ADDENDUM # 1

Request for Proposals – 2114 Barbara St. – General Contractors

#LB 11-020

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

"Building a Safer Environment"

COMBINATION LEAD BASED PAINT INSPECTION AND RISK ASSESSMENT SURVEY

FOR THE PROPERTY KNOWN AS:

2114 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 Strett, 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 & 16, 2011

REPORT PREPARED AND SUBMITTED BY:

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

ETC Job#: 137263

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Existing Lead Based Paint Hazards including
Abatement and Interim Control Options

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Survey Location:	2114 Barbara Dr., Flint, MI 48504	
Survey Date:	06/15/11 **Job#:**	
Inspectors:	Michael Gravlin	

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.

****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.***

****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.***

Identified Hazard	Severity	Priority	Abatement Options	Interim Control Options
Hazards throughout Home				
Dust levels in some window troughs / wells within the home were found to have elevated lead levels. Therefore, **all** 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.
Dust levels in some window sills / stools within the home were found to have elevated lead levels. Therefore, **all** window sills 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.
A majority of window components (sash exteriors, troughs and jambs) throughout the home were found to present lead hazards, rather than listing each on a room by room basis, *all* ***deteriorated*** *window components* should be considered lead hazards. (It should be noted that in several instances windows are considered to be hazards due to the generation of lead dust)	High	High	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, 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.
Hazards on Property (Not Home)				
Visible ***paint chips and debris*** is present on the ground	High	High	Remove all visible paint chips and construction debris.	Remove all visible paint chips and construction debris.

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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.

****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.***

****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.***

Identified Hazard	Severity	Priority	Abatement Options	Interim Control Options
Ext. Garage 14				
Walls and trimwork including soffits, fascia, door casings and window casings represent deteriorated lead paint surface hazards	Mediim	Low	1) Wrap walls with Tyvek or equivalent, apply foam insulation board, seal all seams and install a new vinyl or aluminum siding system or 2) wet scrape/sand all surfaces bare to the substrate, make necessary repairs, stabilize surfaces and encapsulate with a Michigan approved, exterior grade encapsulate or 3) strip all surfaces bare to the substrate, make necessary repairs, stabilize surfaces, and repaint.	1) Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint or 2) stabilize all surfaces, install vinyl or aluminum siding and wrap components with aluminum or vinyl
Entry and service door jambs represent deteriorated lead paint **friction/impact** surface hazards	Medium	Low	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	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.
Foyer 7				
Entry door and jamb represent 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.
Family Room 8				
Entry door jamb represents a deteriorated lead paint **friction/impact** surface hazard	Medium	Low	1) Remove and replace with new components or 2) strip all surfaces bare to the substrate, make necessary repairs and recoat.	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.
Utility Room 12				
Lower walls represent deteriorated lead paint surface hazards	Low	Low	1) Enclose with drywall or other suitable wallboard material or 2) wet scrape/sand all surfaces, make necessary repairs, stabilize surfaces and encapsulate with a Michigan approved encapsulant.	1) Wet scrape / sand all surfaces, make necessary repairs, stabilize all surfaces and repaint or 2) stabilize all surfaces, and cover with a suitable wallboard material

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 2114 Barbara Drive in Flint, MI 48504. The site work was performed on June 15 & 16, 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^2, 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:

- Frieze board & fascia (these are painted aluminum—same as the soffits)

- Bathroom 3 window exterior - see XRF results

There may have also been unusual circumstances for this project that may have affected the project. The unusual circumstances existing at 2114 Barbara Drive included:

- Overall condition of the house is poor, house exterior is transite, windows are wood, basement windows are wood, bathroom cabinets are prefabricated, detached garage interior was not tested because it's not painted, garage exterior is wood, windows are wood.

- 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 chose 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^2 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), OHSA, 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-I01. 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 (ug/ft^2):

	Floors	Window Sills	Window Wells/ 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 2114 Barbara Drive residence are below. Any sample above the allowable regulatory limit is in bold.

Sample #	*Room Location*	*Component*	*Area Wiped (in sq. ft.)*	*Lead Concentration (in $^{ug}/_{ft^2}$)*
WS 1	Kitchen 1	Floor	1.00	19.70
WS 2	Kitchen 1 side d	Window sill	0.56	52.60
WS 3	Bathroom 3	Floor	1.00	< 10
WS 4	**Bathroom 3 side a**	**Trough**	**0.75**	**7153.00**
WS 5	Bedroom 4	Floor	1.00	< 10
WS 6	**Bedroom 4 side a**	**Window sill**	**1.44**	**3569.00**
WS 7	Bedroom 5	Floor	1.00	< 10
WS 8	Bedroom 5 side c	Trough	1.11	45.90
WS 9	Living room 6	Floor	1.00	< 10
WS 10	Living room 6 side c	Window sill	0.56	84.10
WS 11	Bedroom 9	Floor	1.00	20.90
WS 12	**Bedroom 9 side d**	**Trough**	**1.11**	**2338.00**

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 2114 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	21.7

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 2114 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 $^{mg}/_{cm^2}$, 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 &	.	Enclosure metal	$5.00 sq. ft.
impact points	$2.50 sq. ft.	Enclosure drywall	$2.50 sq. ft.
Wet scrape and repaint	$2.00 sq. ft.	Door replacement	$750.00 each.
Window replacement	$500 each	Soil abatement	$10.00 sq. ft
Dust removal-clean up	$1.25 sq. ft.	Component replacement	5 times material cost
Siding Installation	$2.75 sq. ft		

VIII.) RECOMMENDATIONS FOR FUTURE OPERATIONS AND MAINTENANCE

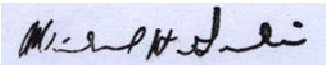
It is very important to note that future disturbance of lead painted surfaces may cause new and additional lead hazards. Homeowners, building managers and landlords are expected to follow "lead safe work practices" any time that a lead painted surface is disturbed. This means making sure very little 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:	2114 Barbara Dr., Flint, MI 48504
Survey Date:	06/15/11

Inspectors:	Michael Gravlin	***License #***	*P-00313*	***Job#***	*136263*

Sample #	Floor	Wall / Side	Room and #	Component	Substrate	Visual Condition	Color	Note	Depth Index	Result	$^{mg}/_{cm^2}$ +/- Precision
1										**Positive**	**7.88 +/- 0**
2			**CALIBRATE**						**2.6**	**Positive**	**1 +/- 0.1**
3			**CALIBRATE**						**2.75**	**Positive**	**1.1 +/- 0.1**
4			**CALIBRATE**						**2.69**	**Positive**	**1.1 +/- 0.1**
5	Upper	C	Kitchen 1	Wall	Wood	POOR	White		6.36	Negative	0.09 +/- 0.4
6	Upper	D	Kitchen 1	Wall	Wood	POOR	White		1.78	Negative	0.02 +/- 0.08
7	Upper	Ceiling	Kitchen 1	Ceiling	Drywall	FAIR	White		1.77	Negative	0.01 +/- 0.05
8	Upper	D	Kitchen 1	Win. Sill/Stool	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
9	Upper	D	Kitchen 1	Win. Sash	Wood	FAIR	Beige		1	Negative	0 +/- 0.03
10	**Upper**	**D**	**Kitchen 1**	**Win. Jamb**	**Wood**	**POOR**	**White**		**1.94**	**Positive**	**1.5 +/- 0.5**
11	Upper	D	Kitchen 1	Win. Sash, ext.	Wood	POOR	White		1.82	Negative	0.7 +/- 0.2
12	Upper	D	Kitchen 1	Win. Sash, ext.	Wood	POOR	White		1.67	Negative	0.7 +/- 0.3
13	Upper	D	Kitchen 1	Win. Well/Trough	Wood	POOR	Beige		1.49	Negative	0.02 +/- 0.09
14	Upper	A	Kitchen 1	Drawer	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
15	Upper	A	Kitchen 1	Cabinet Door	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
16	Upper	A	Kitchen 1	Cabinet Out	Wood	FAIR	White		1	Negative	0 +/- 0.02
17	Upper	A	Kitchen 1	Cabinet In	Wood	FAIR	White		1	Negative	0 +/- 0.02
18	Upper	A	Kitchen 1	Cabinet Shelf	Wood	FAIR	White		1	Negative	0 +/- 0.02
19	Upper	A	Kitchen 1	Shelf Brackets	Wood	FAIR	White		1	Negative	0 +/- 0.02
20	Upper	B	Kitchen 1	Trim	Wood	FAIR	White		1	Negative	0 +/- 0.02
21	Upper	B	Kitchen 1	Ledge	Wood	FAIR	White		6.94	Negative	0.11 +/- 0.29
22	Upper	A	Hallway 2	Wall	Drywall	FAIR	White		4.13	Negative	0.02 +/- 0.09
23	Upper	B	Hallway 2	Wall	Drywall	FAIR	White		2.15	Negative	0.01 +/- 0.02
24	Upper	C	Hallway 2	Wall	Drywall	FAIR	White		2.24	Negative	0.01 +/- 0.04
25	Upper	Ceiling	Hallway 2	Ceiling	Drywall	FAIR	White		1.45	Negative	0.01 +/- 0.03
26	Upper	A	Hallway 2	Wall Register	Metal	POOR	White		1	Negative	0 +/- 0.02
27	Upper	A	Hallway 2	Column	Concrete	FAIR	White		1	Negative	0 +/- 0.02
28	Upper	A	Hallway 2	Railing Cap	Concrete	FAIR	White		1	Negative	0 +/- 0.03
29	Upper	A	Hallway 2	Baluster	Concrete	POOR	White		1	Negative	0 +/- 0.03
30	Upper	A	Hallway 2	Baseboard	Concrete	POOR	White		1	Negative	0 +/- 0.02
31	Upper	C	Hallway 2	Baseboard	Concrete	POOR	White		1	Negative	0 +/- 0.02
32	Upper	C	Hallway 2	Door Casing	Wood	POOR	White		1	Negative	0 +/- 0.03
33	Upper	C	Hallway 2	Clos. Casing	Wood	FAIR	White		1	Negative	0 +/- 0.02
34	Upper	C	Hallway 2	Clos. Door	Wood	FAIR	Brown		1	Negative	0 +/- 0.02
35	Upper	C	Hallway 2	Clos. Jamb	Wood	FAIR	Beige		4.99	Negative	0.4 +/- 0.4
36	Upper	C	Hallway 2	Clos. Jamb	Wood	FAIR	Beige		9.62	Negative	0.3 +/- 0.57
37	Upper	C	Hallway 2	Clos. Shelf	Wood	FAIR	White		1	Negative	0 +/- 0.02

ETC - Environmental Services WILCO Environmental

APPENDIX A
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Client	Genesee County Land Bank
Survey Location:	2114 Barbara Dr., Flint, MI 48504
Survey Date:	06/15/11

