

**ASBESTOS AND HAZARDOUS MATERIAL  
INVESTIGATION REPORT**

**FOR**

**5509 Philip  
Detroit, MI 48224**



**Contract 09302013A  
N.P. # 07282014D**

**Prepared for:  
Michigan Land Bank  
Cadillac Place  
3022 West Grand Blvd., Suite 4-600  
Detroit, MI 48202**



**August 7, 2014**



August 7, 2014

LGC/ADR-SUR-0409

Detroit Land Bank Authority  
Attn: Mr. Barry Ellentuck  
ADR Consultants, LLC  
65 Cadillac Square, Suite 3200  
Detroit, MI 48226

Reference: Contract 09302013A, NP Survey 07282014D

Subject: Asbestos and Hazardous Material Investigation Report for 5509 Philip, Detroit 48224

Dear Mr. Ellentuck:

Lakeshore Global Corporation (LGC Global) was retained by ADR Consultants, LLC to perform Asbestos and Hazardous Material Survey. Attached please find 1 electronic copy of the Asbestos and Hazardous Material Investigation Report for the property located at 5509 Philip, Detroit 48224

LGC Global trusts that this report provides the information necessary to evaluate the environmental risks and assessment of asbestos material associated with the property. Please pay particular attention to Section 3.3, Other Hazardous Materials, Section 3.4, Laboratory Results, and Section 3.5, Removal Options.

LGC Global appreciates the opportunity to provide environmental services to the City of Detroit and ADR Consultants, LLC and is committed to serve you in the future.

Please do not hesitate to contact me at (313) 989 4141 if you have any questions or require additional information.

Very Truly Yours,  
**Lakeshore Global Corporation**

A handwritten signature in black ink, appearing to read "Colt Odeh", is written over a horizontal line.

Colt Odeh  
President

Attachments: Asbestos and Hazardous Material Investigation Report

File: Asbestos-5.02C

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Chain of Custody and Laboratory Results

EMSL Certificate of Accreditation

## **1.0 INTRODUCTION**

Lakeshore Global Corporation, (LGC) has been retained by the Detroit Land Bank and ADR Consultant LLC, to perform a study which included an asbestos and hazardous materials survey within the building located at 5509 Philip. The purpose of the survey was to verify and approximately quantify, to the extent possible, any asbestos-containing pipe insulation and pipefitting, various insulation materials, flooring, wall plaster, roofing, fire doors, and any other suspected asbestos containing materials within the abandoned building. The results of the asbestos study are also required for the projects planned demolition activities in accordance with the current EPA's 40 CFR Part 61 of the Federal Register, and NESHAP revision. The report also includes recommendations on proper removal guidelines and procedures, various removal options and waste disposal procedures.

The asbestos survey of the building was performed on August 2, 2014. The survey was performed by personnel who have completed EPA-approved training and are certified by the State of Michigan, Department of Labor and Economic Growth-Asbestos Program (MDLEG) as an asbestos inspector. Jef Fox's accreditation number is A26737, who performed this building survey.

## **2.0 SCOPE OF WORK**

As part of this study, our scope of work consisted of the following items:

- Conduct an on-site survey of the building.
- Identify and approximately quantify Asbestos Containing Material (ACM) within the building.
- Collect samples from suspected asbestos containing building materials where it is deemed appropriate as determined by the licensed inspector and submit the samples for analysis. No sample identification and or masking are required to be attached at sample location area. However, sample locations are identified to help locate those areas during abatement procedures.
- Submit the sample for analysis to the lab.
- Analyze bulk samples collected during this survey using Polarized Light Microscopy (PLM).

- Write options and recommendations on removal procedures for ACM found in the building surveyed.

### **3.0 BUILDING # 5509 PHILIP**

#### **3.1 Description of Building**

The site is located on the north side of Warren, between Newport and Outer Dr., in a residential neighborhood in Detroit, MI. The building identified as 5509 Philip is a one-story house with a crawl space and a garage. The house encompasses approximately 600 square feet and is of wood frame construction with vinyl siding. The garage is also of wood frame construction with block siding. Access to the house was gained through the front door, which was not secured. Even though the house was in poor condition, the entire house was accessible for surveying. The house utilized a forced air heating system. There were no hidden duct runs detected from the heat source. Lakeshore Global Corporation personnel surveyed the subject building on August 2, 2014.

