.02                    |  |
| 120              | Second | A                                 | Bedroom 6  | Clos. Ceiling      | Drywall   | FAIR             | White         |      | 1.92        | Negative | 0.02 +/- 0.08                    |  |
| 121              | Second | A                                 | Bedroom 6  | Door Casing        | Wood      | FAIR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 122              | Second | A                                 | Bedroom 6  | Door Jamb          | Wood      | FAIR             | White         |      | 1.36        | Negative | 0.01 +/- 0.06                    |  |
| 123              | Second | A                                 | Bedroom 6  | Door Stop          | Wood      | FAIR             | White         |      | 2.73        | Negative | 0.02 +/- 0.12                    |  |
| 124              | Second | A                                 | Bedroom 6  | Door               | Wood      | FAIR             | Clear / Stain |      | 1.12        | Negative | 0.02 +/- 0.05                    |  |
| 125              | Second | Floor                             | Bedroom 6  | Floor              | Wood      | POOR             | Clear / Stain |      | 1           | Negative | 0 +/- 0.03                       |  |
| 126              | Second | A                                 | Bathroom 7 | Wall               | Drywall   | FAIR             | White         |      | 2.17        | Negative | -0.3 +/- 1.24                    |  |
| 127              | Second | B                                 | Bathroom 7 | Wall               | Drywall   | FAIR             | White         |      | 1.15        | Negative | 0 +/- 0.02                       |  |
| 128              | Second | C                                 | Bathroom 7 | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 129              | Second | D                                 | Bathroom 7 | Wall               | Drywall   | POOR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 130              | Second | D                                 | Bathroom 7 | Laundry Chute      | Drywall   | POOR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 131              | Second | Ceiling                           | Bathroom 7 | Ceiling            | Drywall   | FAIR             | White         |      | 1           | Negative | 0.01 +/- 0.03                    |  |
| 132              | Second | D                                 | Bathroom 7 | Laundry Chute Door | Metal     | FAIR             | White         |      | 6.21        | Negative | 0.05 +/- 0.15                    |  |
| 133              | Second | D                                 | Bathroom 7 | Baseboard          | Wood      | FAIR             | White         |      | 1.92        | Negative | 0.02 +/- 0.09                    |  |
| 134              | Second | D                                 | Bathroom 7 | Cabinet Out        | Wood      | POOR             | White         |      | 1.27        | Negative | 0.01 +/- 0.03                    |  |
| 135              | Second | D                                 | Bathroom 7 | Cabinet Door       | Wood      | POOR             | Yellow        |      | 1           | Negative | 0 +/- 0.03                       |  |
| 136              | Second | D                                 | Bathroom 7 | Cabinet Door       | Wood      | POOR             | Clear / Stain |      | 1           | Negative | 0.01 +/- 0.04                    |  |
| 137              | Second | D                                 | Bathroom 7 | Cabinet In         | Metal     | POOR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 138              | Second | A                                 | Bathroom 7 | Door Casing        | Wood      | FAIR             | White         |      | 6.49        | Negative | 0.4 +/- 0.5                      |  |
| 139              | Second | A                                 | Bathroom 7 | Door Jamb          | Wood      | FAIR             | White         |      | 1.46        | Negative | 0.01 +/- 0.06                    |  |
| 140              | Second | A                                 | Bathroom 7 | Door Stop          | Wood      | FAIR             | White         |      | 2.05        | Negative | 0.01 +/- 0.07                    |  |
| 141              | Second | A                                 | Bathroom 7 | Door               | Wood      | POOR             | Clear / Stain |      | 1.64        | Negative | 0.03 +/- 0.07                    |  |
| 142              | Second | C                                 | Bathroom 7 | Win. Sill/Stool    | Wood      | POOR             | White         |      | 1           | Negative | 0 +/- 0.03                       |  |
| 143              | Second | C                                 | Bathroom 7 | Win. Casing        | Wood      | POOR             | White         |      | 3.69        | Negative | 0.04 +/- 0.19                    |  |
| 144              | Second | C                                 | Bathroom 7 | Win. Sash          | Wood      | POOR             | White         |      | 2.27        | Negative | 0.03 +/- 0.13                    |  |
| 145              | Second | C                                 | Bathroom 7 | Win. Sash, ext.    | Wood      | POOR             | White         |      | 2.44        | Negative | 0.4 +/- 0.3                      |  |
| 146              | Second | C                                 | Bathroom 7 | Win. Well/Trough   | Wood      | POOR             | White         |      | 4.42        | Negative | 0.7 +/- 0.2                      |  |
| 147              | Upper  | C                                 | Bathroom 7 | Win. Jamb          | Wood      | POOR             | White         |      | 3.79        | Negative | 0.8 +/- 0.2                      |  |
| 148              | Upper  | C                                 | Bathroom 7 | Bathub             | Metal     | POOR             | White         |      | 2.49        | Negative | -0.28 +/- 0.95                   |  |
| 149              | Main   | A                                 | Kitchen 2  | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 150              | Main   | B                                 | Kitchen 2  | Wall               | Drywall   | FAIR             | White         |      | 1.68        | Negative | 0.01 +/- 0.02                    |  |
| 151              | Main   | C                                 | Kitchen 2  | Wall               | Drywall   | FAIR             | White         |      | 1           | Negative | 0 +/- 0.02                       |  |
| 152              | Main   | D                                 | Kitchen 2  | Wall               | Drywall   | FAIR             | White         |      | 1.1         | Negative | 0.01 +/- 0.03                    |  |
| 153              | Main   | Ceiling                           | Kitchen 2  | Ceiling            | Drywall   | FAIR             | White         |      | 9.82        | Negative | 0.02 +/- 0.69                    |  |
| 154              | Main   | D                                 | Kitchen 2  | Baseboard          | Wood      | FAIR             | White         |      | 1.48        | Negative | 0.01 +/- 0.06                    |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

*All Paint Samples Taken - In Order Sampled*

*Please note: Post 1978 Construction, factory finished and unpainted items were not sampled*

| Client           |              | Genesee County Land Bank          |                      |                        |             |                  |               |      |             |                 |                                  |  |
|------------------|--------------|-----------------------------------|----------------------|------------------------|-------------|------------------|---------------|------|-------------|-----------------|----------------------------------|--|
| Survey Location: |              | 2109 Barbara Dr., Flint, MI 48504 |                      |                        |             |                  |               |      |             |                 |                                  |  |
| Survey Date:     |              | 06/15/11                          |                      |                        |             |                  |               |      |             |                 |                                  |  |
| Inspectors:      |              | Michael Gravlin                   |                      |                        | License #   | P-00313          |               |      | Job#        | 137262          |                                  |  |
| Sample #         | Floor        | Wall / Side                       | Room and #           | Component              | Substrate   | Visual Condition | Color         | Note | Depth Index | Result          | mg/cm <sup>2</sup> +/- Precision |  |
| 155              | Main         | D                                 | Kitchen 2            | Win. Apron             | Wood        | FAIR             | White         |      | 6.87        | Negative        | 0.08 +/- 0.39                    |  |
| 156              | Main         | D                                 | Kitchen 2            | Win. Sill/Stool        | Wood        | FAIR             | White         |      | 3.13        | Negative        | 0.04 +/- 0.18                    |  |
| 157              | Main         | D                                 | Kitchen 2            | Win. Casing            | Wood        | FAIR             | White         |      | 1           | Negative        | 0 +/- 0.03                       |  |
| 158              | Main         | D                                 | Kitchen 2            | Win. Sash              | Wood        | FAIR             | White         |      | 1.45        | Negative        | 0.02 +/- 0.08                    |  |
| 159              | Main         | D                                 | Kitchen 2            | Win. Sash, ext.        | Wood        | POOR             | White         |      | 1.29        | Negative        | 0.01 +/- 0.04                    |  |
| 160              | Main         | D                                 | Kitchen 2            | Win. Well/Trough       | Wood        | POOR             | White         |      | 2.37        | Negative        | 0.9 +/- 0.1                      |  |
| 161              | Main         | D                                 | Kitchen 2            | Win. Jamb              | Wood        | POOR             | White         |      | 1           | Negative        | 0 +/- 0.03                       |  |
| <b>162</b>       | <b>Main</b>  | <b>C</b>                          | <b>Kitchen 2</b>     | <b>Door Jamb</b>       | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>3.12</b> | <b>Positive</b> | <b>1.4 +/- 0.4</b>               |  |
| 163              | Main         | C                                 | Kitchen 2            | Cabinet Out            | Wood        | POOR             | White         |      | 1           | Negative        | 0.01 +/- 0.04                    |  |
| 164              | Main         | C                                 | Kitchen 2            | Cabinet Door           | Wood        | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 165              | Main         | C                                 | Kitchen 2            | Drawer                 | Wood        | POOR             | White         |      | 2.28        | Negative        | 0.01 +/- 0.09                    |  |
| 166              | Main         | C                                 | Kitchen 2            | Cabinet In             | Wood        | POOR             | Clear / Stain |      | 1.29        | Negative        | 0.01 +/- 0.05                    |  |
| 167              | Lower        | B                                 | Family Room 8        | Wall                   | Drywall     | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 168              | Lower        | B                                 | Family Room 8        | Wall                   | Drywall     | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 169              | Lower        | C                                 | Family Room 8        | Wall                   | Drywall     | POOR             | White         |      | 6.42        | Negative        | 0.06 +/- 0.3                     |  |
| 170              | Lower        | D                                 | Family Room 8        | Wall                   | Drywall     | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 171              | Lower        | D                                 | Family Room 8        | Wainscoting            | Wood        | FAIR             | Green         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 172              | Lower        | A                                 | Family Room 8        | Wainscoting            | Wood        | FAIR             | Green         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 173              | Lower        | B                                 | Family Room 8        | Wainscoting            | Wood        | FAIR             | Green         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 174              | Lower        | C                                 | Family Room 8        | Wainscoting            | Wood        | FAIR             | Green         |      | 1.46        | Negative        | 0.01 +/- 0.03                    |  |
| 175              | Lower        | C                                 | Family Room 8        | Ceiling                | Drywall     | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 176              | Lower        | A                                 | Family Room 8        | Chair Rail             | Wood        | POOR             | Green         |      | 1           | Negative        | 0.01 +/- 0.04                    |  |
| 177              | Lower        | A                                 | Family Room 8        | Win. Sill/Stool        | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0.01 +/- 0.05                    |  |
| 178              | Lower        | A                                 | Family Room 8        | Win. Casing            | Wood        | POOR             | Clear / Stain |      | 2.03        | Negative        | 0.04 +/- 0.14                    |  |
| 179              | Lower        | A                                 | Family Room 8        | Win. Sash              | Wood        | POOR             | Clear / Stain |      | 1.47        | Negative        | 0.04 +/- 0.11                    |  |
| <b>180</b>       | <b>Lower</b> | <b>A</b>                          | <b>Family Room 8</b> | <b>Win. Sash, ext.</b> | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>1.68</b> | <b>Positive</b> | <b>1.2 +/- 0.2</b>               |  |
| 181              | Lower        | A                                 | Family Room 8        | Win. Well/Trough       | Wood        | POOR             | White         |      | 1.74        | Negative        | 0.7 +/- 0.3                      |  |
| 182              | Lower        | A                                 | Family Room 8        | Win. Jamb              | Wood        | POOR             | White         |      | 1.39        | Negative        | 0.5 +/- 0.4                      |  |
| 183              | Lower        | D                                 | Family Room 8        | Clos. Casing           | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0 +/- 0.03                       |  |
| 184              | Lower        | D                                 | Family Room 8        | Clos. Jamb             | Wood        | POOR             | Clear / Stain |      | 1.38        | Negative        | 0.03 +/- 0.09                    |  |
| 185              | Lower        | D                                 | Family Room 8        | Clos. Door             | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 186              | Lower        | D                                 | Family Room 8        | Clos. Shelf            | Wood        | POOR             | White         |      | 2.05        | Negative        | 0.02 +/- 0.1                     |  |
| 187              | Lower        | D                                 | Family Room 8        | Shelf Bracket          | Wood        | POOR             | White         |      | 3.83        | Negative        | 0.04 +/- 0.19                    |  |
| 188              | Lower        | D                                 | Family Room 8        | Cabinet casing         | Wood        | FAIR             | White         |      | 1           | Negative        | 0.01 +/- 0.04                    |  |
| 189              | Lower        | D                                 | Family Room 8        | Cabinet Door           | Wood        | FAIR             | White         |      | 1           | Negative        | 0 +/- 0.03                       |  |
| 190              | Lower        | D                                 | Family Room 8        | Crawl Access casing    | Wood        | FAIR             | White         |      | 1           | Negative        | 0.02 +/- 0.06                    |  |
| 191              | Lower        | D                                 | Family Room 8        | Crawl Access           | Wood        | FAIR             | White         |      | 1.43        | Negative        | 0.01 +/- 0.06                    |  |
| 192              | Lower        | D                                 | Family Room 8        | Clos. Baseboard        | Wood        | POOR             | Clear / Stain |      | 1.5         | Negative        | 0.02 +/- 0.08                    |  |
| 193              | Lower        | D                                 | Family Room 8        | Clos. Wall             | Drywall     | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