Inspectors:			Michael Gravlin		***License #***	*P-00313*			***Job#***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}{}^{2}$ +/- Precision**
38	Upper	C	Hallway 2	Shelf Bracket	Wood	FAIR	White		1	Negative	0 +/- 0.02
39	Upper	C	Hallway 2	Clos. Wall	Drywall	FAIR	White		2.77	Negative	0.01 +/- 0.05
40	Upper	C	Hallway 2	Clos. Ceiling	Drywall	FAIR	White		1	Negative	0 +/- 0.02
41	Upper	Ceiling	Hallway 2	Attic cover casing	Wood	FAIR	White		1.86	Negative	0.11 +/- 0.21
42	Upper	Ceiling	Hallway 2	Attic Cover	Wood	FAIR	White		2.55	Negative	0.13 +/- 0.28
43	Upper	A	Bathroom 3	Wall	Drywall	FAIR	White		5.73	Negative	0.7 +/- 0.3
44	Upper	B	Bathroom 3	Wall	Drywall	FAIR	White		4.05	Negative	0.3 +/- 0.24
45	Upper	C	Bathroom 3	Wall	Drywall	FAIR	White		4.07	Negative	0.5 +/- 0.3
46	Upper	D	Bathroom 3	Wall	Drywall	FAIR	White		3.95	Negative	0.5 +/- 0.3
47	Upper	Ceiling	Bathroom 3	Ceiling	Drywall	FAIR	White		3.88	Negative	0.5 +/- 0.3
48	Upper	A	Bathroom 3	Win. Apron	Wood	FAIR	White		1.09	Negative	0.18 +/- 0.2
49	Upper	A	Bathroom 3	Win. Sill/Stool	Wood	POOR	White		3.21	Negative	0.22 +/- 0.42
50	Upper	A	Bathroom 3	Win. Casing	Wood	POOR	White		3.28	Negative	0.5 +/- 0.4
51	Upper	A	Bathroom 3	Win. Stop	Wood	POOR	White		3.03	Negative	0.3 +/- 0.5
52	Upper	A	Bathroom 3	Win. Sash	Wood	POOR	White		2.17	Negative	0.3 +/- 0.42
53	Upper	B	Bathroom 3	Baseboard	Wood	POOR	White		1.97	Negative	0.26 +/- 0.34
54	Upper	B	Bathroom 3	Door Jamb	Wood	POOR	White		2.44	Negative	0.3 +/- 0.45
55	Upper	B	Bathroom 3	Door Stop	Wood	POOR	White		1	Negative	0.01 +/- 0.03
56	Upper	B	Bathroom 3	Door	Wood	POOR	Brown		10	Negative	-0.07 +/- 0.98
57	Upper	A	Bathroom 3	Bathtub	Metal	POOR	White		2.43	Negative	0.01 +/- 0.9
58	Upper	A	Bedroom 4	Wall	Drywall	POOR	White		1.99	Negative	0.01 +/- 0.05
59	Upper	B	Bedroom 4	Wall	Drywall	FAIR	White		2.76	Negative	0.01 +/- 0.05
60	Upper	C	Bedroom 4	Wall	Drywall	FAIR	White		1.36	Negative	0.01 +/- 0.03
61	Upper	D	Bedroom 4	Wall	Drywall	FAIR	White		5.02	Negative	0.05 +/- 0.17
62	Upper	Ceiling	Bedroom 4	Ceiling	Drywall	FAIR	White		1	Negative	0 +/- 0.02
63	Upper	D	Bedroom 4	Baseboard	Wood	FAIR	White		1	Negative	0 +/- 0.02
64	Upper	D	Bedroom 4	Door Casing	Wood	FAIR	White		1.45	Negative	0.01 +/- 0.05
65	Upper	D	Bedroom 4	Door Jamb	Wood	POOR	White		2.43	Negative	0.02 +/- 0.09
66	Upper	D	Bedroom 4	Door Stop	Wood	POOR	White		4.76	Negative	0.26 +/- 0.58
67	Upper	A	Bedroom 4	Win. Apron	Wood	FAIR	White		2.03	Negative	0.01 +/- 0.04
68	Upper	A	Bedroom 4	Win. Sill/Stool	Wood	POOR	White		3.07	Negative	0.04 +/- 0.19
69	Upper	A	Bedroom 4	Win. Casing	Wood	FAIR	White		3.36	Negative	0.03 +/- 0.15
70	Upper	A	Bedroom 4	Win. Stop	Wood	FAIR	White		1.26	Negative	0.01 +/- 0.06
71	Upper	A	Bedroom 4	Win. Sash	Wood	POOR	White		1.91	Negative	0.02 +/- 0.1
72	**Upper**	**A**	**Bedroom 4**	**Win. Sash, ext.**	**Wood**	**POOR**	**White**		**2.33**	**Positive**	**1.3 +/- 0.2**
73	Upper	A	Bedroom 4	Win. Jamb	Wood	POOR	White		6.58	Negative	0.22 +/- 0.18
74	Upper	A	Bedroom 4	Win. Jamb	Wood	POOR	White		2.5	Negative	0.6 +/- 0.1

ETC - Environmental Services WILCO Environmental

APPENDIX A
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Client	Genesee County Land Bank
Survey Location:	2114 Barbara Dr., Flint, MI 48504
Survey Date:	06/15/11

Inspectors:			Michael Gravlin		***License #***	*P-00313*			***Job#***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}^{2}$ +/- Precision**
75	Upper	C	Bedroom 4	Clos. Casing	Wood	FAIR	White		1.1	Negative	0.01 +/- 0.05
76	Upper	C	Bedroom 4	Shelf Bracket	Wood	FAIR	White		1	Negative	0.01 +/- 0.05
77	Upper	C	Bedroom 4	Clos. Baseboard	Wood	FAIR	White		1.76	Negative	0.02 +/- 0.08
78	Upper	C	Bedroom 4	Clos. Wall	Drywall	FAIR	Beige		1.42	Negative	0.01 +/- 0.04
79	Upper	A	Bedroom 4	Wall	Drywall	FAIR	Beige		1	Negative	0 +/- 0.02
80	Upper	A	Bedroom 5	Wall	Drywall	POOR	Beige		1	Negative	0 +/- 0.02
81	Upper	B	Bedroom 5	Wall	Drywall	POOR	Beige		1	Negative	0 +/- 0.02
82	Upper	C	Bedroom 5	Wall	Drywall	POOR	Beige		1.13	Negative	0 +/- 0.02
83	Upper	D	Bedroom 5	Wall	Drywall	POOR	Beige		1	Negative	0 +/- 0.02
84	Upper	Ceiling	Bedroom 5	Ceiling	Drywall	POOR	Beige		2.35	Negative	0.01 +/- 0.03
85	Upper	C	Bedroom 5	Baseboard	Wood	FAIR	Beige		3.05	Negative	0.06 +/- 0.21
86	Upper	C	Bedroom 5	Win. Apron	Wood	FAIR	Beige		2.83	Negative	0.06 +/- 0.2
87	Upper	C	Bedroom 5	Win. Sill/Stool	Wood	FAIR	Beige		1.9	Negative	0.04 +/- 0.13
88	Upper	C	Bedroom 5	Win. Casing	Wood	FAIR	Beige		2.81	Negative	0.05 +/- 0.18
89	Upper	C	Bedroom 5	Win. Stop	Wood	FAIR	Beige		3.92	Negative	0.05 +/- 0.24
90	Upper	C	Bedroom 5	Win. Sash	Wood	FAIR	Beige		2.87	Negative	0.17 +/- 0.34
91	**Upper**	**C**	**Bedroom 5**	**Win. Sash, ext.**	**Wood**	**POOR**	**White**		**2.2**	**Positive**	**1 +/- 0.1**
92	**Upper**	**C**	**Bedroom 5**	**Win. Well/Trough**	**Wood**	**POOR**	**White**		**2.04**	**Positive**	**2.2 +/- 0.8**
93	Upper	C	Bedroom 5	Win. Jamb	Wood	POOR	White		1.8	Negative	0.7 +/- 0.1
94	Upper	A	Bedroom 5	Clos. Casing	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
95	Upper	A	Bedroom 5	Clos. Jamb	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
96	Upper	A	Bedroom 5	Clos. Baseboard	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
97	Upper	A	Bedroom 5	Clos. Shelf	Wood	FAIR	Beige		1	Negative	0 +/- 0.03
98	Upper	A	Bedroom 5	Shelf Bracket	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
99	Upper	A	Bedroom 5	Shelf Bracket	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
100	Upper	A	Bedroom 5	Clos. Wall	Drywall	FAIR	Beige		1	Negative	0 +/- 0.02
101	Upper	A	Bedroom 5	Clos. Ceiling	Drywall	FAIR	Beige		1	Negative	0 +/- 0.02
102	Upper	A	Bedroom 5	Door Casing	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
103	Upper	A	Bedroom 5	Door Jamb	Wood	FAIR	White		1	Negative	0 +/- 0.02
104	Upper	A	Bedroom 5	Door	Wood	FAIR	Clear / Stain		1.19	Negative	0 +/- 0.02
105	Upper	A	Bedroom 5	Clos. Casing	Wood	FAIR	Clear / Stain		1	Negative	0 +/- 0.02
106	Upper	A	Bedroom 5	Clos. Shelf	Wood	FAIR	Beige		1	Negative	0 +/- 0.03
107	Upper	A	Bedroom 5	Shelf Bracket	Wood	FAIR	Beige		1	Negative	0 +/- 0.02
108	Upper	A	Living Room 6	Wall	Drywall	FAIR	Beige		6.77	Negative	0.05 +/- 0.15
109	Upper	B	Living Room 6	Wall	Drywall	FAIR	Beige		1.16	Negative	0 +/- 0.02
110	Upper	C	Living Room 6	Wall	Drywall	FAIR	Beige		3.27	Negative	0.03 +/- 0.09
111	Upper	D	Living Room 6	Wall	Drywall	FAIR	Beige		3.93	Negative	0.04 +/- 0.09

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Client	Genesee County Land Bank
Survey Location:	2114 Barbara Dr., Flint, MI 48504
Survey Date:	06/15/11