#### **3.2 ACM Assessments and Sampling**

During the survey, suspected ACM were observed in a total of 6 locations. We collected samples from these locations such as plaster, drywall systems, textured paint, floor tile, window putty and roof shingles.

A total of 12 individual, properly packed, and labeled bulk samples were sent to EMSL Analytical, Inc. in Indianapolis, IN for analysis of ACM utilizing Polarized Light Microscopy (PLM) dispersion staining method. EMSL Analytical Inc. is an accredited laboratory in the National Voluntary Laboratory Accreditation Program (NVLAP) for the analysis of asbestos by the PLM method. See Appendix B for EMSL's certificate of accreditation.

#### **3.3 Other Hazardous Materials**

During the survey, LGC personnel did not observe any other hazardous materials in the property at the time of inspection.

### **3.4 Laboratory Results**

The laboratory results indicated that all of the samples tested negative for asbestos when analyzed by PLM.

The location, description, and analytical results for each bulk sample collected are presented in Table 1. Table 2 presents the summary of ACM and other hazardous materials found in the building. Please refer to Appendix A for Tables 1 and 2 and Appendix B for the laboratory results, Chain-of Custody, Site Photographs, and Sample Location Schematics.

### **4.0 LIMITATIONS**

Based upon our findings, the opinions rendered represent Lakeshore Global Corporation's best professional judgment regarding the environmental status of the subject property, and as such, are not a guarantee. Although Lakeshore Global Corporation believes the information obtained, and upon which this report is based, is accurate, we cannot guarantee the validity of the information provided to us by others. Lakeshore Global Corporation's professional judgment is based on generally accepted environmental practices and procedures designated to assess asbestos containing materials with respect to industry standards at the time of the investigation.

Lakeshore Global Corporation makes no warranty, either expressed or implied, as to its findings, opinions, recommendations, specifications or professional advice except that these are prepared in accordance with generally accepted standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. The conclusions and recommendations presented represent professional judgments and are based upon the findings from the investigation identified in the report and the interpretation of such data based on our experience and background.

**APPENDIX - A**

TABLE 1 – SUMMARY OF BULK SAMPLE RESULTS

TABLE 2 – ASBESTOS AND HAZARDOUS MATERIAL ASSESSMENT

**TABLE – 1**  
Summary of Bulk Sample Results

<b>Sample Number</b>	<b>Floor</b>	<b>Sample Detail &amp; Location</b>	<b>Material Description</b>	<b>Percent Asbestos CH, AM, CR, OT</b>
5509-1-PL-A,B,C	1 <sup>st</sup> Floor	Plaster: Living Room and Bedrooms	White	ND
5509-2-DS-A,B,C	1 <sup>st</sup> Floor	Drywall Systems: Living Room, Bedroom and Rear	White	ND
5509-3-TP-A,B,C	1 <sup>st</sup> Floor	Textured Paint: Living Room and Bedrooms	White	ND
5509-4-FT-A	1 <sup>st</sup> Floor	12" x 12" Floor Tile: Kitchen	White	ND
5509-5-WP-A	Exterior	Window Putty: Exterior Windows	White	ND
5509-6-SH-A	Roof	Roof Shingles: Roof	Black	ND

CH – Chrysotile    AC- Actinolite    CR – Crocidolite    OT – Other    ND – None detected