#### All Paint Samples Taken - In Order Sampled

**Please note: Post 1978 Construction, factory finished and unpainted items were not sampled**

| Client           |              | Genesee County Land Bank          |                    |                         |             |                  |               |      |             |                 |                                  |  |
|------------------|--------------|-----------------------------------|--------------------|-------------------------|-------------|------------------|---------------|------|-------------|-----------------|----------------------------------|--|
| Survey Location: |              | 2109 Barbara Dr., Flint, MI 48504 |                    |                         |             |                  |               |      |             |                 |                                  |  |
| Survey Date:     |              | 06/15/11                          |                    |                         |             |                  |               |      |             |                 |                                  |  |
| Inspectors:      |              | Michael Gravlin                   |                    |                         | License #   | P-00313          |               |      | Job#        | 137262          |                                  |  |
| Sample #         | Floor        | Wall / Side                       | Room and #         | Component               | Substrate   | Visual Condition | Color         | Note | Depth Index | Result          | mg/cm <sup>2</sup> +/- Precision |  |
| 194              | Lower        | D                                 | Family Room 8      | Clos. Ceiling           | Drywall     | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 195              | Lower        | C                                 | Family Room 8      | Stair Stringer          | Wood        | FAIR             | White         |      | 1           | Negative        | 0.01 +/- 0.05                    |  |
| 196              | Lower        | C                                 | Family Room 8      | Door Casing             | Wood        | FAIR             | White         |      | 2.24        | Negative        | 0.04 +/- 0.15                    |  |
| 197              | Lower        | D                                 | Office 9           | Wall, Lower             | Wood        | POOR             | Beige         |      | 1.45        | Negative        | 0.01 +/- 0.02                    |  |
| 198              | Lower        | C                                 | Office 9           | Wall, Lower             | Wood        | POOR             | Beige         |      | 1           | Negative        | 0.01 +/- 0.02                    |  |
| 199              | Lower        | Ceiling                           | Office 9           | Ceiling                 | Wood        | POOR             | White         |      | 1.06        | Negative        | 0.01 +/- 0.04                    |  |
| 200              | Lower        | Ceiling                           | Office 9           | Pipe                    | Metal       | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 201              | Lower        | Ceiling                           | Office 9           | Duct                    | Metal       | POOR             | White         |      | 1           | Negative        | 0.01 +/- 0.07                    |  |
| 202              | Lower        | C                                 | Office 9           | Cabinet Out             | Wood        | POOR             | White         |      | 2.17        | Negative        | 0.8 +/- 0.2                      |  |
| 203              | Lower        | C                                 | Office 9           | Cabinet Door            | Wood        | POOR             | White         |      | 1           | Negative        | 0.01 +/- 0.04                    |  |
| 204              | Lower        | C                                 | Office 9           | Cabinet In              | Wood        | POOR             | White         |      | 1.76        | Negative        | 0.6 +/- 0.3                      |  |
| 205              | Lower        | C                                 | Office 9           | Cabinet Shelf           | Wood        | POOR             | White         |      | 1.98        | Negative        | 0.8 +/- 0.2                      |  |
| 206              | Lower        | C                                 | Office 9           | Win. Casing             | Wood        | POOR             | White         |      | 1.2         | Negative        | 0.01 +/- 0.05                    |  |
| <b>207</b>       | <b>Lower</b> | <b>C</b>                          | <b>Office 9</b>    | <b>Win. Sash, ext.</b>  | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>1.59</b> | <b>Positive</b> | <b>1.4 +/- 0.4</b>               |  |
| 208              | Lower        | C                                 | Office 9           | Win. Well/Trough        | Wood        | POOR             | White         |      | 1.17        | Negative        | 0.3 +/- 0.28                     |  |
| 209              | Lower        | C                                 | Office 9           | Win. Jamb               | Wood        | POOR             | White         |      | 1.19        | Negative        | 0.3 +/- 0.07                     |  |
| 210              | Lower        | A                                 | Office 9           | Door Jamb               | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0.02 +/- 0.06                    |  |
| 211              | Lower        | A                                 | Office 9           | Door                    | Wood        | POOR             | Clear / Stain |      | 1.08        | Negative        | 0.03 +/- 0.06                    |  |
| 212              | Lower        | A                                 | Bathroom 10        | Door                    | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0.02 +/- 0.06                    |  |
| 213              | Lower        | A                                 | Bathroom 10        | Door                    | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0.01 +/- 0.02                    |  |
| 214              | Lower        | A                                 | Bathroom 10        | Door Casing             | Wood        | POOR             | Clear / Stain |      | 5.45        | Negative        | 0.08 +/- 0.35                    |  |
| 215              | Lower        | A                                 | Bathroom 10        | Baseboard               | Wood        | POOR             | Green         |      | 1           | Negative        | 0.01 +/- 0.06                    |  |
| 216              | Lower        | A                                 | Bathroom 10        | Wall                    | Drywall     | POOR             | Green         |      | 4.18        | Negative        | 0.02 +/- 0.08                    |  |
| 217              | Lower        | B                                 | Bathroom 10        | Wall                    | Drywall     | POOR             | Green         |      | 1.15        | Negative        | 0 +/- 0.03                       |  |
| 218              | Lower        | C                                 | Bathroom 10        | Wall                    | Drywall     | POOR             | Green         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 219              | Lower        | D                                 | Bathroom 10        | Wall                    | Drywall     | POOR             | Green         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 220              | Lower        | Ceiling                           | Bathroom 10        | Ceiling                 | Drywall     | POOR             | Green         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 221              | Lower        | C                                 | Bathroom 10        | Ledge                   | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0.01 +/- 0.04                    |  |
| 222              | Lower        | C                                 | Bathroom 10        | Win. Apron              | Wood        | POOR             | Clear / Stain |      | 1.35        | Negative        | 0.02 +/- 0.08                    |  |
| 223              | Lower        | C                                 | Bathroom 10        | Win. Sill/Stool         | Wood        | POOR             | Clear / Stain |      | 1.34        | Negative        | 0.03 +/- 0.09                    |  |
| 224              | Lower        | C                                 | Bathroom 10        | Win. Casing             | Wood        | POOR             | Clear / Stain |      | 1.07        | Negative        | 0.02 +/- 0.07                    |  |
| 225              | Lower        | C                                 | Bathroom 10        | Win. Sash               | Wood        | POOR             | Clear / Stain |      | 1.75        | Negative        | 0.04 +/- 0.13                    |  |
| <b>226</b>       | <b>Lower</b> | <b>C</b>                          | <b>Bathroom 10</b> | <b>Win. Sash, ext.</b>  | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>2.9</b>  | <b>Positive</b> | <b>1.8 +/- 0.7</b>               |  |
| <b>227</b>       | <b>Lower</b> | <b>C</b>                          | <b>Bathroom 10</b> | <b>Win. Jamb</b>        | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>2.39</b> | <b>Positive</b> | <b>1.6 +/- 0.6</b>               |  |
| <b>228</b>       | <b>Lower</b> | <b>C</b>                          | <b>Bathroom 10</b> | <b>Win. Well/Trough</b> | <b>Wood</b> | <b>POOR</b>      | <b>White</b>  |      | <b>2.94</b> | <b>Positive</b> | <b>1.4 +/- 0.4</b>               |  |
| 229              | Lower        | C                                 | Bathroom 10        | Cabinet Out             | Wood        | POOR             | White         |      | 1           | Negative        | 0 +/- 0.02                       |  |
| 230              | Lower        | A                                 | Utility Room 11    | Door Jamb               | Wood        | POOR             | Clear / Stain |      | 1           | Negative        | 0.01 +/- 0.05                    |  |
| 231              | Lower        | A                                 | Utility Room 11    | Door                    | Wood        | POOR             | Clear / Stain |      | 5.57        | Negative        | 0.09 +/- 0.39                    |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX A