Inspectors:			Michael Gravlin		***License #***	*P-00313*			***Job#***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}^{2}$ +/- Precision**
112	Upper	D	Living Room 6	Ceiling	Drywall	FAIR	Beige		6.54	Negative	0.07 +/- 0.21
113	Upper	D	Living Room 6	Baseboard	Wood	FAIR	Beige		1.77	Negative	0.02 +/- 0.09
114	Upper	D	Living Room 6	Win. Apron	Wood	FAIR	Beige		1	Negative	0.01 +/- 0.04
115	Upper	D	Living Room 6	Win. Sill/Stool	Wood	FAIR	Beige		5.29	Negative	0.11 +/- 0.39
116	Upper	D	Living Room 6	Win. Casing	Wood	FAIR	Beige		1	Negative	0.02 +/- 0.06
117	Upper	D	Living Room 6	Win. Stop	Wood	FAIR	Beige		2.41	Negative	0.06 +/- 0.18
118	Upper	D	Living Room 6	Win. Sash	Wood	POOR	Beige		2.71	Negative	0.07 +/- 0.22
119	**Upper**	**D**	**Living Room 6**	**Win. Sash, ext.**	**Wood**	**POOR**	**White**		**1.98**	**Positive**	**1.3 +/- 0.2**
120	**Upper**	**D**	**Living Room 6**	**Win. Well/Trough**	**Wood**	**POOR**	**White**		**2.08**	**Positive**	**1.3 +/- 0.2**
121	**Upper**	**D**	**Living Room 6**	**Win. Jamb**	**Wood**	**POOR**	**White**		**2.08**	**Positive**	**1.6 +/- 0.5**
122	Upper	A	Living Room 6	Ledge	Wood	POOR	White		1	Negative	0 +/- 0.03
123	Upper	A	Living Room 6	Column	Wood	FAIR	White		1	Negative	0 +/- 0.02
124	Ground	A	Foyer 7	Wall	Drywall	FAIR	White		5.46	Negative	0.06 +/- 0.14
125	Ground	B	Foyer 7	Wall	Drywall	FAIR	White		1.17	Negative	0.01 +/- 0.03
126	Ground	D	Foyer 7	Wall	Drywall	FAIR	White		7.36	Negative	0.07 +/- 0.11
127	Ground	Ceiling	Foyer 7	Ceiling	Drywall	FAIR	White		7.29	Negative	0.12 +/- 0.3
128	Ground	D	Foyer 7	Wall	Wood	FAIR	Beige		1	Negative	0 +/- 0.03
129	Ground	A	Foyer 7	Wall	Wood	FAIR	Beige		1	Negative	0 +/- 0.03
130	Ground	B	Foyer 7	Wall	Wood	POOR	Beige		1.19	Negative	0.01 +/- 0.05
131	Ground	Center	Foyer 7	Railing Cap	Wood	POOR	Beige		1	Negative	0 +/- 0.02
132	Ground	Center	Foyer 7	Newel Post	Wood	POOR	Beige		1	Negative	0.01 +/- 0.04
133	Ground	Center	Foyer 7	Baluster	Wood	POOR	Beige		1	Negative	0 +/- 0.03
134	Ground	D	Foyer 7	Stair Stringer	Wood	POOR	Beige		1.61	Negative	0.01 +/- 0.08
135	Ground	D	Foyer 7	Clos. Casing	Wood	POOR	Beige		1	Negative	0 +/- 0.03
136	Ground	D	Foyer 7	Clos. Door	Metal	POOR	White		1	Negative	0 +/- 0.02
137	Ground	D	Foyer 7	Clos. Shelf	Wood	POOR	White		3.37	Negative	0.3 +/- 0.59
138	Ground	D	Foyer 7	Shelf Bracket	Wood	POOR	White		1.1	Negative	0.02 +/- 0.07
139	Ground	D	Foyer 7	Clos. Wall	Drywall	POOR	White		2.22	Negative	0.04 +/- 0.08
140	Ground	D	Foyer 7	Clos. Ceiling	Drywall	FAIR	White		1.09	Negative	0.02 +/- 0.04
141	Ground	A	Foyer 7	Door Casing	Wood	POOR	Beige		1.21	Negative	0.01 +/- 0.05
142	Ground	A	Foyer 7	Win. Sash	Wood	POOR	Beige		5.77	Negative	0.08 +/- 0.34
143	**Ground**	**A**	**Foyer 7**	**Door Jamb**	**Wood**	**POOR**	**Red**		**2.01**	**Positive**	**1.7 +/- 0.6**
144	Ground	A	Foyer 7	Door Threshold	Wood	POOR	Red		2.07	Negative	0.01 +/- 0.02
145	**Ground**	**A**	**Foyer 7**	**Door**	**Wood**	**POOR**	**White**		**1.93**	**Positive**	**1.4 +/- 0.4**
146	Lower	D	Foyer 7	Wall	Drywall	POOR	White		4.25	Negative	0.07 +/- 0.16
147	Lower	A	Family Room 8	Wall	Drywall	POOR	White		2.24	Negative	0.18 +/- 0.16
148	Lower	B	Family Room 8	Wall	Drywall	POOR	White		1.75	Negative	0.13 +/- 0.13

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Survey Date:	06/15/11

Inspectors:	Michael Gravlin	***License #***	*P-00313*	***Job#***	*136263*

Sample #	Floor	Wall / Side	Room and #	Component	Substrate	Visual Condition	Color	Note	Depth Index	Result	$^{mg}/_{cm}{}^{2}$ +/- Precision
149	Lower	C	Family Room 8	Wall	Drywall	POOR	White		2.84	Negative	0.12 +/- 0.17
150	Lower	D	Family Room 8	Wall	Drywall	POOR	White		3.77	Negative	0.17 +/- 0.39
151	Lower	B	Family Room 8	Wainscoting	Wood	POOR	Brown		4.82	Negative	-0.55 +/- 1.4
152	Lower	B	Family Room 8	Wall, Lower	Wood	POOR	Brown		4.65	Negative	0.17 +/- 0.28
153	Lower	D	Family Room 8	Wainscoting	Wood	POOR	Brown		2.97	Negative	0.08 +/- 0.24
154	Lower	C	Family Room 8	Partition	Wood	POOR	Brown		1.47	Negative	0.01 +/- 0.06
155	Lower	C	Family Room 8	Column	Wood	POOR	Brown		1.49	Negative	0.01 +/- 0.07
156	Lower	C	Family Room 8	Ledge	Wood	POOR	Brown		1	Negative	0 +/- 0.03
157	Lower	Ceiling	Family Room 8	Ceiling	Drywall	POOR	White		6.1	Negative	0.1 +/- 0.22
158	Lower	C	Family Room 8	Chair Rail	Wood	POOR	White		2.95	Negative	0.06 +/- 0.05
159	Lower	C	Family Room 8	Win. Sill/Stool	Wood	POOR	White		1	Negative	0 +/- 0.02
160	Lower	C	Family Room 8	Win. Casing	Wood	POOR	White		4.12	Negative	0.16 +/- 0.41
161	Lower	C	Family Room 8	Win. Stop	Wood	POOR	White		3.68	Negative	0.12 +/- 0.34
162	Lower	C	Family Room 8	Win. Sash	Wood	POOR	White		3.19	Negative	0.14 +/- 0.33
163	Lower	A	Family Room 8	Clos. Door	Wood	POOR	White		1.14	Negative	0.05 +/- 0.12
164	Lower	A	Family Room 8	Clos. Casing	Wood	POOR	White		4.99	Negative	0.13 +/- 0.42
165	Lower	C	Family Room 8	Door Casing	Wood	POOR	White		1	Negative	0 +/- 0.02
166	Lower	C	Family Room 8	Door Stop	Wood	POOR	White		10	Negative	0.5 +/- 0.5
167	**Lower**	**C**	**Family Room 8**	**Door Jamb**	**Wood**	**POOR**	**Red**		**1.72**	**Positive**	**1.4 +/- 0.4**
168	Lower	C	Family Room 8	Entry door	Metal	POOR	White		1	Negative	0 +/- 0.02
169	Lower	A	Family Room 8	Door Casing	Wood	POOR	White		1	Negative	0 +/- 0.02
170	Lower	A	Family Room 8	Door Jamb	Wood	POOR	White		1	Negative	0 +/- 0.02
171	Lower	A	Family Room 8	Door	Wood	POOR	Brown		2.7	Negative	-0.58 +/- 1.03
172	Lower	A	Bedroom 9	Wall	Drywall	POOR	White		5.29	Negative	0.12 +/- 0.21
173	Lower	B	Bedroom 9	Wall	Wood	POOR	Green		1	Negative	0.02 +/- 0.06
174	Lower	C	Bedroom 9	Wall	Drywall	POOR	White		6.22	Negative	0.08 +/- 0.22
175	Lower	D	Bedroom 9	Wall	Drywall	POOR	White		1	Negative	0.02 +/- 0.04
176	Lower	D	Bedroom 9	Wainscoting	Wood	POOR	Green		1	Negative	0 +/- 0.02
177	Lower	A	Bedroom 9	Wainscoting	Wood	POOR	Green		1	Negative	0 +/- 0.03
178	Lower	A	Bedroom 9	Clos. Wall	Wood	POOR	Green		1	Negative	0 +/- 0.03
179	Lower	A	Bedroom 9	Clos. Door	Wood	POOR	Green		1.76	Negative	0.02 +/- 0.1
180	Lower	A	Bedroom 9	Clos. Shelf	Wood	POOR	White		3.69	Negative	0.15 +/- 0.38
181	Lower	A	Bedroom 9	Clos. Wall	Wood	POOR	White		2.56	Negative	0.09 +/- 0.23
182	Lower	A	Bedroom 9	Clos. Wall	Drywall	POOR	White		1.33	Negative	0.05 +/- 0.07
183	Lower	A	Bedroom 9	Clos. Wall	Cinder Block	POOR	White		1.37	Negative	0.04 +/- 0.08
184	Lower	B	Bedroom 9	Clos. Casing	Cinder Block	POOR	Green		1.25	Negative	0.08 +/- 0.15
185	Lower	B	Bedroom 9	Door Casing	Wood	POOR	Green		1	Negative	0.07 +/- 0.12