**TABLE – 2**  
Asbestos and Hazardous Material Assessment

<b>Description</b>	<b>Location</b>	<b>Estimated Quantity</b>	<b>Remarks</b>
Pipe Insulation (Air cell) Linear feet	NA	NA	NA
Mudded Joints/Elbow (ACM)	NA	NA	NA
Tank Insulation (ACM)	NA	NA	NA
Duct Wrap (ACM)	NA	NA	NA
Dryer Insulation (ACM)	NA	NA	NA
Window Putty (ACM)	NA	NA	NA
Floor tile (12" X 12") (ACM)	NA	NA	NA
Floor tile (9" X 9") (ACM)	NA	NA	NA
Linoleum (ACM)	NA	NA	NA
Wall Board	NA	NA	NA
Ceiling tile (ACM)	NA	NA	NA
Textured Paint (ACM)	NA	NA	NA
Boiler/tank (ACM)	NA	NA	NA
Plaster (ACM)	NA	NA	NA
Debris on floor	NA	NA	NA
Glue Pods (ACM)	NA	NA	NA
Roof material (ACM)	NA	NA	NA
Inaccessibility (ACM)	NA	NA	NA
Miscellaneous 5 gallon Miscellaneous cans	NA	NA	NA
Paint Cans	NA	NA	NA
PCB ballast, each	NA	NA	NA
Fluorescent tubes, each	NA	NA	NA
Tires, each	NA	NA	NA
Vehicles, each	NA	NA	NA
Smoke Detectors, each	NA	NA	NA
55 gallon drums	NA	NA	NA
15 gallon drums	NA	NA	NA
Underground Storage Tank (UST)	NA	NA	NA
Aboveground Storage Tank (AST)	NA	NA	NA
Gas Tanks	NA	NA	NA
Oil Filters	NA	NA	NA
Exterior Transite Siding	NA	NA	NA

**APPENDIX - B**

SITE PHOTOGRAPHS & SAMPLE LOCATION SCHEMATICS

CHAIN OF CUSTODY AND LABORATORY RESULTS

EMSL CERTIFICATE OF ACCREDITATION



# PHOTOGRAPHIC LOG



Site Name:	Michigan Land Bank	Project Number:	07282014D
Address:	5509 Philip	Site Location:	Detroit, MI
Photo Number: 1			
Photographer: Jef Fox			
Date: 8/2/2014			
Direction: NA			
Description:  Front view of 5509 Philip			
Photo Number: 2			
Photographer: Jef Fox			
Date: 8/2/2014			
Direction: NA			
Description:  Side view of 5509 Philip			