#### All Paint Samples Taken - In Order Sampled

**Please note: Post 1978 Construction, factory finished and unpainted items were not sampled**

| APPENDIX A   |          |                                   |                 |                 |                  |                  |       |      |             |          |                                  |  |
|--|----------|-----------------------------------|-----------------|-----------------|------------------|------------------|-------|------|-------------|----------|----------------------------------|--|
| All Paint Samples Taken - In Order Sampled   |          |                                   |                 |                 |                  |                  |       |      |             |          |                                  |  |
| Please note: Post 1978 Construction, factory finished and unpainted items were not sampled |          |                                   |                 |                 |                  |                  |       |      |             |          |                                  |  |
| <b>Client</b>  |          | Genesee County Land Bank          |                 |                 |                  |                  |       |      |             |          |                                  |  |
| <b>Survey Location:</b>  |          | 2109 Barbara Dr., Flint, MI 48504 |                 |                 |                  |                  |       |      |             |          |                                  |  |
| <b>Survey Date:</b>  |          | 06/15/11                          |                 |                 |                  |                  |       |      |             |          |                                  |  |
| <b>Inspectors:</b>   |          | Michael Gravlín                   |                 |                 | <b>License #</b> | P-00313          |       |      | <b>Job#</b> | 137262   |                                  |  |
| Sample #   | Floor    | Wall / Side                       | Room and #      | Component       | Substrate        | Visual Condition | Color | Note | Depth Index | Result   | mg/cm <sup>2</sup> +/- Precision |  |
| 232  | Lower    | C                                 | Utility Room 11 | Wall, Lower     | Concrete         | POOR             | White |      | 1.13        | Negative | 0.01 +/- 0.02                    |  |
| 233  | Exterior | A                                 | Ext. House 12   | Win. Casing     | Wood             | POOR             | White |      | 3.07        | Negative | 0.6 +/- 0.4                      |  |
| 234  | Exterior | A                                 | Ext. House 12   | Win. Sill/Stool | Wood             | POOR             | White |      | 1.72        | Negative | 0.12 +/- 0.22                    |  |
| 235  | Exterior | A                                 | Ext. House 12   | Win. Shutters   | Wood             | FAIR             | Brown |      | 2.48        | Negative | 0.6 +/- 0.3                      |  |
| 236  | Exterior | A                                 | Ext. House 12   | Lintel          | Wood             | POOR             | White |      | 3.11        | Negative | 0.5 +/- 0.4                      |  |
| 237  | Exterior | A                                 | Ext. House 12   | Wall            | Wood             | FAIR             | White |      | 3.48        | Negative | 0.5 +/- 0.4                      |  |
| 238  | Exterior | A                                 | Ext. House 12   | Wall            | Wood             | FAIR             | Brown |      | 2.27        | Negative | 0.4 +/- 0.5                      |  |
| 239  | Exterior | A                                 | Ext. House 12   | Door Casing     | Wood             | POOR             | White |      | 3.96        | Negative | 0.6 +/- 0.2                      |  |
| 240  | Exterior | B                                 | Ext. House 12   | Wall            | Transite         | POOR             | White |      | 1.71        | Negative | 0.01 +/- 0.04                    |  |
| 241  | Exterior | D                                 | Ext. House 12   | Wall            | Transite         | POOR             | White |      | 1           | Negative | 0 +/- 0.02                       |  |
| 242  | Exterior | D                                 | Ext. House 12   | Win. Casing     | Wood             | POOR             | Brown |      | 1           | Negative | 0 +/- 0.03                       |  |
| 243  | Exterior | D                                 | Ext. House 12   | Win. Sill/Stool | Wood             | POOR             | Brown |      | 1           | Negative | 0 +/- 0.02                       |  |
| 244  | Exterior | D                                 | Ext. House 12   | Win. Bars       | Metal            | POOR             | White |      | 1           | Negative | 0 +/- 0.02                       |  |
| 245  | Exterior | C                                 | Ext. House 12   | Wall            | Transite         | POOR             | White |      | 1           | Negative | 0 +/- 0.02                       |  |
| 246  | Exterior | C                                 | Ext. House 12   | Railing         | Metal            | POOR             | Black |      | 1.75        | Negative | 0.04 +/- 0.14                    |  |
| 247  | Exterior | C                                 | Ext. House 12   | Ext. Soffit     | Wood             | POOR             | White |      | 1.96        | Negative | 0.6 +/- 0.3                      |  |
| 248  | Exterior | C                                 | Ext. House 12   | Ext. Soffit     | Wood             | POOR             | White |      | 1.95        | Negative | 0.6 +/- 0.3                      |  |
| 249  | Exterior | C                                 | Ext. House 12   | Ext. Soffit     | Wood             | POOR             | White |      | 3.52        | Positive | 1.6 +/- 0.6                      |  |
| 250  | Exterior | D                                 | Ext. House 12   | Ext. Fascia     | Wood             | POOR             | Brown |      | 2.94        | Positive | 1.5 +/- 0.5                      |  |
| 251  |          |                                   | CALIBRATE       |                 |                  |                  |       |      | 1           | Negative | 0.9 +/- 0.1                      |  |
| 252  |          |                                   | CALIBRATE       |                 |                  |                  |       |      | 2.51        | Positive | 1 +/- 0.1                        |  |
| 253  |          |                                   | CALIBRATE       |                 |                  |                  |       |      | 2.58        | Positive | 1 +/- 0.1                        |  |

## ETC - Environmental Services WILCO Environmental

### APPENDIX B

#### Lead Paint ONLY Samples - Ordered by Room

**Please note: Post 1978 Construction, factory finished and unpainted items were not sampled**

| <b>Client</b>           |          | Genesee County Land Bank          |               |                  |                   |                  |       |      |               |          |                                  |
|-------------------------|----------|-----------------------------------|---------------|------------------|-------------------|------------------|-------|------|---------------|----------|----------------------------------|
| <b>Survey Location:</b> |          | 2109 Barbara Dr., Flint, MI 48504 |               |                  |                   |                  |       |      |               |          |                                  |
| <b>Survey Date:</b>     |          | 06/15/11                          |               |                  |                   |                  |       |      |               |          |                                  |
| <b>Inspectors:</b>      |          | Michael Gravlin                   |               |                  | <b>License #:</b> | P-00313          |       |      | <b>Job #:</b> | 137262   |                                  |
| Sample #                | Floor    | Wall / Side                       | Room and #    | Component        | Substrate         | Visual Condition | Color | Note | Depth Index   | Result   | mg/cm <sup>2</sup> +/- Precision |
| 17                      | First    | A                                 | Living Room 1 | Door Jamb        | Wood              | POOR             | White | 0    | 4.76          | Positive | 1.2 +/- 0.2                      |
| 64                      | First    | A                                 | Bedroom 4     | Win. Jamb        | Wood              | POOR             | White | 0    | 1.43          | Positive | 1.4 +/- 0.4                      |
| 65                      | First    | A                                 | Bedroom 4     | Win. Sash, ext.  | Wood              | POOR             | White | 0    | 1.86          | Positive | 1.6 +/- 0.6                      |
| 96                      | Second   | A                                 | Bedroom 5     | Win. Well/Trough | Wood              | POOR             | White | 0    | 3.19          | Positive | 1.4 +/- 0.4                      |
| 97                      | Second   | A                                 | Bedroom 5     | Win. Jamb        | Wood              | POOR             | White | 0    | 4.44          | Positive | 1.4 +/- 0.4                      |
| 98                      | Second   | A                                 | Bedroom 5     | Win. Sash, ext.  | Wood              | POOR             | White | 0    | 3.19          | Positive | 1 +/- 0.1                        |
| 162                     | Main     | C                                 | Kitchen 2     | Door Jamb        | Wood              | POOR             | White | 0    | 3.12          | Positive | 1.4 +/- 0.4                      |
| 180                     | Lower    | A                                 | Family Room 8 | Win. Sash, ext.  | Wood              | POOR             | White | 0    | 1.68          | Positive | 1.2 +/- 0.2                      |
| 207                     | Lower    | C                                 | Office 9      | Win. Sash, ext.  | Wood              | POOR             | White | 0    | 1.59          | Positive | 1.4 +/- 0.4                      |
| 226                     | Lower    | C                                 | Bathroom 10   | Win. Sash, ext.  | Wood              | POOR             | White | 0    | 2.9           | Positive | 1.8 +/- 0.7                      |
| 227                     | Lower    | C                                 | Bathroom 10   | Win. Jamb        | Wood              | POOR             | White | 0    | 2.39          | Positive | 1.6 +/- 0.6                      |
| 228                     | Lower    | C                                 | Bathroom 10   | Win. Well/Trough | Wood              | POOR             | White | 0    | 2.94          | Positive | 1.4 +/- 0.4                      |
| 249                     | Exterior | C                                 | Ext. House 12 | Ext. Soffit      | Wood              | POOR             | White | 0    | 3.52          | Positive | 1.6 +/- 0.6                      |
| 250                     | Exterior | D                                 | Ext. House 12 | Ext. Fascia      | Wood              | POOR             | Brown | 0    | 2.94          | Positive | 1.5 +/- 0.5                      |

**ETC - Environmental Services WILCO Environmental**

**APPENDIX C**

**Potential Future Lead Paint Hazards - Ordered by Room**

**Please note: Post 1978 Construction, factory finished and unpainted items were not sampled**

|                         |              |                                   |                   |                  |                   |                         |              |             |                    |               |  |  |
|-------------------------|--------------|-----------------------------------|-------------------|------------------|-------------------|-------------------------|--------------|-------------|--------------------|---------------|--|--|
| <b>Client</b>           |              | Genesee County Land Bank          |                   |                  |                   |                         |              |             |                    |               |  |  |
| <b>Survey Location:</b> |              | 2109 Barbara Dr., Flint, MI 48504 |                   |                  |                   |                         |              |             |                    |               |  |  |
| <b>Survey Date:</b>     |              | 06/15/11                          |                   |                  |                   |                         |              |             |                    |               |  |  |
| <b>Inspectors:</b>      |              | Michael Gravlin                   |                   |                  | <b>License #:</b> |                         | P-00313      |             | <b>Job #:</b>      |               | 137262                                 |  |
| <b>Sample #</b>         | <b>Floor</b> | <b>Wall / Side</b>                | <b>Room and #</b> | <b>Component</b> | <b>Substrate</b>  | <b>Visual Condition</b> | <b>Color</b> | <b>Note</b> | <b>Depth Index</b> | <b>Result</b> | <b>mg/cm<sup>2</sup> +/- Precision</b> |  |

***This property contains LBP but does not contain any additional tested potential hazard.***

# APPENDIX D

## Maps of Residence

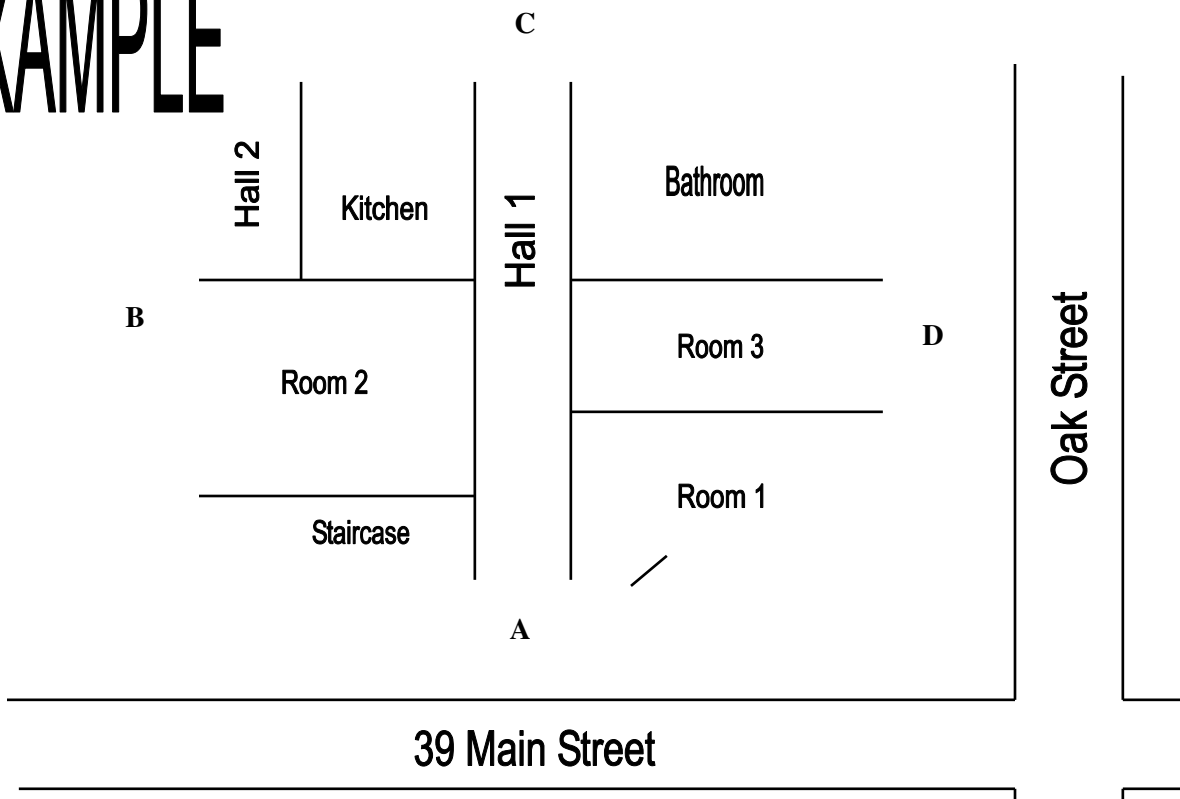
The inspection process uses a standard method of describing where lead paint is located. This is so that all parties involved will have a clear understanding as to what surfaces contain lead.