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Survey Date:	06/15/11

Inspectors:			Michael Gravlin		***License #***	*P-00313*			***Job#***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}^{2}$ +/- Precision**
186	Lower	B	Bedroom 9	Door Jamb	Wood	POOR	Brown		1	Negative	0 +/- 0.03
187	Lower	B	Bedroom 9	Door	Wood	POOR	Clear / Stain		1	Negative	0 +/- 0.02
188	Lower	D	Bedroom 9	Ledge	Wood	POOR	Green		1.42	Negative	0.07 +/- 0.15
189	Lower	D	Bedroom 9	Chair Rail	Wood	POOR	White		1.23	Negative	0.04 +/- 0.1
190	Lower	D	Bedroom 9	Win. Sill/Stool	Wood	POOR	White		2.65	Negative	0.09 +/- 0.24
191	Lower	D	Bedroom 9	Win. Casing	Wood	POOR	White		2.84	Negative	0.07 +/- 0.23
192	Lower	D	Bedroom 9	Win. Casing	Wood	POOR	White		4.65	Negative	0.09 +/- 0.36
193	Lower	D	Bedroom 9	Win. Sash	Wood	POOR	White		1.54	Negative	0.04 +/- 0.12
194	**Lower**	**D**	**Bedroom 9**	**Win. Sash, ext.**	**Wood**	**POOR**	**White**		**2.81**	**Positive**	**1.9 +/- 0.8**
195	**Lower**	**D**	**Bedroom 9**	**Win. Well/Trough**	**Wood**	**POOR**	**White**		**3.12**	**Positive**	**2.2 +/- 1**
196	**Lower**	**D**	**Bedroom 9**	**Win. Jamb**	**Wood**	**POOR**	**White**		**2.17**	**Positive**	**3.3 +/- 2.3**
197	Lower	Ceiling	Bedroom 9	Ceiling	Drywall	POOR	White		1.29	Negative	0.01 +/- 0.02
198	Lower	Ceiling	Bedroom 9	Duct	Metal	POOR	White		1.03	Negative	0.02 +/- 0.11
199	Lower	Ceiling	Hallway 10	Duct	Metal	POOR	White		4.09	Negative	0.15 +/- 0.55
200	Lower	Ceiling	Hallway 10	Ceiling	Drywall	POOR	White		1.95	Negative	0.06 +/- 0.1
201	Lower	C	Hallway 10	Wall	Drywall	POOR	White		3.57	Negative	0.15 +/- 0.19
202	Lower	A	Hallway 10	Wall	Drywall	POOR	White		1.12	Negative	0.03 +/- 0.04
203	Lower	B	Hallway 10	Wainscoting	Drywall	POOR	Beige		1	Negative	0 +/- 0.04
204	Lower	A	Hallway 10	Clos. Casing	Wood	POOR	Beige		2.16	Negative	0.08 +/- 0.2
205	Lower	A	Hallway 10	Clos. Jamb	Wood	POOR	Beige		1.34	Negative	0.04 +/- 0.1
206	Lower	A	Hallway 10	Clos. Door	Wood	POOR	Brown		1	Negative	0 +/- 0.02
207	Lower	A	Hallway 10	Clos. Wall	Drywall	POOR	White		2.56	Negative	0.04 +/- 0.08
208	Lower	A	Hallway 10	Clos. Ceiling	Drywall	POOR	White		3.25	Negative	0.03 +/- 0.1
209	Lower	B	Bathroom 11	Door Casing	Wood	FAIR	White		4.49	Negative	0.4 +/- 0.4
210	Lower	B	Bathroom 11	Door Jamb	Wood	FAIR	White		4.65	Negative	0.5 +/- 0.5
211	Lower	B	Bathroom 11	Door	Wood	POOR	Brown		1	Negative	0 +/- 0.02
212	Lower	A	Utility Room 12	Wall	Drywall	FAIR	White		2.06	Negative	0.01 +/- 0.04
213	Lower	B	Utility Room 12	Wall	Drywall	FAIR	White		1	Negative	0 +/- 0.02
214	Lower	C	Utility Room 12	Wall	Drywall	FAIR	White		5.36	Negative	0.15 +/- 0.28
215	Lower	D	Utility Room 12	Wall	Drywall	POOR	White		3.5	Negative	0.3 +/- 0.25
216	Lower	Ceiling	Utility Room 12	Ceiling	Drywall	POOR	White		2.09	Negative	0.02 +/- 0.05
217	Lower	Ceiling	Utility Room 12	Pipe	Metal	POOR	White		1	Negative	0.01 +/- 0.03
218	Lower	A	Utility Room 12	Cabinet Out	Metal	POOR	White		1	Negative	0 +/- 0.02
219	**Lower**	**A**	**Utility Room 12**	**Wall, Lower**	**Cinder Block**	**POOR**	**White**		**3.2**	**Positive**	**1.9 +/- 0.9**
220	Lower	A	Utility Room 12	Chair Rail	Wood	POOR	White		1	Negative	0 +/- 0.02
221	Lower	A	Utility Room 12	Win. Apron	Wood	POOR	White		2.52	Negative	0.03 +/- 0.14
222	Lower	A	Utility Room 12	Win. Sill/Stool	Wood	POOR	White		1	Negative	0.01 +/- 0.04

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:	2114 Barbara Dr., Flint, MI 48504
Survey Date:	06/15/11

Inspectors:			Michael Gravlin		***License #***	*P-00313*			***Job#***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}^{2}$ +/- Precision**
223	Lower	A	Utility Room 12	Win. Casing	Wood	POOR	White		4.73	Negative	0.06 +/- 0.26
224	Lower	A	Utility Room 12	Win. Sash	Wood	POOR	White		1	Negative	0.01 +/- 0.04
225	**Lower**	**A**	**Utility Room 12**	**Win. Sash, ext.**	**Wood**	**POOR**	**White**		**1.61**	**Positive**	**1.5 +/- 0.5**
226	**Lower**	**A**	**Utility Room 12**	**Win. Well/Trough**	**Wood**	**POOR**	**White**		**2.01**	**Positive**	**1.4 +/- 0.4**
227	Lower	A	Utility Room 12	Win. Jamb	Wood	POOR	White		2.67	Negative	0.03 +/- 0.15
228	Lower	B	Utility Room 12	Wainscoting	Wood	POOR	Brown		4.62	Negative	0.3 +/- 0.62
229	Lower	B	Utility Room 12	Ledge	Wood	POOR	Brown		2.86	Negative	0.15 +/- 0.32
230	Lower	B	Utility Room 12	Baseboard	Wood	POOR	Brown		1	Negative	0.02 +/- 0.07
231	Ground	B	Foyer 7	Plmb. Access	Wood	POOR	Beige		1	Negative	0 +/- 0.02
232	Exterior	A	Ext. House 13	Wall	Transite	POOR	White		1	Negative	0 +/- 0.02
233	**Exterior**	**A**	**Ext. House 13**	**Door Casing (buried)**	**Metal**	**FAIR**	**Red**		**10**	**Positive**	**1.6 +/- 0.5**
234	Exterior	A	Ext. House 13	Door Storm	Metal	FAIR	Black		1	Negative	0.01 +/- 0.03
235	Exterior	A	Ext. House 13	Door Threshold	Concrete	POOR	Red		3.24	Negative	0.02 +/- 0.05
236	Exterior	A	Ext. House 13	Porch Floor	Concrete	POOR	Red		1.41	Negative	0.01 +/- 0.03
237	Exterior	A	Ext. House 13	Mailbox	Metal	POOR	Black		1.9	Negative	0.02 +/- 0.1
238	Exterior	A	Ext. House 13	Railing	Metal	POOR	Black		1	Negative	0 +/- 0.02
239	Exterior	A	Ext. House 13	Ianter	Wood	POOR	Red		1	Negative	0 +/- 0.02
240	Exterior	A	Ext. House 13	Win. Casing	Metal	FAIR	Red		5.37	Negative	0.07 +/- 0.31
241	Exterior	A	Ext. House 13	Win. Sill/Stool	Metal	FAIR	Red		7.22	Negative	0.23 +/- 0.12
242	Exterior	B	Ext. House 13	Wall	Transite	FAIR	White		1	Negative	0 +/- 0.02
243	Exterior	D	Ext. House 13	Wall	Transite	FAIR	White		2.05	Negative	0.01 +/- 0.05
244	Exterior	D	Ext. House 13	Win. Bars	Metal	FAIR	Black		1.03	Negative	0 +/- 0.03
245	Exterior	C	Ext. House 13	Wall	Transite	FAIR	White		1.79	Negative	0.01 +/- 0.03
246	Exterior	C	Ext. House 13	Railing	Wood	POOR	Red		1	Negative	0.01 +/- 0.05
247	Exterior	C	Ext. House 13	Ext. Foundation	Cinder Block	POOR	Red		2.85	Negative	0.02 +/- 0.02
248	Exterior	C	Ext. House 13	Ext. Foundation	Cinder Block	POOR	Red		2.24	Negative	0.03 +/- 0.05
249	Exterior	C	Ext. House 13	Stair Tread	Cinder Block	POOR	Red		2.03	Negative	0.02 +/- 0.03
250	**Exterior**	**A**	**Ext. Garage 14**	**Wall**	**Wood**	**POOR**	**White**		**1.81**	**Positive**	**1.2 +/- 0.2**
251	Exterior	D	Ext. Garage 14	Wall	Wood	POOR	White		1.45	Negative	0.7 +/- 0.3
252	**Exterior**	**A**	**Ext. Garage 14**	**Door Casing**	**Wood**	**POOR**	**Red**		**1.92**	**Positive**	**1.7 +/- 0.6**
253	**Exterior**	**A**	**Ext. Garage 14**	**Door Casing**	**Wood**	**POOR**	**Red**		**1.83**	**Positive**	**1.5 +/- 0.4**
254	**Exterior**	**A**	**Ext. Garage 14**	**Door Jamb**	**Wood**	**POOR**	**Red**		**1.87**	**Positive**	**1.7 +/- 0.6**
255	**Exterior**	**A**	**Ext. Garage 14**	**Ext. Soffit**	**Wood**	**POOR**	**Red**		**1.74**	**Positive**	**1.7 +/- 0.6**
256	**Exterior**	**A**	**Ext. Garage 14**	**Ext. Fascia**	**Wood**	**POOR**	**Red**		**1.69**	**Positive**	**1.9 +/- 0.6**
257	**Exterior**	**A**	**Ext. Garage 14**	**Column**	**Wood**	**POOR**	**White**		**1.94**	**Positive**	**1.4 +/- 0.4**
258	Exterior	A	Ext. Garage 14	Ext. Gutter	Metal	POOR	White		2.51	Negative	0 +/- 0.84
259	**Exterior**	**B**	**Ext. Garage 14**	**Wall**	**Wood**	**POOR**	**White**		**2.6**	**Positive**	**1.3 +/- 0.3**

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:			2114 Barbara Dr., Flint, MI 48504								
Survey Date:			06/15/11								
Inspectors:			Michael Gravlin		***License #***	*P-00313*			***Job#***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}^{2}$ +/- Precision**
260	**Exterior**	**B**	**Ext. Garage 14**	**Door Jamb**	**Wood**	**POOR**	**White**		**2.11**	**Positive**	**1.4 +/- 0.4**
261	**Exterior**	**B**	**Ext. Garage 14**	**Door Jamb**	**Wood**	**POOR**	**White**		**1.42**	**Positive**	**1.2 +/- 0.2**
262	Exterior	B	Ext. Garage 14	Entry door	Wood	POOR	White		1	Negative	0 +/- 0.03
263	**Exterior**	**B**	**Ext. Garage 14**	**Win. Casing**	**Wood**	**POOR**	**White**		**3.07**	**Positive**	**1.7 +/- 0.7**
264	**Exterior**	**C**	**Ext. Garage 14**	**Wall**	**Wood**	**POOR**	**White**		**3.13**	**Positive**	**2.2 +/- 0.9**
265	Exterior	C	Int. Garage 15	Wall	Wood	POOR	Beige		2.08	Negative	-0.19 +/- 1.02
266	Exterior	D	Int. Garage 15	Wall	Wood	POOR	Beige		1	Negative	0 +/- 0.03
267	Exterior	D	Int. Garage 15	Cabinet Out	Wood	POOR	Beige		1	Negative	0 +/- 0.02
268	**Exterior**	**A**	**Ext. House 15**	**Ext. Soffit (buried)**	**Metal**	**FAIR**	**Red**		**10**	**Positive**	**1.8 +/- 0.7**
269	Exterior	A	Grounds 16	Light Fixture	Metal	POOR	Black		1	Negative	0 +/- 0.02
270			CALIBRATE						1.01	Negative	0.9 +/- 0.1
271			CALIBRATE						2.36	Negative	0.9 +/- 0.1
272			**CALIBRATE**						**2.71**	**Positive**	**1.1 +/- 0.1**
273	**Upper**	**A**	**Bathroom 3**	**Win. Sash, ext.**	**Wood**	**POOR**	**White**			**Positive**	**Presumed +/-**
274	**Upper**	**A**	**Bedroom 3**	**Win. Well/Trough**	**Wood**	**POOR**	**White**			**Positive**	**Presumed +/-**
275	**Upper**	**A**	**Bedroom 3**	**Win. Jamb**	**Wood**	**POOR**	**White**			**Positive**	**Presumed +/-**