# PHOTOGRAPHIC LOG



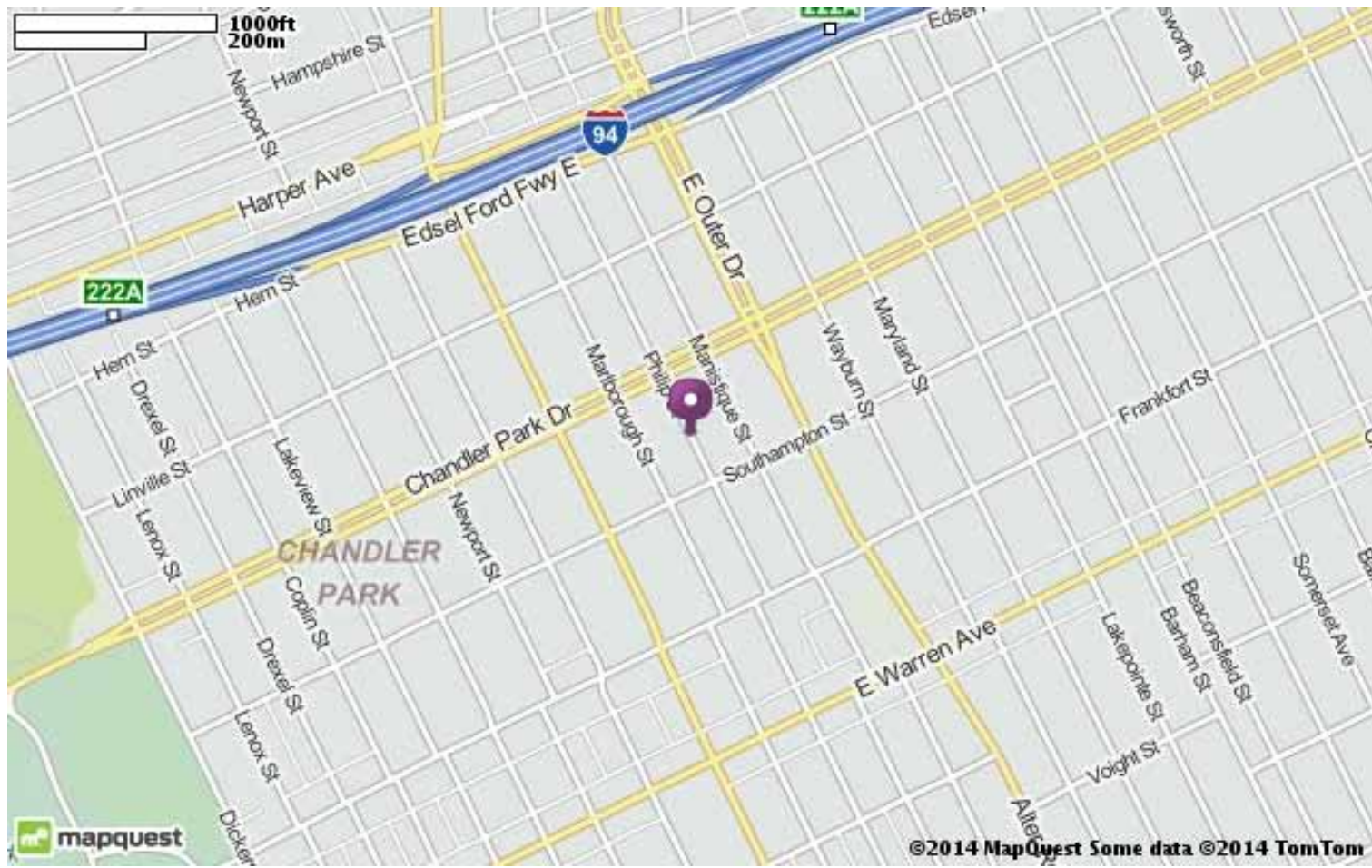
Site Name:	Michigan Land Bank	Project Number:	07282014D	
Address:	5509 Philip	Site Location:	Detroit, MI	
Photo Number:				
3				
Photographer:				Jef Fox
Date:				8/2/2014
Direction:				NA
Description:	View of garage			
Photo Number:				
4				
Photographer:				Jef Fox
Date:				8/2/2014
Direction:				NA
Description:	View of garage interior			