The outsides of the house will be lettered, starting with the letter A for the side of the house where the house gets its street address from. Starting at the A side, the rest of the house is lettered consecutively, clockwise around the house. Regardless of where the front door is located, the side of the house facing the street where the address is derived from will always be side A.

Inside the house, the process is much the same. The wall of each room that is nearest the A side of the house will be identified as wall A in the report. The wall nearest the B side will be labeled wall B, and so on.

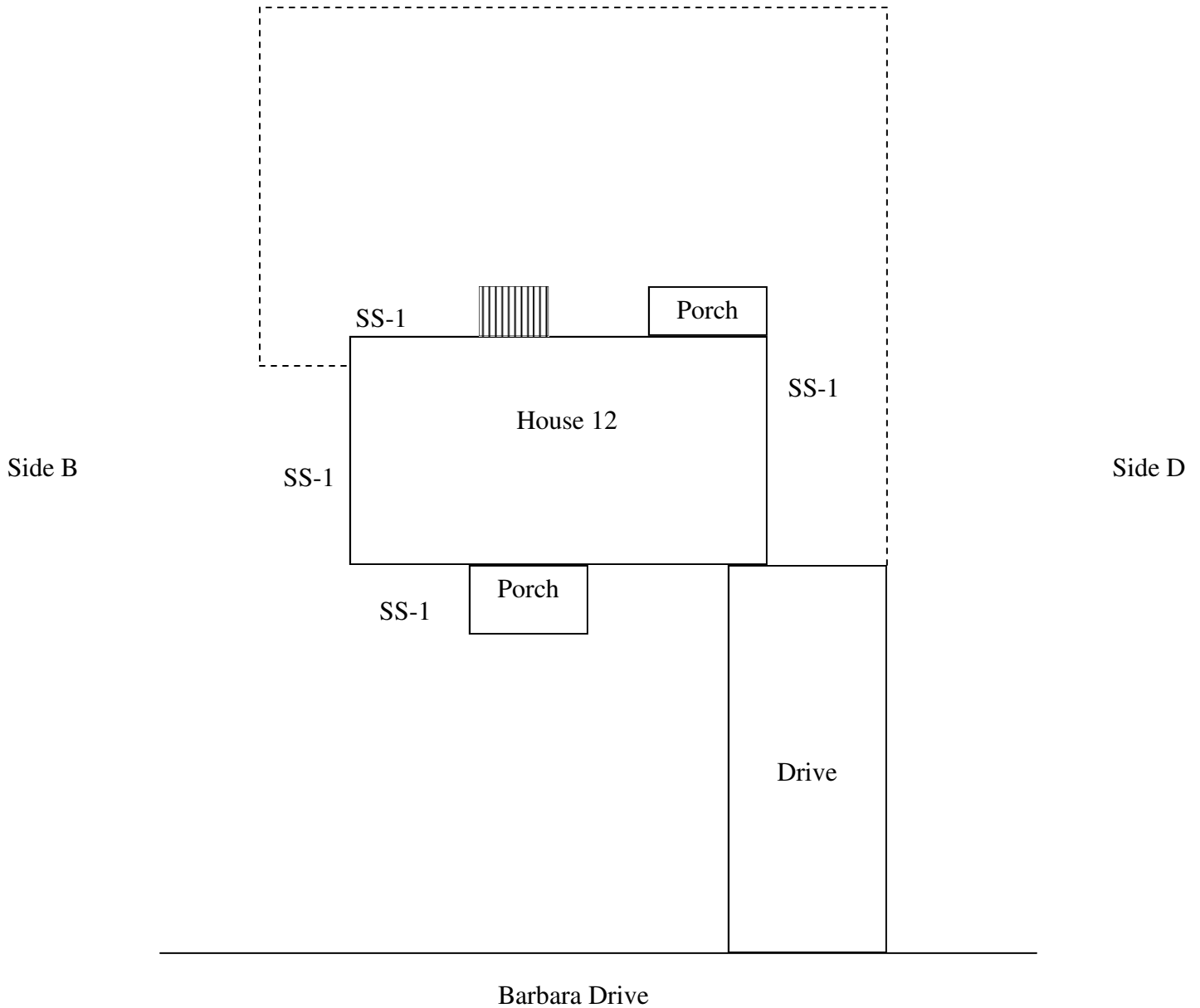
For identifying the rooms and other areas of the interior of the house, a numbering system is used. Most rooms, with the exception of the kitchen and bath could be used for different purposes. When numbers are used, deciphering which room is called what will not be required. See dwelling map and labeling to determine the locations of the tests and hazards.

# EXAMPLE



Side C

2109 Barbara Drive  
Flint, MI 48504  
Year Built: 1940's



- F = Floor Dust Wipe Sample
- S = Windowsill Dust Wipe Sample
- T = Window Trough Dust Wipe Sample
- W = Wood windows
- V = Vinyl windows
- A = Aluminum windows
- M = Metal windows
- GB = Glass block windows

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.

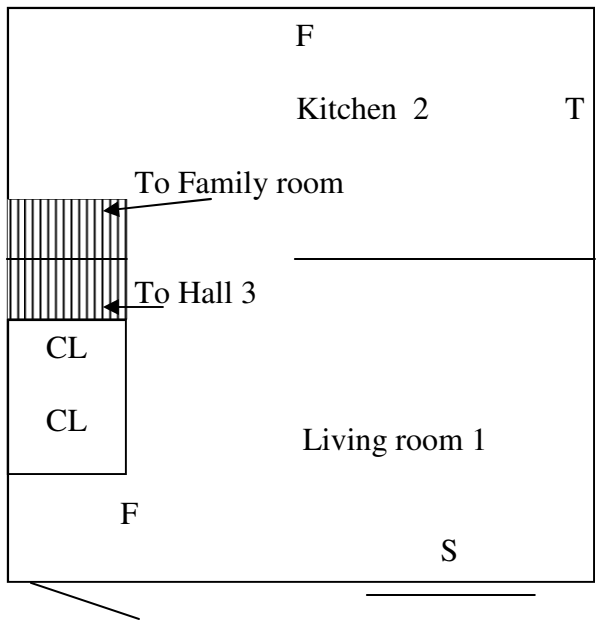
Side A

Genesee County Land Bank  
137262

MAIN LEVEL

Side C

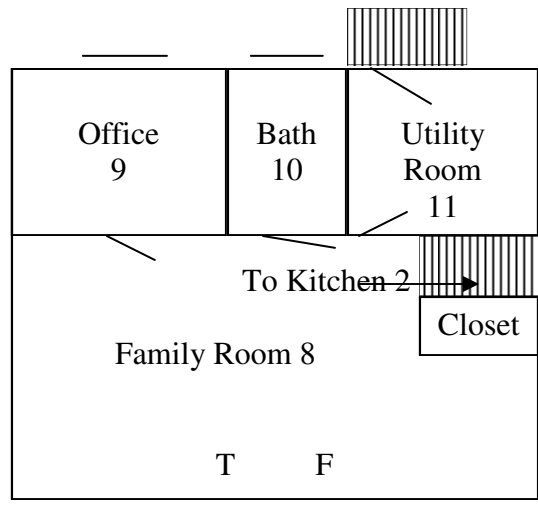
2109 Barbara Drive  
 Flint, MI 48504  
 Year Built: 1940's



Side B

LOWER LEVEL

Side D



- F = Floor Dust Wipe Sample
- S = Windowsill Dust Wipe Sample
- T = Window Trough Dust Wipe Sample
- W = Wood windows
- V = Vinyl windows
- A = Aluminum windows
- M = Metal windows
- GB = Glass block windows

Side A

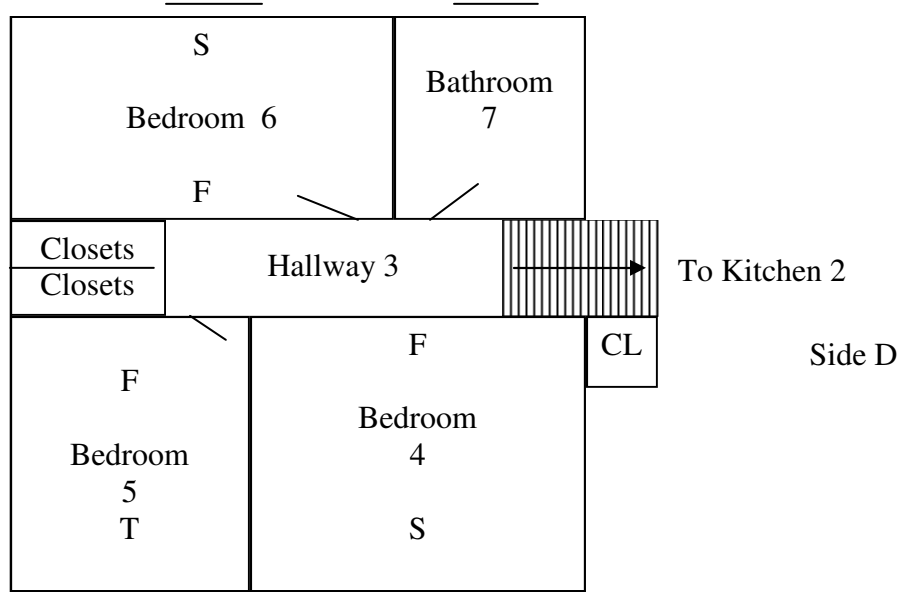
Please Note: This is a rough floor plan only. All items, (doorways, Windows, etc.) may not be included in this illustration. Also, room and component sizes are not drawn to scale.

Side C

2109 Barbara Drive  
Flint, MI 48504  
Year Built: 1940's

UPPER LEVEL

Side B



- F = Floor Dust Wipe Sample
- S = Windowsill Dust Wipe Sample
- T = Window Trough Dust Wipe Sample
- W = Wood windows
- V = Vinyl windows
- A = Aluminum windows
- M = Metal windows
- GB = Glass block windows

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.