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

Client			Genesee County Land Bank								
Survey Location:			2114 Barbara Dr., Flint, MI 48504								
Survey Date:			06/15/11								
Inspectors:			Michael Gravlin		***License #:***	*P-00313*			***Job #:***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm}{}^{2}$ +/- Precision**
10	Upper	D	Kitchen 1	Win. Jamb	Wood	POOR	White	0	1.94	Positive	1.5 +/- 0.5
72	Upper	A	Bedroom 4	Win. Sash, ext.	Wood	POOR	White	0	2.33	Positive	1.3 +/- 0.2
91	Upper	C	Bedroom 5	Win. Sash, ext.	Wood	POOR	White	0	2.2	Positive	1 +/- 0.1
92	Upper	C	Bedroom 5	Win. Well/Trough	Wood	POOR	White	0	2.04	Positive	2.2 +/- 0.8
119	Upper	D	Living Room 6	Win. Sash, ext.	Wood	POOR	White	0	1.98	Positive	1.3 +/- 0.2
120	Upper	D	Living Room 6	Win. Well/Trough	Wood	POOR	White	0	2.08	Positive	1.3 +/- 0.2
121	Upper	D	Living Room 6	Win. Jamb	Wood	POOR	White	0	2.08	Positive	1.6 +/- 0.5
143	Ground	A	Foyer 7	Door Jamb	Wood	POOR	Red	0	2.01	Positive	1.7 +/- 0.6
145	Ground	A	Foyer 7	Door	Wood	POOR	White	0	1.93	Positive	1.4 +/- 0.4
167	Lower	C	Family Room 8	Door Jamb	Wood	POOR	Red	0	1.72	Positive	1.4 +/- 0.4
194	Lower	D	Bedroom 9	Win. Sash, ext.	Wood	POOR	White	0	2.81	Positive	1.9 +/- 0.8
195	Lower	D	Bedroom 9	Win. Well/Trough	Wood	POOR	White	0	3.12	Positive	2.2 +/- 1
196	Lower	D	Bedroom 9	Win. Jamb	Wood	POOR	White	0	2.17	Positive	3.3 +/- 2.3
219	Lower	A	Utility Room 12	Wall, Lower	Cinder Block	POOR	White	0	3.2	Positive	1.9 +/- 0.9
225	Lower	A	Utility Room 12	Win. Sash, ext.	Wood	POOR	White	0	1.61	Positive	1.5 +/- 0.5
226	Lower	A	Utility Room 12	Win. Well/Trough	Wood	POOR	White	0	2.01	Positive	1.4 +/- 0.4
233	Exterior	A	Ext. House 13	Door Casing (buried)	Metal	FAIR	Red	0	10	Positive	1.6 +/- 0.5
250	Exterior	A	Ext. Garage 14	Wall	Wood	POOR	White	0	1.81	Positive	1.2 +/- 0.2
252	Exterior	A	Ext. Garage 14	Door Casing	Wood	POOR	Red	0	1.92	Positive	1.7 +/- 0.6
253	Exterior	A	Ext. Garage 14	Door Casing	Wood	POOR	Red	0	1.83	Positive	1.5 +/- 0.4
254	Exterior	A	Ext. Garage 14	Door Jamb	Wood	POOR	Red	0	1.87	Positive	1.7 +/- 0.6
255	Exterior	A	Ext. Garage 14	Ext. Soffit	Wood	POOR	Red	0	1.74	Positive	1.7 +/- 0.6
256	Exterior	A	Ext. Garage 14	Ext. Fascia	Wood	POOR	Red	0	1.69	Positive	1.9 +/- 0.6
257	Exterior	A	Ext. Garage 14	Column	Wood	POOR	White	0	1.94	Positive	1.4 +/- 0.4
259	Exterior	B	Ext. Garage 14	Wall	Wood	POOR	White	0	2.6	Positive	1.3 +/- 0.3
260	Exterior	B	Ext. Garage 14	Door Jamb	Wood	POOR	White	0	2.11	Positive	1.4 +/- 0.4
261	Exterior	B	Ext. Garage 14	Door Jamb	Wood	POOR	White	0	1.42	Positive	1.2 +/- 0.2
263	Exterior	B	Ext. Garage 14	Win. Casing	Wood	POOR	White	0	3.07	Positive	1.7 +/- 0.7
264	Exterior	C	Ext. Garage 14	Wall	Wood	POOR	White	0	3.13	Positive	2.2 +/- 0.9
268	Exterior	A	Ext. House 15	Ext. Soffit (buried)	Metal	FAIR	Red	0	10	Positive	1.8 +/- 0.7
273	Upper	A	Bathroom 3	Win. Sash, ext.	Wood	POOR	White	0		Positive	Presumed +/-
274	Upper	A	Bedroom 3	Win. Well/Trough	Wood	POOR	White	0		Positive	Presumed +/-
275	Upper	A	Bedroom 3	Win. Jamb	Wood	POOR	White	0		Positive	Presumed +/-

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APPENDIX C
Potential Future Lead Paint Hazards - Ordered by Room
Please note: Post 1978 Construction, factory finished and unpainted items were not sampled

Client			Genesee County Land Bank								
Survey Location:			2114 Barbara Dr., Flint, MI 48504								
Survey Date:			06/15/11								
Inspectors:			Michael Gravlin		***License #:***	*P-00313*			***Job #:***	*136263*	
Sample #	**Floor**	**Wall / Side**	**Room and #**	**Component**	**Substrate**	**Visual Condition**	**Color**	**Note**	**Depth Index**	**Result**	**$^{mg}/_{cm^2}$ +/- Precision**
233	Exterior	A	Ext. House 13	Door Casing (buried)	Metal	FAIR	Red	0	10	Positive	1.6 +/- 0.5
268	Exterior	A	Ext. House 15	Ext. Soffit (buried)	Metal	FAIR	Red	0	10	Positive	1.8 +/- 0.7

APPENDIX D

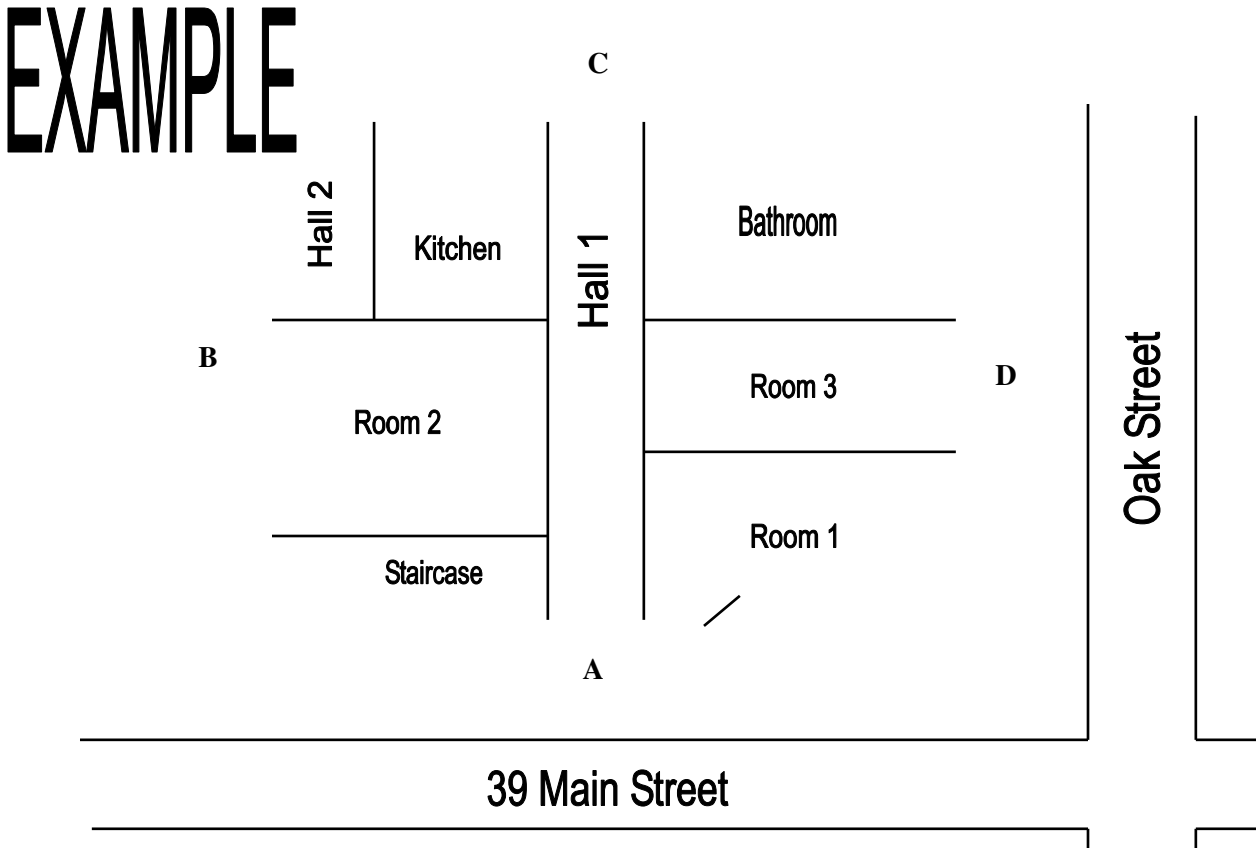
Maps of Residence

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.