# PHOTOGRAPHIC LOG



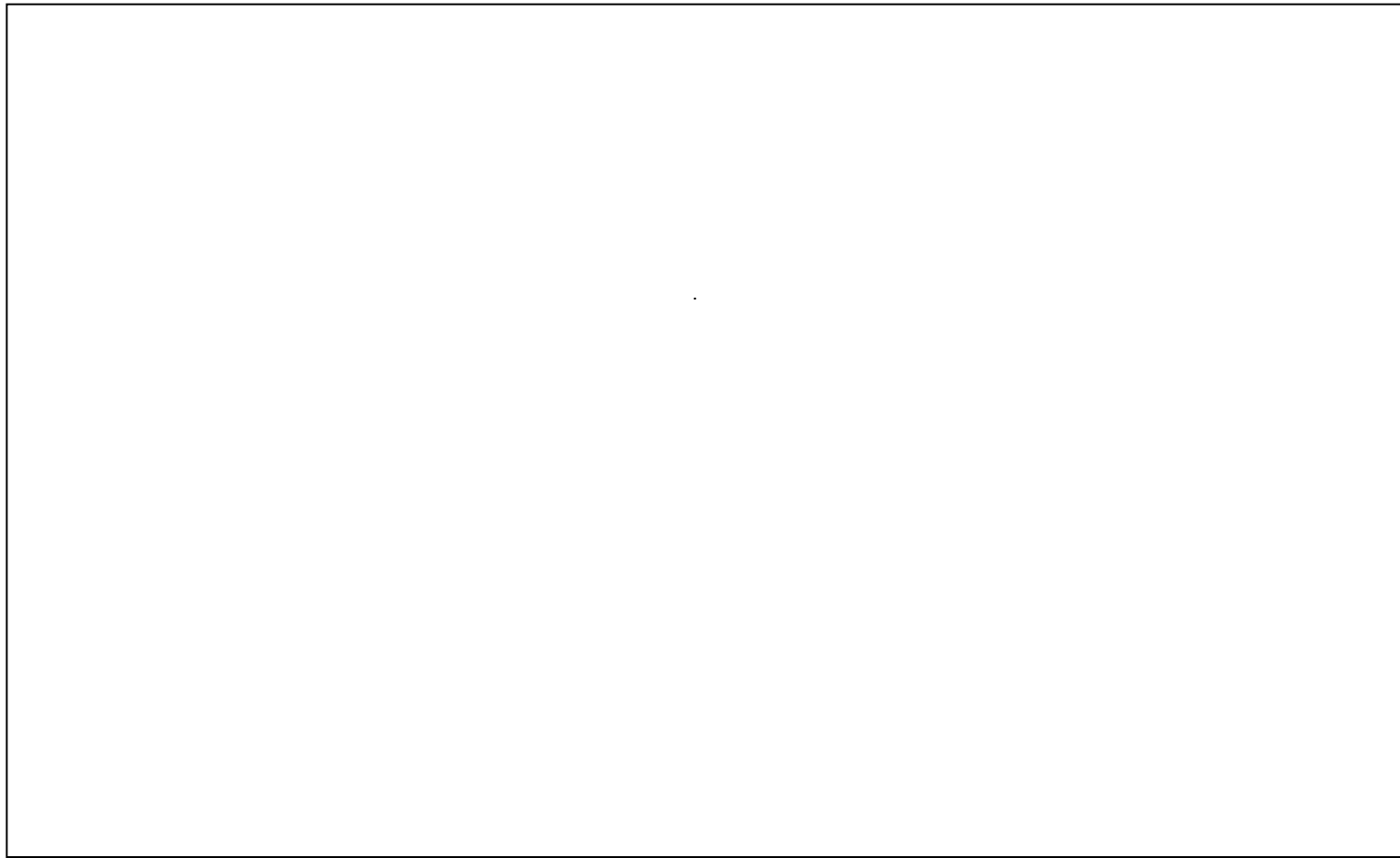
Site Name:	Michigan Land Bank	Project Number:	07282014D	
Address:	5509 Philip	Site Location:	Detroit, MI	
Photo Number:				
5				
Photographer:				Jef Fox
Date:				8/2/2014
Direction:				NA
Description:	View of debris			
Photo Number:				
6				
Photographer:				Jef Fox
Date:				8/2/2014
Direction:				NA
Description:	View of living room			



NOT TO SCALE

SAMPLE LOCATION SCHEMATIC  5509 Philip Detroit, MI	CITY OF DETROIT  Michigan Land Bank	JOB# 07282014D	FIGURE #: 1
		DATE: 8/2/2014	DRAWN BY: Jef Fox