Side A

Genesee County Land Bank  
137262

## **APPENDIX E**

### **Resident Questionnaire and Building Condition Form**

## RESIDENT QUESTIONNAIRE

This residence was VACANT at the time of the inspection

|  |                                      |
|--|--------------------------------------|
| <b>Do any children under the age of 18 live in the home?</b>                           | N/A—Vacant                           |
| <b>What are the ages of the children?</b>  | N/A—Vacant                           |
| <b>Do any children under the age of 18 visit regularly in the home?</b>                | N/A—Vacant                           |
| <b>What are the ages of the children?</b>  | N/A—Vacant                           |
| <b>Any known elevated blood lead levels?</b>   | N/A—Vacant                           |
| <b>Location of children (under 7) bedrooms.</b>  | N/A—Vacant                           |
| <b>Where do children eat? Rm. #'s:</b>   | N/A—Vacant                           |
| <b>What room are toys stored (children play)?</b>                                      | N/A—Vacant                           |
| <b>Where do children play outdoors?</b>  | N/A—Vacant                           |
| <b>Which windows are opened most often?</b>  | N/A—Vacant                           |
| <b>Rooms with window air conditioners.</b>   | N/A—Vacant                           |
| <b>Have any renovation work items been completed in the last several years?</b>        | Unknown                              |
| <b>Are you planning any renovations of the home?</b>                                   | Yes—gut/rehab in the summer of 2011  |
| <b>Are you planning any landscaping activities?</b>                                    | Unknown                              |
| <b>Is there evidence of chewed, chipped, or peeling paints?</b>                        | Yes—See XRF results                  |
| <b>Have any previous lead inspections/assessments been completed at this property?</b> | Unknown                              |
| <b>Have any lead hazard control activities been conducted at this address?</b>         | Unknown                              |
| <b>Are you aware of any current lead paint hazards in this home?</b>                   | Unknown                              |
| <b>Has a housing code violation ever been issued for this building?</b>                | Unknown                              |
| <b>Which entrances are used most often?</b>  | N/A—Vacant                           |
| <b>Do you have a vegetable garden?</b>   | N/A—Vacant                           |
| <b>Is there a dog or cat in the home?</b>  | N/A—Vacant                           |
| <b>How often is the house regularly cleaned?</b>                                       | N/A—Vacant                           |
| <b>How often is the house thoroughly cleaned?</b>                                      | N/A—Vacant                           |
| <b>What cleaning methods are used?</b>   | N/A—Vacant                           |
| <b>Do any household members work in a field that might expose them to lead?</b>        | N/A—Vacant                           |
| <b>If yes to 21, where are work clothes stored for cleaning?</b>                       | N/A—Vacant                           |
| <b>Who was interviewed for this section?</b>   | Visual observation by the Technician |

### Building Condition Form

If two or more components have been found to be in poor condition, this house needs more than a Risk Assessment. A complete paint inspection will give information as to potential hazards not identified in a standard Risk Assessment.

| Condition   | Yes      | No       |
|---|----------|----------|
| Roof missing parts of surface covering?   |          | X        |
| Roof has holes or large cracks?   |          | X        |
| Gutters or downspouts broken?   | X        |          |
| Chimney or masonry cracked, with loose or missing components, out of plumb or otherwise deteriorated? |          | X        |
| Exterior or interior walls have large cracks, or damage requiring more than routine painting?         | X        |          |
| Exterior siding missing components?   |          | X        |
| Water stains on interior walls or ceilings?   | X        |          |
| Plaster walls deteriorated?   | X        |          |
| Two or more windows or doors missing, broken or boarded up?   | X        |          |
| Porch or steps have major cracks, missing materials, structural leans, or visibly unsound?            |          | X        |
| Foundation has damage, structural problems, leans or is unsound?                                      |          | X        |
| Are there any debris piles or other "extreme" storage issues around the yard/grounds?                 |          | X        |
| Other conditions not listed—POSSIBLE MOLD GROWTH  | X        |          |
|   |          |          |
| <b>Total</b>  | <b>6</b> | <b>7</b> |

## **APPENDIX F**

### **Re-Evaluation Schedule Chart**

**Standard Reevaluation Schedule  
(See Notes to Table)**

| <b>Schedule</b> | <b>Evaluation Results</b>   | <b>Action Taken</b>  | <b>Reevaluation Frequency</b>   | <b>Visual Survey (by owner or owner's representative)</b>  |
|-----------------|---|--|---------------------------------|--|
| 1               | Combination risk assessment/inspection finds no lead-based dust or soil and no lead-based paint   | None   | None                            | None   |
| 2               | No lead-based paint hazards found during risk assessment conducted before hazard control or at clearance (hazards include dust and soil).                               | None   | 3 years                         | Annually and whenever information indicates a possible problem   |
| 3               | The average of lead-based dust levels on all floors, interior window sills, or window troughs sampled exceeds the applicable standard, but by less than a factor of 10. | A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to, dust removal. This schedule does not include window replacement. | 1 year,<br>2 years              | Same as Schedule 2, except for encapsulants. The first visual survey of encapsulants should be done one month after clearance; the second should be done six months later and annually thereafter. |
|                 |   | B. Treatments specified in section A plus replacement of all windows with lead hazards   | 1 year                          |  |
|                 |   | C. Abatement of all lead-based paint using encapsulation or enclosure  | None                            | Same as Schedule 3 above   |
|                 |   | D. Removal of all lead-based paint   | None                            | None   |
| 4               | The average of lead-based dust levels on all floors, interiors window sills, or window troughs sampled exceeds the applicable standard by a factor of 10 or more        | A. Interim controls and/or hazard abatement (or mixture of the two), including, but not necessarily limited to, dust removal. This schedule does not include window replacement. | 6 months,<br>1 year,<br>2 years | Same as Schedule 3   |
|                 |   | B. Treatments specified in section A plus replacement of all windows with lead hazards   | 6 months<br>2 years             | Same as Schedule 3   |
|                 |   | C. Abatement of all lead-based paint using encapsulation or enclosure  | None                            | Same as Schedule 3   |
|                 |   | D. Removal of all lead-based paint   | None                            | None   |
| 5               | No lead-based dust or lead-based soil hazards identified, but lead-based paint or lead-based paint hazards are found.   | A. Interim controls or mixture of interim controls and abatement (not including window replacement)  | 2 years                         | Same as Schedule 3   |
|                 |   | B. Mixture of interim controls and abatement, including window replacement   | 3 years                         | Same as Schedule 3   |
|                 |   | C. Abatement of all lead-based paint hazards, but not all lead-based paint   | 4 years                         | Same as Schedule 3   |
|                 |   | D. Abatement of all lead-based paint using encapsulation or enclosure  | None                            | Same as Schedule 3   |
|                 |   | E. Removal of all lead-based paint   | None                            |  |
| 6               | Bare lead-based soil exceeds standard, but less than 5.000 $\mu$ g/g.   | Interim controls   | None                            | 3 months to check new ground cover, then annually to identify new bare spots   |
| 7               | Bare lead-based soil greater than or equal to 5.000 $\mu$ g/g.  | Abatement (paving or removal)  | None                            | None for removal, annually to identify new bare spots or deterioration of paving   |

## Standard Reevaluation Schedule (continued)

### Notes to Table:

When more than one schedule applies to a dwelling, use the one with the most stringent reevaluation schedule. Do not use the results of a reevaluation for Schedule 2.

A lead-based paint hazard includes deteriorated lead-based paint and leaded dust and soil above applicable standards.

The frequency of reevaluations and the interval between reevaluations depends on the findings at each reevaluation and the action taken. For example, a dwelling unit or common area falling under Schedule 3.A would be reevaluated one year after clearance. If no lead-based paint hazards are detected at that time, the unit or area would be reevaluated again two years after the first reevaluation. If no hazards are found in the second reevaluation, no further reevaluation is necessary, but annual visual monitoring should continue.

If, on the other hand, the unit or common area fails a reevaluation, a new reevaluation schedule should be determined based on the results of the reevaluation and the action taken. For instance, if the reevaluation finds deteriorated lead-based paint but no lead-contaminated dust, and the action taken is paint stabilization, Schedule 5.A would apply, which indicates that the next reevaluation should be in two years. If, however, the owner of this same property decides to abate all lead-based paint hazards instead of doing only paint stabilization, the property would move to Schedule 5.C, which calls for reevaluation four years from the date of clearance after the hazard abatement.

Following another scenario, suppose a reevaluation of this same dwelling unit or common area finds that the average dust lead levels on sampled window troughs exceeds the applicable standard by a factor of 10 or more, but no other lead-based paint hazards. The owner conducts dust removal. In this case the next reevaluation would be six months after clearance.

The initial evaluation results determine which reevaluation schedule should be applied. An initial evaluation can be a risk assessment, a risk assessment/ inspection combination, or, if the owner has opted to bypass the initial evaluation and proceed directly to controlling suspected hazards, a combination risk assessment/clearance examination. This type of clearance must be conducted by a certified risk assessor, who should determine if all hazards were in fact controlled. The results of the initial clearance dust tests, soil sampling and visual examination should be used to determine the appropriate schedule. If repeated cleaning was necessary to achieve clearance, use the results of the dust tests before repeated cleaning was performed for schedule determination.

If a unit fails two consecutive reevaluations, the reevaluation interval should be reduced by half and the number of reevaluations should be doubled. If deteriorated lead-based paint hazards continue to occur, then the offending components/surfaces should be abated. If dwellings with dust hazards but no paint-related hazards repeatedly fail reevaluations, the exterior source should be identified (if identification efforts fail, regular dust removal efforts are needed).

## **APPENDIX G**

### **Site Photos**



Front of Home (Side A)



Side B



Rear of Home (Side C)



Side D



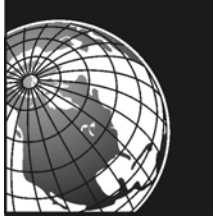
Interior



Interior



Interior



**GLOBAL**  
ENVIRONMENTAL  
ENGINEERING INC.

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**Rehabilitation  
Environmental Inspection Report  
For:  
46-26-156-021  
2109 Barbara Drive  
Flint, Michigan 48504**

NSP-2 June 2011  
Global Project No. F1438D

Prepared by:

GLOBAL ENVIRONMENTAL ENGINEERING INC.  
6140 Rashelle Drive, Suite 1  
Flint, Michigan 48507  
(810) 238-9190  
Fax: (810) 238-9195

Prepared for:

Genesee County Land Bank  
452 S. Saginaw Street – 2<sup>nd</sup> Floor  
Flint, Michigan 48502

**Site Summary**

|           |          |
|-----------|----------|
| <b>HM</b> | <b>A</b> |
|           |          |

# Genesee County Rehabilitation Environmental Inspection Summary

**46-26-156-021  
2109 Barbara Drive  
Flint, Michigan 48504**



|                    |                 |                        |                 |
|--------------------|-----------------|------------------------|-----------------|
| <b>Year Built:</b> | 1962            | <b>Square Footage:</b> | 1,248           |
| <b>Latitude:</b>   | N 43° 04'05.94" | <b>Longitude:</b>      | W 83° 43'45.87" |
| <b>Gas:</b>        | Connected       | <b>Electric:</b>       | Connected       |

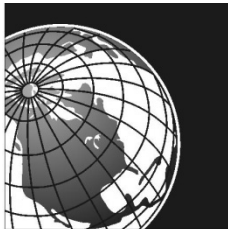
**Comments:** A tri-level wood framed residential structure with brick and transite siding and a basement.