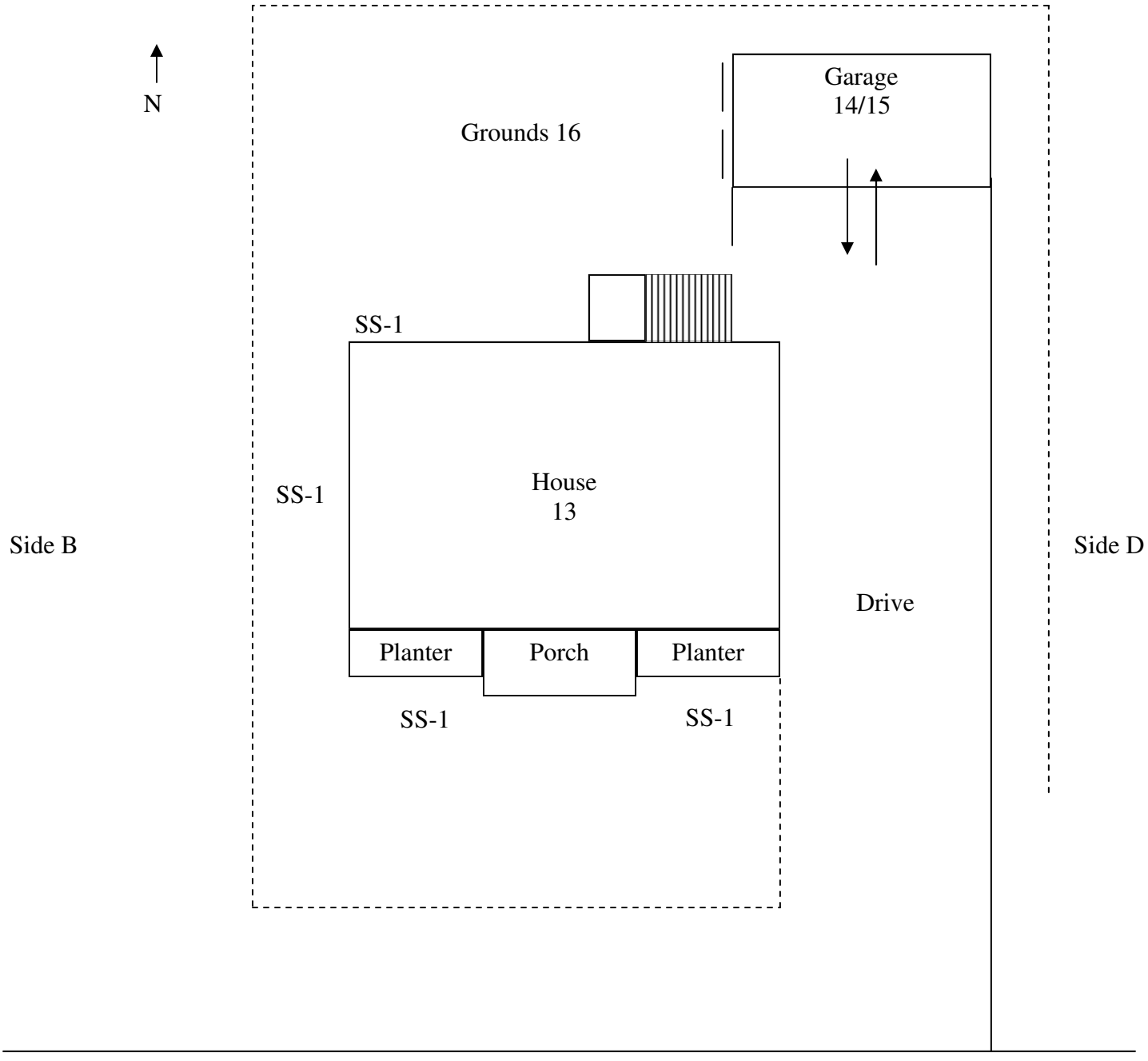
Inside the house, the process is much the same. The wall of each room that is nearest the A side of the house will be identified as wall A in the report. The wall nearest the B side will be labeled wall B, and so on.

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.



Side C

2114 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.

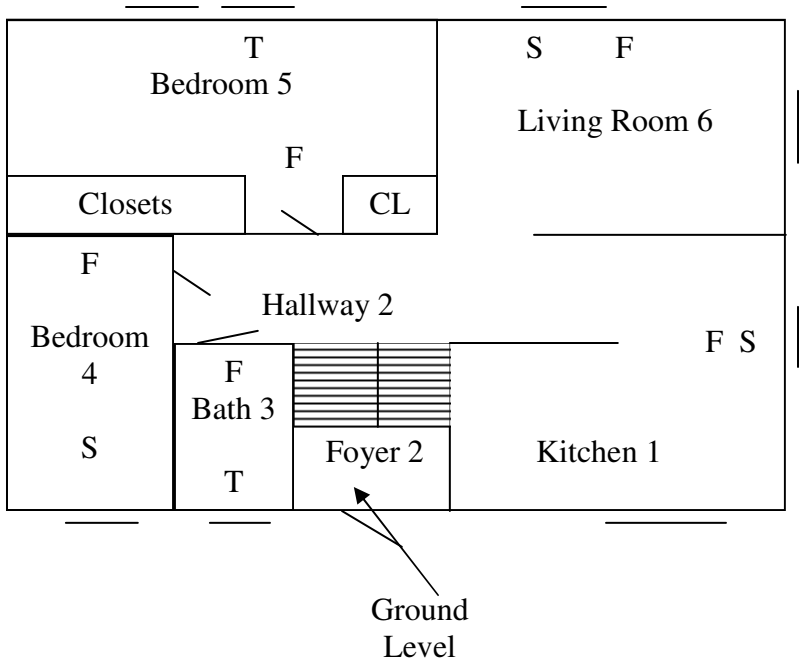
Side A

Genesee County Land Bank
137263

Side C

2114 Barbara Drive
Flint, MI 48504
Year Built: 1940's

Upper Level



Side B

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

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.

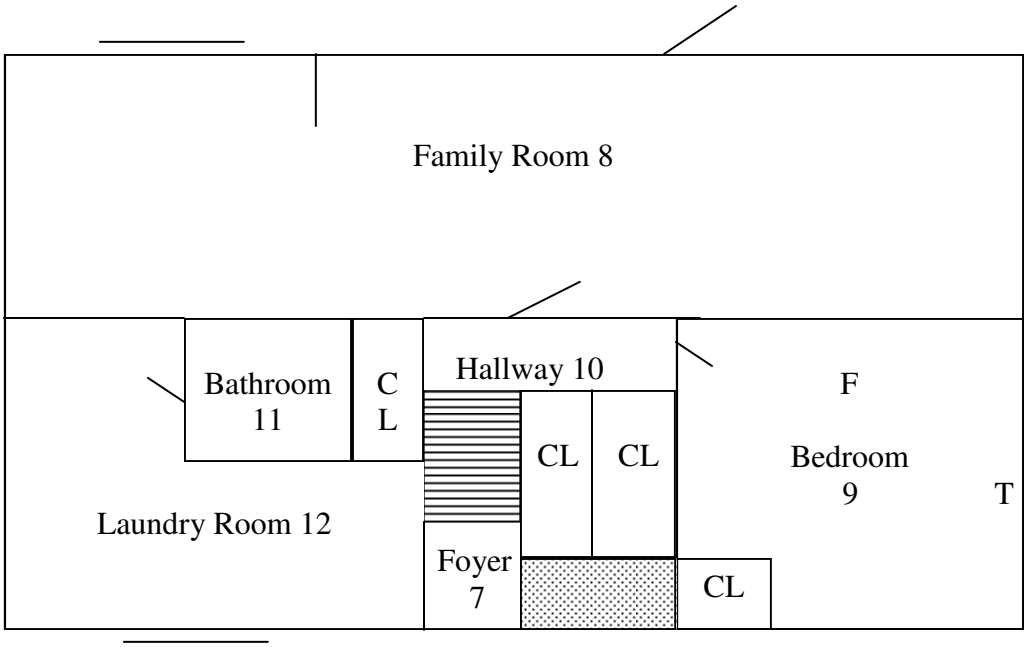
Side A

Genesee County Land Bank
137263

Side C

2114 Barbara Drive
Flint, MI 48504
Year Built: 1940's

Lower Level



Side B

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

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
137263

APPENDIX E

Resident Questionnaire
and
Building Condition Form

RESIDENT QUESTIONNAIRE

This residence was VACANT at the time of the inspection

Do any children under the age of 18 live in the home?	N/A—Vacant
What are the ages of the children?	N/A—Vacant
Do any children under the age of 18 visit regularly in the home?	N/A—Vacant
What are the ages of the children?	N/A—Vacant
Any known elevated blood lead levels?	N/A—Vacant
Location of children (under 7) bedrooms.	N/A—Vacant
Where do children eat? Rm. #'s:	N/A—Vacant
What room are toys stored (children play)?	N/A—Vacant
Where do children play outdoors?	N/A—Vacant
Which windows are opened most often?	N/A—Vacant
Rooms with window air conditioners.	None
Have any renovation work items been completed in the last several years?	Unknown
Are you planning any renovations of the home?	Yes—gut/rehab in summer 2011
Are you planning any landscaping activities?	No
Is there evidence of chewed, chipped, or peeling paints?	Yes—see XRF results
Have any previous lead inspections/assessments been completed at this property?	Unknown
Have any lead hazard control activities been conducted at this address?	Unknown
Are you aware of any current lead paint hazards in this home?	No
Has a housing code violation ever been issued for this building?	Unknown
Which entrances are used most often?	N/A—Vacant
Do you have a vegetable garden?	N/A—Vacant
Is there a dog or cat in the home?	N/A—Vacant
How often is the house regularly cleaned?	N/A—Vacant
How often is the house thoroughly cleaned?	N/A—Vacant
What cleaning methods are used?	N/A—Vacant
Do any household members work in a field that might expose them to lead?	N/A—Vacant
If yes to 21, where are work clothes stored for cleaning?	N/A—Vacant
Who was interviewed for this section?	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—POTENTIAL MOLD GROWTH	X	
Total	**7**	**6**

APPENDIX F

Re-Evaluation Schedule Chart

Standard Reevaluation Schedule
(See Notes to Table)

Schedule	Evaluation Results	Action Taken	Reevaluation Frequency	Visual Survey (by owner or owner's representative)
1	Combination risk assessment/inspection finds no leaded 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 leaded 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. B. Treatments specified in section A plus replacement of all windows with lead hazards C. Abatement of all lead-based paint using encapsulation or enclosure D. Removal of all lead-based paint	1 year, 2 years 1 year None None	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. Same as Schedule 3 above None
4	The average of leaded 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. B. Treatments specified in section A plus replacement of all windows with lead hazards C. Abatement of all lead-based paint using encapsulation or enclosure D. Removal of all lead-based paint	6 months, 1 year, 2 years 6 months 2 years None None	Same as Schedule 3 Same as Schedule 3 Same as Schedule 3 None
5	No leaded dust or leaded 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) B. Mixture of interim controls and abatement, including window replacement C. Abatement of all lead-based paint hazards, but not all lead-based paint D. Abatement of all lead-based paint using encapsulation or enclosure E. Removal of all lead-based paint	2 years 3 years 4 years None None	Same as Schedule 3 Same as Schedule 3 Same as Schedule 3 Same as Schedule 3
6	Bare leaded soil exceeds standard, but less than 5.000 µ g/g.	Interim controls	None	3 months to check new ground cover, then annually to identify new bare spots
7	Bare leaded soil greater than or equal to 5.000 µ 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

Side C Steps

Garage Side A

Yard

Interior

```
ERROR: stackunderflow
OFFENDING COMMAND: ~

STACK:
```

GLOBAL
ENVIRONMENTAL
ENGINEERING INC.

Rehabilitation
Environmental Inspection Report
For:
46-26-155-022
2114 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 – 2nd Floor
Flint, Michigan 48502

Site Summary

HM	**A**
T	

Genesee County Rehabilitation Environmental Inspection Summary

46-26-155-022
2114 Barbara Drive
Flint, Michigan 48504

Year Built:	1961	**Square Footage:**	1593
Latitude:	N 43º 04'06.09”	**Longitude:**	W 83º 43'46.06"
Gas:	Connected	**Electric:**	Connected

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

Inspected By:
Mark Keyes
Julie Herrick
Robert Dunlap

Inspected On:
June 6, 2011

GLOBAL
ENVIRONMENTAL
ENGINEERING INC.