CRAWL SPACE



LEGEND

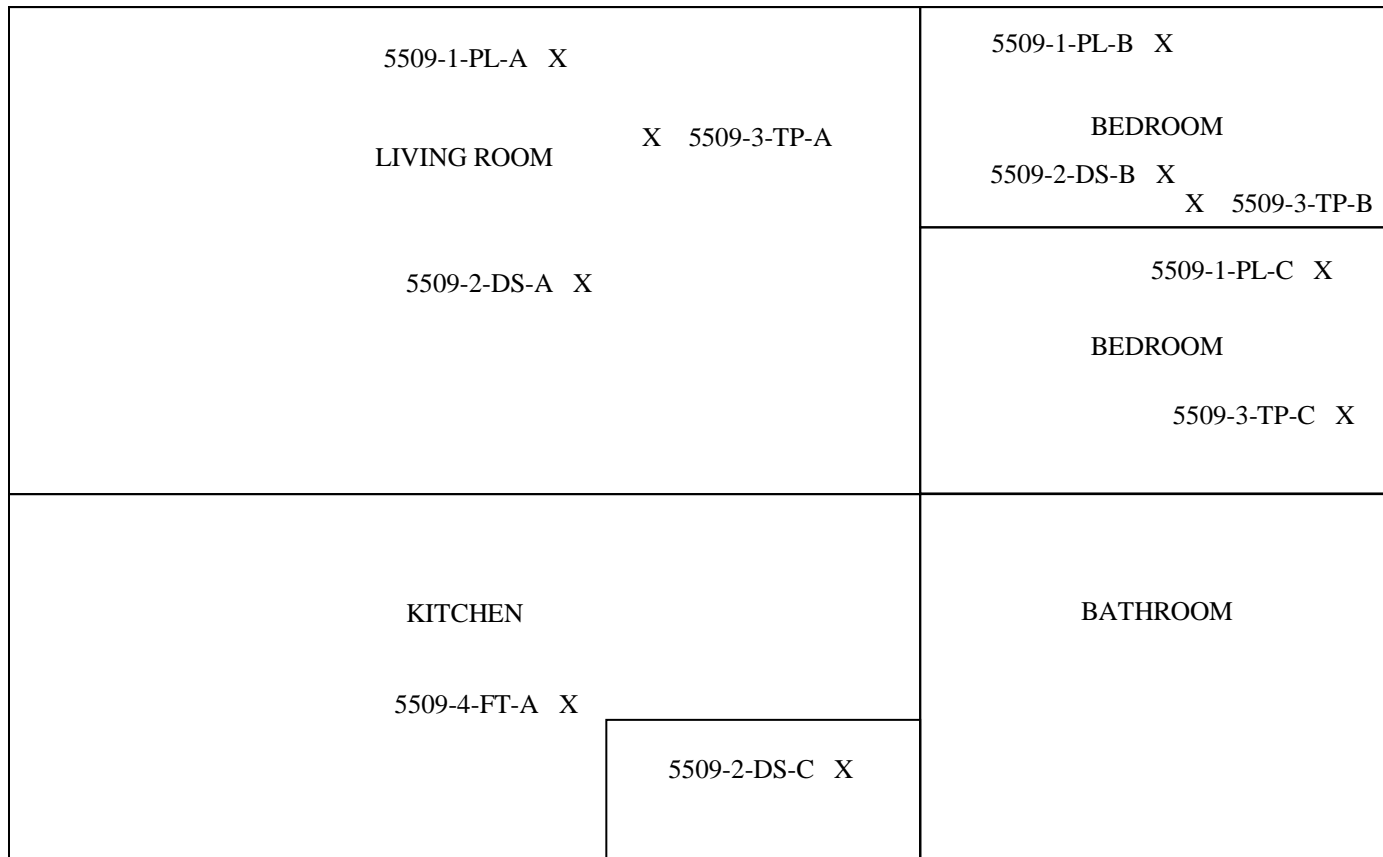
X = SAMPLE LOCATION

NOT TO SCALE

FLOOR PLAN BASEMENT 5509 Philip Detroit, MI	CITY OF DETROIT Michigan Land Bank	JOB# 07282014D	FIGURE #: 2
		DATE: 8/2/2014	DRAWN BY: Jef Fox

1<sup>st</sup> FLOOR

X 5509-5-WP-A



X 5509-6-SH-A

LEGEND

X = SAMPLE LOCATION

NOT TO SCALE

FLOOR PLAN 1 <sup>st</sup> FLOOR 5509 Philip Detroit, MI	CITY OF DETROIT  Michigan Land Bank	JOB# 07282014D	FIGURE #: 3
		DATE: 8/2/2014	DRAWN BY: Jef Fox