**Inspected By:**

Mark Keyes  
Julie Herrick  
Robert Dunlap

**Inspected On:**

June 6, 2011



**GLOBAL**  
ENVIRONMENTAL  
ENGINEERING INC.

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### Site Summary Legend for Report Cover

A = Friable Asbestos Containing Materials  
HM = Hazardous Materials  
O = Occupied  
ED = Emergency Demolition  
T = Tire

## 1.0 INTRODUCTION

The Genesee County Land Bank retained Global Environmental Engineering Inc. (Global) to complete a pre-renovation environmental inspection for the following property:

### Property:

- 2109 Barbara Drive, Flint, Michigan 48504
- Parcel No: 46-26-156-021

### Description:

The building is a tri-level, wood framed, transite and brick sided residential structure with a basement.

## 2.0 HAZARDOUS MATERIALS INSPECTION

The property was inspected for the presence of household hazardous materials, including but not limited to; paint, solvents, pesticides/fertilizers, fuel, oil, fluorescent light fixture ballasts, fluorescent light bulbs, underground storage tanks (USTs), above ground storage tanks (ASTs), and mercury thermostats. The Global inspectors documented the location of each of the hazardous materials identified and marked the materials with spray paint. At the discretion of the inspectors photographs were also obtained during the inspection of potential and known hazardous materials. Hazardous materials identified are listed on **Table 1**. If obtained, photographs of hazardous materials for the above referenced property are included in **Attachment 1**.

## 3.0 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).

### 3.1 Asbestos Inspection

The property was inspected for the presence of suspected ACMs. Typical building materials that may contain asbestos include drywall, floor tiles, roofing felt and shingles, ceiling tiles, insulation, pipe insulation, and duct insulation. Friable materials are defined as materials that when dry may be crumbled or reduced to powder using hand pressure and thus release asbestos fibers.

For the purpose of this inspection non-friable materials that may become friable during the renovation/demolition (Category II non-friable) were identified and sampled.

### 3.2 Sample Collection

At least one sample of each friable suspected ACM identified during the inspection was collected. A Michigan Accredited Asbestos Inspector collected representative samples of each friable 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 2**.

### **3.3 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 via UPS to International Asbestos Testing Laboratories (IATL) 9000 Commerce Parkway, Suite B, Mt. Laurel, New Jersey. Laboratory results are included in **Attachment 3**.

The results of the laboratory analysis indicated two of the suspect materials sampled, the yellow pebble pattern linoleum and black mastic (2109-5) and the transite siding (2109-8) contains asbestos. A copy of the laboratory results is included as **Attachment 3**.

The yellow pebble patterned linoleum and black mastic located throughout the basement and the transite siding located on the exterior of the house should be properly removed and disposed by a licensed asbestos abatement contractor as part of the renovation project.

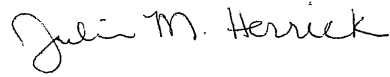
A Notice of Intent to Renovate/Demolish form must be filed with the State of Michigan Department of Consumer Industry at least 10 days before beginning a renovation project or the removal of the material. A form has been included for your future use.

### **3.4 Category I Non-Friable ACM**

Bendable, flexible, and tar based non-friable materials (Category I non-friable) were identified and sampled. For the purpose of this inspection Category I Non-Friable materials that may become friable during the renovation were identified and sampled. A copy of the MDEQ "Notice of Intent to Demolish" form is included as **Attachment 4**.

#### 4.0 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: \_\_\_\_\_  
Julie Herrick, Michigan Certified Asbestos Inspector  
Michigan Accreditation Number A35947



Reviewed by: \_\_\_\_\_  
Mark Keyes, Michigan Certified Asbestos Inspector  
Michigan Accreditation Number A6041

## Tables

**Genesee County Pre-Demolition  
Environmental Inspection Summary**

---

46-26-156-021  
2109 Barbara Drive  
Flint, Michigan 48504

---

**TABLE 1**

**HAZARDOUS MATERIALS**

| <b>Material</b> | <b>Quantity &amp; Units</b> | <b>Location</b> |
|-----------------|-----------------------------|-----------------|
| Battery         | 1 Unit(s)                   | Living Room     |
| Paints          | 3 - 1 Gallon(s)             | Basement        |
| Paint           | 1 - 1 Quart(s)              | Basement        |
|                 |                             |                 |

**TIRE(s) REPORT**

| <b>Material</b>     | <b>Quantity &amp; Units</b> | <b>Location</b> |
|---------------------|-----------------------------|-----------------|
| No Tires Identified |                             |                 |

---

**Genesee County Pre-Demolition  
Environmental Inspection Summary**

46-26-156-021  
2109 Barbara Drive  
Flint, Michigan 48504

**TABLE 2  
SUSPECT FRIABLE ASBESTOS CONTAINING MATERIALS**

| Sample ID     | Material   | Sample Location      | Location                        | Estimated Quantity       | % ACM      | ACM        |  |
|---------------|--|----------------------|---------------------------------|--------------------------|------------|------------|--|
|               |  |                      |                                 |                          |            | Present    |  |
| 2109-1        | Drywall  | Bedroom              | Throughout                      | 4,992 Square feet        | Non Detect | No         |  |
| 2109-2a       | Window Caulk   | Kitchen              | Windows Throughout              | 3 Square feet            | Non Detect | No         |  |
| 2109-2b       | Window Caulk   | Living Room          | Windows Throughout              | Same as above            | Non Detect | No         |  |
| 2109-2c       | Window Caulk   | Living Room          | Windows Throughout              | Same as above            | Non Detect | No         |  |
| 2109-3        | Linoleum 12"   | Bathroom             | Bathroom                        | 18 Square feet           | Non Detect | No         |  |
| 2109-4        | Linoleum 12" (Top Layer)                             | Basement Bathroom    | Basement Bathroom               | 30 Square feet           | Non Detect | No         |  |
| <b>2109-5</b> | <b>Linoleum Yellow Pebble Pattern (Bottom Layer)</b> | <b>Basement</b>      | <b>Throughout Basement</b>      | <b>480 Square feet</b>   | <b>1.8</b> | <b>Yes</b> |  |
| <b>2109-5</b> | <b>Black Mastic</b>                                  | <b>Same as above</b> | <b>Throughout Basement</b>      | <b>480 Square feet</b>   | <b>3.6</b> | <b>Yes</b> |  |
| 2109-5        | Yellow Mastic  | Same as above        | Throughout Basement             | Same as above            | Non Detect | No         |  |
| 2109-6        | Linoleum 12" Brown                                   | Kitchen              | Kitchen                         | 145 Square feet          | Non Detect | No         |  |
| 2109-7        | Roofing Material                                     | House Roof           | House Roof                      | 1,000 Square feet        | Non Detect | No         |  |
| <b>2109-8</b> | <b>Transite Siding</b>                               | <b>Side of House</b> | <b>Exterior Siding of House</b> | <b>1,540 Square feet</b> | <b>25</b>  | <b>Yes</b> |  |

Date Inspected: 06/06/2011

Asbestos samples analyzed by Polarized light Microscopy (PLM). ACM - Asbestos Containing Material

Asbestos containing materials are defined as materials that contain greater than one percent (>1%) asbestos.

**Bolded and Shaded materials contain asbestos and Global recommends the materials be removed prior to renovation/demolition activities.**

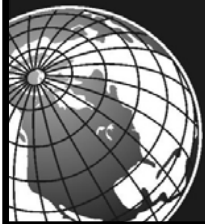
## **Attachment 1**



Battery  
Living Room



Paints  
Basement



**GLOBAL**  
ENVIRONMENTAL  
ENGINEERING INC.

**Genesee County Renovation Environmental Inspection Summary**

Parcel ID: 46-26-156-021

Address: 2109 Barbara Drive , Flint, Michigan

**Pictures of Hazardous  
Materials**

Prepared By: J.M.H.

Taken: 06/06/2011

Page: 1



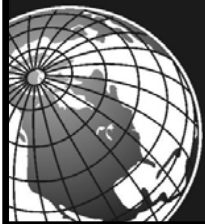
Example of Transite Siding  
Exterior Siding



Example of Transite Siding  
Exterior Siding



Linoleum Yellow Pebble Pattern and Black Mastic  
Throughout Basement



**GLOBAL  
ENVIRONMENTAL  
ENGINEERING INC.**

**Genesee County Renovation Environmental Inspection Summary**

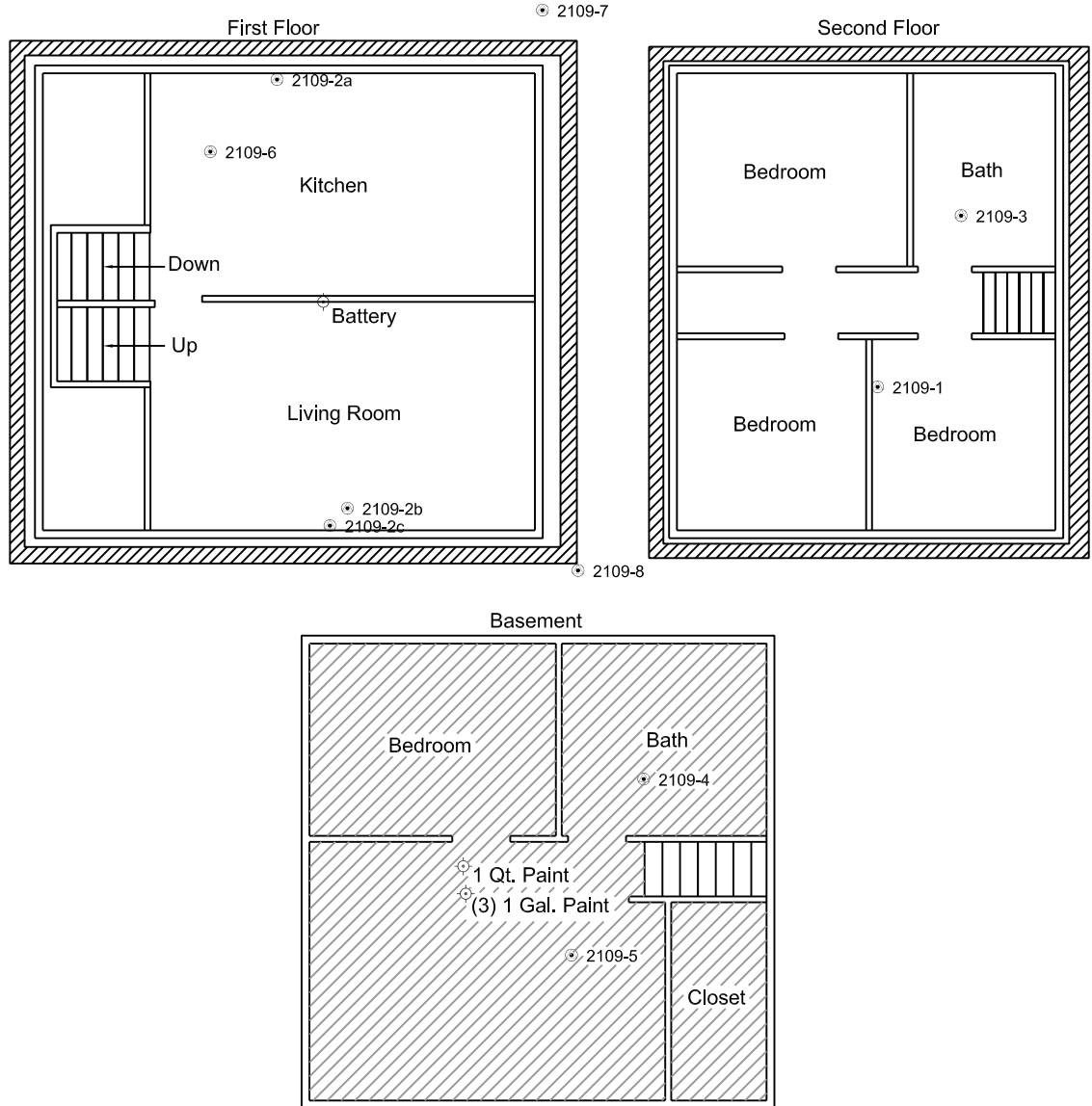
Parcel ID: 46-26-156-021

Address: 2109 Barbara Drive , Flint, Michigan

**Pictures of Asbestos  
Containing Material**

|              |            |
|--------------|------------|
| Prepared By: | J.M.H      |
| Taken:       | 06/06/2011 |
| Page:        | 2          |