Table of Contents

Tables and Attachments

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:

- 2114 Barbara Drive, Flint, Michigan 48504
- Parcel No: 46-26-155-022

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

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 that 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, three of the suspect materials sampled, the transite siding, the window caulk and 9-inch brown floor tile contain asbestos. A copy of the laboratory results is included as **Attachment 3**.

The transite siding located on the exterior of the house, the window caulk on the basement windows and the 9-inch brown floor tile located in the basement 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 M. Herrick

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

46-26-155-022
2114 Barbara Drive
Flint, Michigan 48504

TABLE 1

HAZARDOUS MATERIALS

Material	Quantity & Units	Location
Smoke Detector	1 Unit(s)	Kitchen
Air Conditioner	1 Unit(s)	Living Room
Mercury Thermostat	1 Unit(s)	Hall
Air Conditioner	1 Unit(s)	Basement
Television	1 Unit(s)	Basement
Battery	2 Unit(s)	Basement
Paint	2 - 1 Gallon(s)	Basement
Smoke Detector	1 Unit(s)	Basement
Paint	1 - 1 Gallon(s)	Garage
Purple Power	1 - 1 Gallon(s)	Garage
WD-40	1 - 9 Ounce(s)	Garage
Motor Oil	1 - 1 Quart(s)	Garage
Varnish Stripper	1 - 1/2 Gallon(s)	Garage
Caulk	1 - 10 Ounce(s)	Garage
Transmission Fluid	1 - 1 Quart(s)	Garage
Tuff Stuff	1 - 16 Ounce(s)	Garage
Polyurethane	1 - 16 Ounce(s)	Garage
Kool Lube	1 - 16 Ounce(s)	Garage
Floor Tile Adhesive	1 - 1 Gallon(s)	Garage
Floor Tile Adhesive	1 - 1 Pint(s)	Garage
Mercury Light	1 Bulb(s)	Back of House

TIRE(s) REPORT

Material	Quantity & Units	Location
Tire(s)	1 Tire(s)	Garage
Tire(s)	2 Tire(s)	Backyard

Genesee County Pre-Demolition
Environmental Inspection Summary

46-26-155-022
2114 Barbara Drive
Flint, Michigan 48504

TABLE 2
SUSPECT FRIABLE ASBESTOS CONTAINING MATERIALS

Sample ID	Material	Sample Location	Location	Estimated Quantity	% ACM	ACM Present
2114-1	**Transite Siding**	**Exterior Siding of House**	**Exterior Siding of House**	**2,505 Square feet**	**25**	**Yes**
2114-2	Celotex	Under Exterior Siding	Under Exterior Siding	2,505 Square feet	Non Detect	No
2114-3	Drywall	Living Room	Throughout	6,372 Square feet	Non Detect	No
2114-4	Linoleum (2 Layer)	Bathroom	Bathroom	24 Square feet	Non Detect	No
2114-5	Linoleum (1 Layer)	Kitchen	Kitchen	140 Square feet	Non Detect	No
2114-6	Linoleum 12" Tan	Basement	Basement	864 Square feet	Non Detect	No
2114-7	Linoleum	Basement	Basement	48 Square feet	Non Detect	No
2114-8a	**Window Caulk**	**Basement**	**Basement Windows**	**4 Square feet**	**1.7**	**Yes**
2114-8b	**Window Caulk**	**Basement**	**Basement Windows**	**Same as above**	**NA**	**Yes**
2114-8c	**Window Caulk**	**Basement**	**Basement Windows**	**Same as above**	**NA**	**Yes**
2114-9	**9" Brown Floor Tile**	**Basement**	**Basement**	**160 Square feet**	**7.5**	**Yes**
2114-9	Black Mastic	Basement	Basement	160 Square feet	Non Detect	No
2114-10a	Stucco over Drywall	Basement	Basement	144 Square feet	Non Detect	No
2114-10b	Stucco over Drywall	Basement	Basement	Same as above	Non Detect	No
2114-10c	Stucco over Drywall	Basement	Basement	Same as above	Non Detect	No
2114-11	Roofing Material	House Roof	House Roof	1,080 Square feet	Non Detect	No
2114-12	Linoleum	Garage Wall	Garage Wall	128 Square feet	Non Detect	No

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.
NA = Sample not analyzed

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

Attachment 1

Air Conditioner
Living Room

Mercury Thermostat
Hallway

Air Conditioner
Basement

Paint
Basement

Television
Basement

Battery and Smoke Detector
Basement

GLOBAL ENVIRONMENTAL ENGINEERING INC.

Genesee County Renovation Environmental Inspection Summary
Parcel ID: 46-26-155-022
Address: 2114 Barbara Drive, Flint, Michigan

Pictures of Hazardous Materials

Prepared By:	J.M.H.
Taken:	06/06/2011
Page:	1

Paints, Automotive Fluids, Adhesives Etc.
Garage

Tire
Garage

Mercury Light
Back of House

GLOBAL ENVIRONMENTAL ENGINEERING INC.

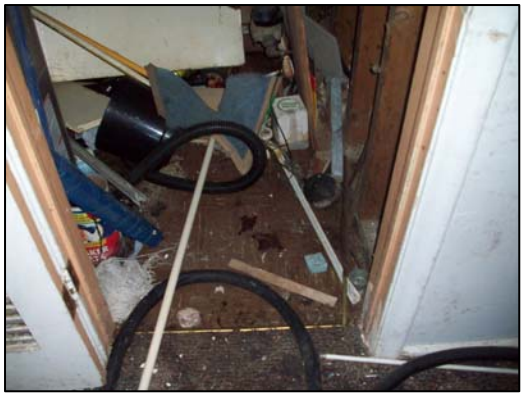
Genesee County Renovation Environmental Inspection Summary
Parcel ID: 46-26-155-022
Address: 2114 Barbara Drive, Flint, Michigan

Pictures of Hazardous Materials

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

Transite Siding
Exterior Siding

Window Caulk
Basement Windows



9-inch brown floor tile
Basement

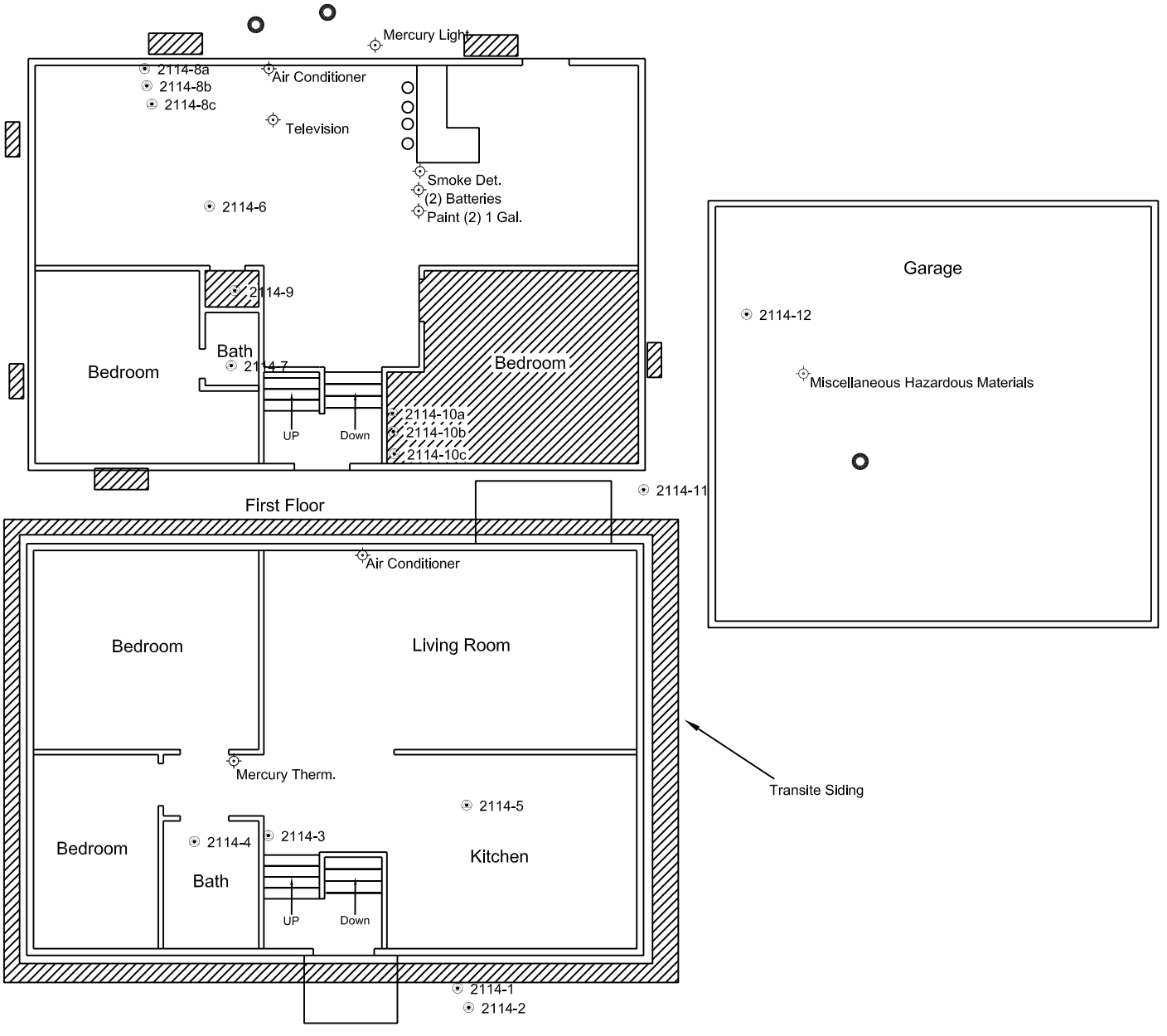
GLOBAL ENVIRONMENTAL ENGINEERING INC.

Genesee County Renovation Environmental Inspection Summary
Parcel ID: 46-26-155-022
Address: 2114 Barbara Drive, Flint, Michigan

Pictures of Asbestos Containing Material

Prepared By:	J.M.H
Taken:	06/06/2011
Page:	3

Attachment 2



GLOBAL ENVIRONMENTAL ENGINEERING INC.

Asbestos Containing Materials
Tire
Hazardous Material
Asbestos Spl Location

2114 Barbara Dr.
Flint, Michigan

House Floor Plan

Last Modified: June 2011

Project No.: F1438

Attachment: 2

Attachment 3

iATL INTERNATIONAL
Asbestos Testing Laboratories

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: 6/15/2011
Report No: 242517
Project: GCLBA-Rehab 2114 Barbara
Project No.: F1438D

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4327409 **Description / Location:** Grey Transite Siding
Client No.: 2114-1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
25	Chrysotile	None Detected	None Detected	75

Lab No.: 4327410 **Description / Location:** Tan Fibrous
Client No.: 2114-2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Cellulose	10

Lab No.: 4327411 **Description / Location:** White Sheetrock
Client No.: 2114-3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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

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: T. Fisher

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

Date: 6/15/2011

iATL INTERNATIONAL
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CERTIFICATE OF ANALYSIS

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

Report Date: 6/15/2011
Report No: 242517
Project: GCLBA-Rehab 2114 Barbara
Project No.: F1438D

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4327412 **Description / Location:** Off-White Vinyl Sheet Flooring
Client No.: 2114-4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	75

Lab No.: 4327412 **Description / Location:** Off-White Vinyl Sheet Flooring **Layer No.:** 2
Client No.: 2114-4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	80
		5	Fibrous Glass	

Lab No.: 4327413 **Description / Location:** Black Vinyl Sheet Flooring
Client No.: 2114-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	85
		5	Fibrous Glass	

Lab No.: 4327414 **Description / Location:** Off-White Floor Tile; 12"
Client No.: 2114-6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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

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: T. Fisher

Date: 6/15/2011

9000 Commerce Parkway, Ste B
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Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

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

Report Date: 6/15/2011
Report No: 242517
Project: GCLBA-Rehab 2114 Barbara
Project No.: F1438D

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4327415 **Description / Location:** Tan Vinyl Sheet Flooring
Client No.: 2114-7

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	80
		5	Fibrous Glass	

Lab No.: 4327416 **Description / Location:** Lt.Grey Glazing
Client No.: 2114-8a Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3

Lab No.: 4327417 **Description / Location:** Sample Not Analyzed
Client No.: 2114-8b

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No.: 4327418 **Description / Location:** Sample Not Analyzed
Client No.: 2114-8c

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

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

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: L. Solebello

Date: 6/15/2011

iATL INTERNATIONAL
Asbestos Testing Laboratories

9000 Commerce Parkway, Ste B
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CERTIFICATE OF ANALYSIS

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

Report Date: 6/15/2011
Report No: 242517
Project: GCLBA-Rehab 2114 Barbara
Project No.: F1438D

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4327419 **Description / Location:** Tan Floor Tile; 9"
Client No.: 2114-9

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 7.5	Chrysotile	None Detected	None Detected	PC 92.5

Lab No.: 4327419 **Description / Location:** Black Mastic **Layer No.:** 2
Client No.: 2114-9

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4327420 **Description / Location:** Off-White Texture
Client No.: 2114-10a

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4327421 **Description / Location:** Off-White Texture
Client No.: 2114-10b

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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

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: L. Solebello

Date: 6/15/2011

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CERTIFICATE OF ANALYSIS

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

Report Date: 6/15/2011
Report No: 242517
Project: GCLBA-Rehab 2114 Barbara
Project No.: F1438D

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4327422 **Description / Location:** Off-White Texture
Client No.: 2114-10c

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4327423 **Description / Location:** Black Shingle
Client No.: 2114-11

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Cellulose	40

Lab No.: 4327424 **Description / Location:** Off-White Vinyl Sheet Flooring
Client No.: 2114-12

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	80
		5	Fibrous Glass	

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

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: L. Solebello

Date: 6/15/2011

IATL INTERNATIONAL
Asbestos Testing Laboratories

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Chain of Custody

Client: Global Environmental Engineering Inc.
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Flint, MI 48507

Project Name: GCLBA-Rehab 2114 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:

[ ] PCM : NIOSH 7400	See Page 2 for Bulk Asbestos Specific Log [X] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : TWA	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : Dust / Wipe
	[ ] If <1% by PLM, to TEM via 198.4 [2]	[ ] TEM : Dust / Microvac
[ ] AAS : Lead in Air	[ ] PLM : See page 2 for instructions	[ ] TEM : NOB 198.4
[ ] AAS : Lead in Water	See Page 4 for Mold Specific Log	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint	[ ] IAQ: I Bioaersol Fungal Spore Trap [3]	[ ] TEM : Potable Water
[ ] AAS : Lead Dust/Wipe [1]	[ ] IAQ: II Bioaersol Fungal Spore Trap [4]	[ ] TEM : Non-Potable Water
[ ] AAS : Lead in Soil	[ ] IAQ: Tape, Bulk, Misc. Qualitative [3]	[ ] TEM : Other_____
[ ] AAS : TCLP	[ ] IAQ: Tape, Bulk, Misc. Quantitative [3]	[ ] Total Dust : NIOSH 0500
[ ] AAS : Metals (Cd, Zn, Cr)	[ ] IAQ: Other Culturable ID [2]	[ ] 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... _____ date / time ❑ Verbals ☒ FAX ☒ Email jherrick@globaleei.com

[ ] 10 Day [X] 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): 2114-1 (start) - 2114-12 (end) IATL#(s): _____ (start) - _____ (end) Total: 12

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): Julie Herrick Date: 6/8/11 Time: 10:15
Received (Name / IATL): _____ Date: _____ Time: _____
Sample Login (Name / IATL): JM 6/13/11 Date: _____ Time: _____
Sample Prep (Name / IATL): _____ Date: JUN - 9 2011 Time: _____
Analysis(Name(s) / IATL): LS 6/15/11 Date: _____ Time: _____
QA/QC Review (Name / IATL): 6/17/11 Date: _____ Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

RECEIVED
IATL - By

IATL INTERNATIONAL
Asbestos Testing Laboratories

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

Chain of Custody

- Bulk Asbestos Sample Log –

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

Project Name: 2114 Barbara
Project No.: F1438D

PLM Special Instructions:

[X] 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: 6-6-2011

Client Sample ID:	IATL Sample ID:	Sample Description / Location	Notes
2114-1	4327409	Transite Siding	Composite where possible
2114-2	4327410	Celotex	
2114-3	4327411	Drywall	
2114-4	4327412	Linoleum 2 Layers	
2114-5	4327413	Linoleum 1 Layer	
2114-6	4327414	Linoleum 12" Tan	
2114-7	4327415	Linoleum Tan w/ flowers	
2114-8a	4327416	Window Caulk	AUP
2114-8b	4327417	↓	↓
2114-8c	4327418	↓	↓
2114-9	4327419	9" Brn Floor Tile	
2114-10a	4327420	Stucco	AUP
2114-10b	4327421	↓	↓
2114-10c	4327422	↓	↓
2114-11	4327423	Roofing Material	

IATL INTERNATIONAL
Asbestos Testing Laboratories

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

Chain of Custody

- Bulk Asbestos Sample Log –

Client: Global

Project Name: 2114 Barbara
Project No.: F1438D

Client Sample ID:	IATL Sample ID:	Sample Description / Location	Notes
2114-12	4327424	Linoleum	Composite where possible
		LS 6/5/11	

Please Make Additional Copies As Needed

Attachment 4

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT (DNRE) AIR QUALITY DIVISION
NESHAP, 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 (NESHAP) ***[260 ln. ft./160 sq. ft. or more is threshold]***

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

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

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

2. PROJECT SCHEDULE:

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

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

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

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

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

3. ABATEMENT CONTRACTOR: Internal Project #: _____

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

4. DEMOLITION CONTRACTOR: Internal Project #: _____

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

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

Name: _____
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 NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification.

Gov't Agency Ordering Demo: _____
Name/Title of Person Signing Order: _____
_____
Date of Order: _____ Date Ordered to Begin: _____

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

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

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

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

(continued on reverse side)

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

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

Encapsulation (for 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/deq click on Air, then Asbestos NESHAP Program.

All Counties (except Wayne County)

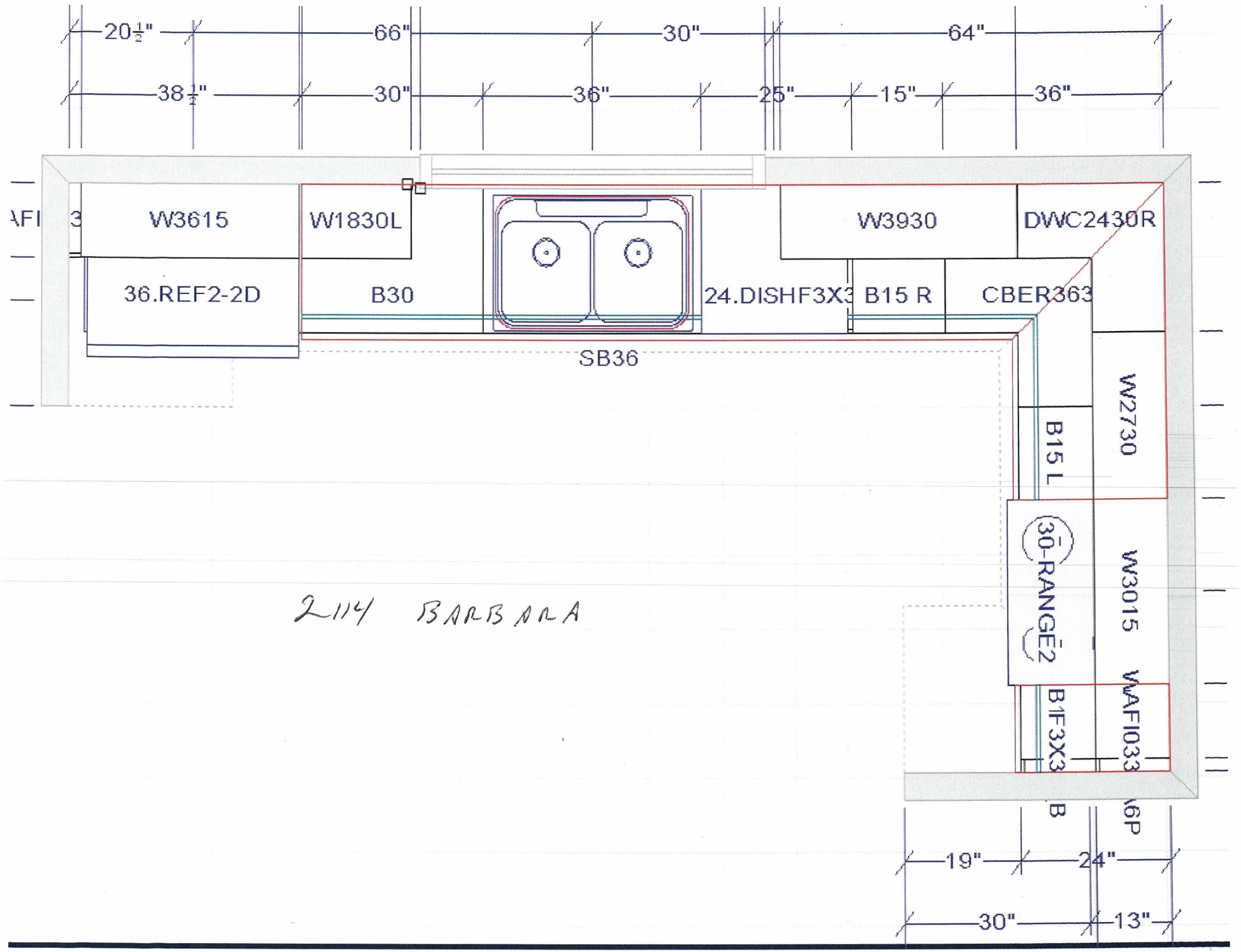
NESHAP Asbestos Program
DNRE, AQD
P.O. Box 30260
Lansing, MI 48909-7760

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



2114 BARBARA