## **Attachment 2**



**GLOBAL**  
ENVIRONMENTAL  
ENGINEERING INC.

- ▨ Asbestos Containing Materials
- Tire
- ⊕ Hazardous Material
- ⊙ Asbestos Spl Location

|                                 |             |
|---------------------------------|-------------|
| 2109 Barbara<br>Flint, Michigan |             |
| House Floor Plan                |             |
| Last Modified:                  | Attachment: |
| June 2011                       | 2           |
| Project No.:                    |             |
| F1438                           |             |

## **Attachment 3**



9000 Commerce Parkway, Ste B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

**Client:** Global Environmental Engineering Inc  
 6140 Rashelle Dr; Ste 1  
 Flint MI 48507

**Report Date:** 6/16/2011  
**Report No:** 242523  
**Project:** 2109 Barbara Dr  
**Project No.:** F1438D

## BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 4327504      **Description / Location:** White/Brown Sheetrock  
**Client No.:** 2109-1

| <u>% Asbestos</u> | <u>Type</u>   | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected     | None Detected | 15                                     | Cellulose   | 85                            |

**Lab No.:** 4327505      **Description / Location:** Tan Window Glazing  
**Client No.:** 2109-2A

| <u>% Asbestos</u> | <u>Type</u>   | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected     | None Detected | None Detected                          | None Detected | 100                           |

**Lab No.:** 4327506      **Description / Location:** Tan Window Glazing  
**Client No.:** 2109-2B

| <u>% Asbestos</u> | <u>Type</u>   | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected     | None Detected | None Detected                          | None Detected | 100                           |

**Lab No.:** 4327507      **Description / Location:** Tan Window Glazing  
**Client No.:** 2109-2C

| <u>% Asbestos</u> | <u>Type</u>   | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected     | None Detected | None Detected                          | None Detected | 100                           |

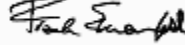
**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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 This report shall not be reproduced except in full, without written approval of the laboratory.*

**Analytical Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** J. Haremza

**Approved By:** 

**Date:** 6/16/2011

Frank E. Ehrenfeld, III  
 Laboratory Director



9000 Commerce Parkway, Ste B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

**Client:** Global Environmental Engineering Inc  
 6140 Rashelle Dr; Ste 1  
 Flint MI 48507

**Report Date:** 6/16/2011  
**Report No:** 242523  
**Project:** 2109 Barbara Dr  
**Project No.:** F1438D

## BULK SAMPLE ANALYSIS SUMMARY

|                           |   |  |               |                               |
|---------------------------|---|--|---------------|-------------------------------|
| <b>Lab No.:</b> 4327508   | <b>Description / Location:</b> Tan Floor Tile |  |               |                               |
| <b>Client No.:</b> 2109-3 |   |  |               |                               |
| <u>% Asbestos</u>         | <u>Type</u>                                   | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   | <u>% Non-Fibrous Material</u> |
| None Detected             | None Detected                                 | None Detected                          | None Detected | 100                           |

|                           |  |  |               |                               |
|---------------------------|--|--|---------------|-------------------------------|
| <b>Lab No.:</b> 4327509   | <b>Description / Location:</b> Tan Floor Tile; 12" |  |               |                               |
| <b>Client No.:</b> 2109-4 |  |  |               |                               |
| <u>% Asbestos</u>         | <u>Type</u>  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   | <u>% Non-Fibrous Material</u> |
| None Detected             | None Detected                                      | None Detected                          | None Detected | 100                           |

|                           |  |  |               |                               |
|---------------------------|--|--|---------------|-------------------------------|
| <b>Lab No.:</b> 4327509   | <b>Description / Location:</b> Yellow Mastic | <b>Layer No.:</b> 2                    |               |                               |
| <b>Client No.:</b> 2109-4 |  |  |               |                               |
| <u>% Asbestos</u>         | <u>Type</u>                                  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   | <u>% Non-Fibrous Material</u> |
| None Detected             | None Detected                                | None Detected                          | None Detected | 100                           |

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:** J. Haremza

**Date:** 6/16/2011



9000 Commerce Parkway, Ste B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

**Client:** Global Environmental Engineering Inc  
 6140 Rashelle Dr; Ste 1  
 Flint MI 48507

**Report Date:** 6/16/2011  
**Report No:** 242523  
**Project:** 2109 Barbara Dr  
**Project No.:** F1438D

## BULK SAMPLE ANALYSIS SUMMARY

|                           |  |  |               |
|---------------------------|--|--|---------------|
| <b>Lab No.:</b> 4327510   | <b>Description / Location:</b> Tan Floor Tile; 12" |  |               |
| <b>Client No.:</b> 2109-5 |  |  |               |
| <u>% Asbestos</u>         | <u>Type</u>  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   |
| PC 1.8                    | Chrysotile   | None Detected                          | None Detected |
|                           |  |  | PC 98.2       |

|                           |   |  |                     |
|---------------------------|---|--|---------------------|
| <b>Lab No.:</b> 4327510   | <b>Description / Location:</b> Black Mastic |  | <b>Layer No.:</b> 2 |
| <b>Client No.:</b> 2109-5 |   |  |                     |
| <u>% Asbestos</u>         | <u>Type</u>                                 | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>         |
| PC 3.6                    | Chrysotile                                  | None Detected                          | None Detected       |
|                           |   |  | PC 96.4             |

|                           |  |  |                     |
|---------------------------|--|--|---------------------|
| <b>Lab No.:</b> 4327510   | <b>Description / Location:</b> Yellow Mastic |  | <b>Layer No.:</b> 3 |
| <b>Client No.:</b> 2109-5 |  |  |                     |
| <u>% Asbestos</u>         | <u>Type</u>                                  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>         |
| None Detected             | None Detected                                | None Detected                          | None Detected       |
|                           |  |  | 100                 |

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116

**Comments:** (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:**           J. Haremza          

**Date:**           6/16/2011



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 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
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# CERTIFICATE OF ANALYSIS

**Client:** Global Environmental Engineering Inc  
 6140 Rashelle Dr; Ste 1  
 Flint MI 48507

**Report Date:** 6/16/2011  
**Report No:** 242523  
**Project:** 2109 Barbara Dr  
**Project No.:** F1438D

## BULK SAMPLE ANALYSIS SUMMARY

|                           |  |  |               |
|---------------------------|--|--|---------------|
| <b>Lab No.:</b> 4327511   | <b>Description / Location:</b> Black Floor Tile; 12" |  |               |
| <b>Client No.:</b> 2109-6 |  |  |               |
| <u>% Asbestos</u>         | <u>Type</u>  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   |
| None Detected             | None Detected  | None Detected                          | None Detected |
|                           |  |  | 100           |

|                           |   |  |                     |
|---------------------------|---|--|---------------------|
| <b>Lab No.:</b> 4327511   | <b>Description / Location:</b> Clear Mastic |  | <b>Layer No.:</b> 2 |
| <b>Client No.:</b> 2109-6 |   |  |                     |
| <u>% Asbestos</u>         | <u>Type</u>                                 | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>         |
| None Detected             | None Detected                               | None Detected                          | None Detected       |
|                           |   |  | 100                 |

|                           |  |  |             |
|---------------------------|--|--|-------------|
| <b>Lab No.:</b> 4327512   | <b>Description / Location:</b> Black Shingle |  |             |
| <b>Client No.:</b> 2109-7 |  |  |             |
| <u>% Asbestos</u>         | <u>Type</u>                                  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected             | None Detected                                | 15                                     | Cellulose   |
|                           |  |  | 85          |

|                           |  |  |               |
|---------------------------|--|--|---------------|
| <b>Lab No.:</b> 4327513   | <b>Description / Location:</b> Grey Transite |  |               |
| <b>Client No.:</b> 2109-8 |  |  |               |
| <u>% Asbestos</u>         | <u>Type</u>                                  | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u>   |
| 25                        | Chrysotile                                   | None Detected                          | None Detected |
|                           |  |  | 75            |

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116

**Comments:**

(PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

**Analysis Performed By:**           J. Haremza          

**Date:**           6/16/2011



# Chain of Custody

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
info@iatl.com  
www.iatl.com

**Client:** Global Environmental Engineering Inc.  
6140 Rashelle Dr. Suite 1  
Flint, MI 48507

**Project Name:** 2109 BARBARA  
**Project No.:** F1438D

**Office Phone:** 810-238-9190  
**Cell Phone:** \_\_\_\_\_  
**FAX / Email 1:** 810-238-9195 jherrick@globaleei.com

**Contact 1:** Julie Herrick  
**Contact 2:** Desiree Bable  
**FAX / Email 2:** dbable@globaleei.com

**Special Instructions:** \_\_\_\_\_

**Matrix:**  
 Air  Soil  Bulk  Other \_\_\_\_\_  
 Water  Paint  Surface Dust / Wipe

**Analysis Method:**

|  |   |  |
|--|---|--|
| <input type="checkbox"/> PCM : NIOSH 7400                  | <input checked="" type="checkbox"/> PLM : Bulk Asbestos EPA 600             | <input type="checkbox"/> TEM : AHERA             |
| <input type="checkbox"/> PCM : OSHA                        | <input type="checkbox"/> PLM : Point Counting 198.1                         | <input type="checkbox"/> TEM : NIOSH 7402        |
| <input type="checkbox"/> PCM : TWA                         | <input type="checkbox"/> PLM : NOB via 198.1 (PLM only)                     | <input type="checkbox"/> TEM : Dust / Wipe       |
| <input type="checkbox"/> AAS : Lead in Air                 | <input type="checkbox"/> If <1% by PLM, to TEM via 198.4 <sup>2</sup>       | <input type="checkbox"/> TEM : Dust / Microvac   |
| <input type="checkbox"/> AAS : Lead in Water               | <input type="checkbox"/> PLM : See page 2 for instructions                  | <input type="checkbox"/> TEM : NOB 198.4         |
| <input type="checkbox"/> AAS : Lead in Paint               | <b>See Page 4 for Mold Specific Log</b>                                     | <input type="checkbox"/> TEM : Bulk Analysis     |
| <input type="checkbox"/> AAS : Lead Dust/Wipe <sup>1</sup> | <input type="checkbox"/> IAQ : I Bioaerosol Fungal Spore Trap <sup>3</sup>  | <input type="checkbox"/> TEM : Potable Water     |
| <input type="checkbox"/> AAS : Lead in Soil                | <input type="checkbox"/> IAQ : II Bioaerosol Fungal Spore Trap <sup>4</sup> | <input type="checkbox"/> TEM : Non-Potable Water |
| <input type="checkbox"/> AAS : TCLP                        | <input type="checkbox"/> IAQ : Tape, Bulk, Misc. Qualitative <sup>3</sup>   | <input type="checkbox"/> TEM : Other _____       |
| <input type="checkbox"/> AAS : Metals ( Cd, Zn, Cr)        | <input type="checkbox"/> IAQ : Tape, Bulk, Misc. Quantitative <sup>3</sup>  | <input type="checkbox"/> Total Dust : NIOSH 0500 |
|  | <input type="checkbox"/> IAQ : Other Culturable ID <sup>2</sup>             | <input type="checkbox"/> Total Dust : NIOSH 0600 |

1- Requires ASTM acceptable material      2- Call to confirm TAT      3- Non-culturable      4- With Non-fungal Microscopic Exam

**Turnaround Time:** Preliminary Results Requested By... \_\_\_\_\_  Verbals  FAX  Email  
date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified.      \*\* Matrix Dependent. Please notify the lab before shipping.

**Sample Numbers:** Client #(s): \_\_\_\_\_ - \_\_\_\_\_ IATL#(s): \_\_\_\_\_ - \_\_\_\_\_ Total: 10  
(start) (end) (start) (end)

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

**Chain of Custody:**

|  |                           |             |
|--|---------------------------|-------------|
| Relinquished (Name / Organization): <u>Julie Herrick</u> | Date: <u>6-6-2011</u>     | Time: _____ |
| Received (Name / IATL): _____                            | Date: _____               | Time: _____ |
| Sample Login (Name / IATL): <u>Mj6113/11</u>             | Date: _____               | Time: _____ |
| Sample Prep (Name / IATL): _____                         | Date: <u>JUN - 9 2011</u> | Time: _____ |
| Analysis (Name(s) / IATL): <u>Cheryl / DJH</u>           | Date: _____               | Time: _____ |
| QA/QC Review (Name / IATL): _____                        | Date: _____               | Time: _____ |
| Archived / Released: _____                               | Date: _____               | Time: _____ |
| QA/QC InterLAB Use: _____                                | Date: _____               | Time: _____ |

**RECEIVED**  
**IATL - By** \_\_\_\_\_



# Chain of Custody

## - Bulk Asbestos Sample Log -

**Client:** Global Environmental Engineering Inc.  
6140 Rashelle Dr. Ste. 1, Flint, MI 48507

**Project Name:** 2109 BARBARA DR.  
**Project No.:** F1438D

**PLM Special Instructions:**

- PLM : Bulk Asbestos Building Materials EPA 600 / R 93-116
- PLM : Point Counting
  - PC : via ELAP 198.1
  - PC : 400 Points
  - PC : 800 Points \*
  - PC : 1600 Points \*
- PLM : Gravimetric Reduction
  - PLM : NOB via 198.1
  - PLM : Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM : Analyze Until Positive (Positive Stop)
  - AUP : by Homogenous Area as Noted
  - AUP : by Material Type as Noted
- PLM : Non-Building Material \*, \*\*(Dust, Wipe, Tape, Soil)
  - Soil or Vermiculite Analysis \*, \*\*
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer

\* Additional charge and turnaround may be required. \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory.

Sampling Date: \_\_\_\_\_

| Client Sample ID: | IATL Sample ID: | Sample Description / Location | Notes                                |
|-------------------|-----------------|-------------------------------|--------------------------------------|
| 2109-1            | 4327504         | DRYWALL                       | COMPOSITE WHERE POSSIBLE<br>AUP<br>↓ |
| 2109-2A           | 4327505         | WINDOW CAULK                  |                                      |
| 2109-2B           | 4327506         | WINDOW CAULK                  |                                      |
| 2109-2C           | 4327507         | WINDOW CAULK                  |                                      |
| 2109-3            | 4327508         | FLOOR TILE                    |                                      |
| 2109-4            | 4327509         | 12" SQ. GRAY FLOOR TILE       |                                      |
| 2109-5            | 4327510         | YELLOW PEBBLE LINOLEUM        |                                      |
| 2109-6            | 4327511         | 12" BROWN FLOOR TILE          |                                      |
| 2109-7            | 4327512         | SHINGLE - ROOFING MATERIAL    |                                      |
| 2109-8            | 4327513         | TRANSITE                      |                                      |
|                   |                 |                               |                                      |
|                   |                 |                               |                                      |
|                   |                 |                               |                                      |
|                   |                 |                               |                                      |

## **Attachment 4**

# NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT (DNRE) AIR QUALITY DIVISION  
 NESHP, 40 CFR Part 61, Subpart M



MICHIGAN DEPARTMENT OF ENERGY, LABOR AND ECONOMIC GROWTH (DELEG), ASBESTOS PROGRAM,  
 P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

### DNRE/DELEG 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 DELEG 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 DNRE and DELEG may apply):

#### DNRE (NESHP) [260 In. 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

#### DELEG (MIOSHA) [Will not accept annual notifications]

Demo, Reno, Encap. (>10 In. 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: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

### 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 NESHP 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, cementitious 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

|  |  |  |  |                                   |                                 |
|--|--|--|--|-----------------------------------|---------------------------------|
|  |  |  |  | <input type="checkbox"/> Ln. Ft.  | <input type="checkbox"/> Ln. M. |
|  |  |  |  | <input type="checkbox"/> Sq. Ft.  | <input type="checkbox"/> Sq. M. |
|  |  |  |  | <input type="checkbox"/> Cu. Ft.* | <input type="checkbox"/> 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)

**NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)**

**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 DELEG):** 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 DELEG)**  
**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 DELEG 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  
 DELEG, CSHD  
 P.O. Box 30671  
 Lansing, MI 48909-8171

517.322.1320 (office), 517.322.1713 (fax)

For **NESHAP Demolitions/Renovations, 40 CFR, Part 61, Subpart M**, mail notifications to the appropriate address below (by county of subject facility): For more info visit <http://www.michigan.gov/deg> click on Air, then Asbestos NESHAP Program.

**All Counties (except Wayne County)**

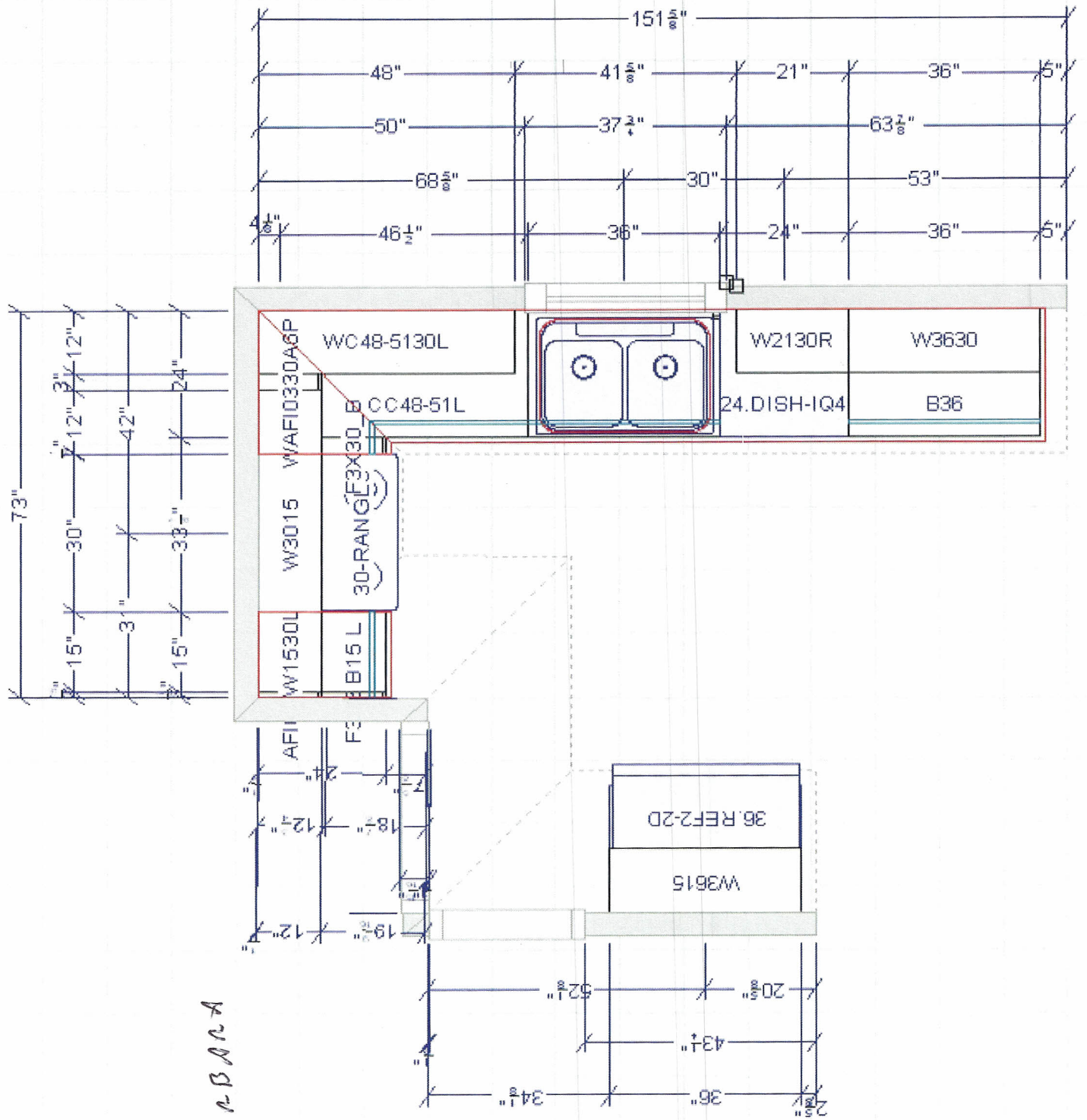
NESHAP Asbestos Program  
 DNRE, AQD  
 P.O. Box 30260  
 Lansing, MI 48909-7760

517.373.7064 (Revision Line)

**Wayne County Only**

NESHAP Asbestos Program  
 Detroit Field Office, DNRE, AQD  
 Cadillac Place, Suite 2-300  
 3058 West Grand Boulevard  
 Detroit, MI 48202

313.456.4686



2109 BARBARA