ROOF

NO SECOND FLOOR

LEGEND

X = SAMPLE LOCATION

NOT TO SCALE

FLOOR PLAN  
2<sup>nd</sup> FLOOR/ ROOF  
5509 Philip  
Detroit, MI

CITY OF DETROIT  
Michigan Land Bank

JOB# 07282014D

FIGURE #: 4

DATE: 8/2/2014

DRAWN BY: Jef Fox

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>[indianapolislab@emsl.com](mailto:indianapolislab@emsl.com)

EMSL Order: 161411592

CustomerID: LAKE42

CustomerPO:

ProjectID:

Attn: **Jean Dsa**  
**Lakeshore Global Corp.**  
**7310 Woodward Avenue**  
**Suite 501**  
**Detroit, MI 48202**

Phone: (313) 989-4141  
 Fax:  
 Received: 08/05/14 10:30 AM  
 Analysis Date: 8/6/2014  
 Collected: 8/2/2014

Project: 5509 PHILIP

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-PL-A-Texture 161411592-0001	LIVING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1-PL-A-Finish Coat 161411592-0001A	LIVING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
1-PL-A-Base Coat 161411592-0001B	LIVING	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 80% Non-fibrous (other)	None Detected
1-PL-A-Drywall 161411592-0001C	LIVING	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (other)	None Detected
1-PL-B-Texture 161411592-0002	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1-PL-B-Finish Coat 161411592-0002A	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
1-PL-B-Base Coat 161411592-0002B	BED	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 80% Non-fibrous (other)	None Detected
1-PL-B-Drywall 161411592-0002C	BED	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (19)  
 Jadda Moffett (7)

Richard Harding, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/06/2014 08:21:40

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

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Attn: **Jean Dsa**  
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 Analysis Date: 8/6/2014  
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Project: 5509 PHILIP

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-PL-C-Texture 161411592-0003	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
1-PL-C-Finish Coat 161411592-0003A	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1-PL-C-Base Coat 161411592-0003B	BED	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (other)	None Detected
1-PL-C-Drywall 161411592-0003C	BED	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
2-DS-A-Texture 161411592-0004	LIVING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2-DS-A-Drywall 161411592-0004A	LIVING	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (other)	None Detected
2-DS-B-Texture 161411592-0005	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2-DS-B-Drywall 161411592-0005A	BED	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (other)	None Detected

Analyst(s)  
 \_\_\_\_\_  
 Craig Nixon (19)  
 Jadda Moffett (7)

*Richard K. Harding*  
 Richard Harding, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/06/2014 08:21:40

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 Analysis Date: 8/6/2014  
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Project: 5509 PHILIP

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2-DS-C-Texture 161411592-0006	REAR	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
2-DS-C-Drywall 161411592-0006A	REAR	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
3-TP-A 161411592-0007	LIVING	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
3-TP-B 161411592-0008	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
3-TP-C 161411592-0009	BED	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
4-FT-A-Linoleum 161411592-0010	KITCHEN	Gray Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
4-FT-A-Floor Tile 161411592-0010A	KITCHEN	Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4-FT-A-Linoleum 161411592-0010B	KITCHEN	Brown/Black Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (19)  
 Jadda Moffett (7)

Richard Harding, Laboratory Manager  
 or other approved signatory

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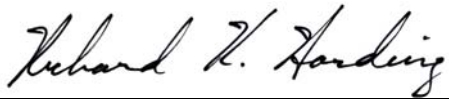
Phone: (313) 989-4141  
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 Received: 08/05/14 10:30 AM  
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 Collected: 8/2/2014

Project: 5509 PHILIP

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5-WP-A <i>161411592-0011</i>	EXTERIOR	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
6-SH-A <i>161411592-0012</i>	EXTERIOR	White/Black Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected

Analyst(s) \_\_\_\_\_  
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 Jadda Moffett (7)

  
 Richard Harding, Laboratory Manager  
 or other approved signatory

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Initial report from 08/06/2014 08:21:40

## Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only)

EMSL ANALYTICAL, INC.  
ANALYTICAL PRODUCTS & TRAINING

161411592

Company : Lakeshore Global Corporation		EMSL Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different, note instructions in Comments**</small>	
Street: 7310 Woodward Ave. Suite 500		<i>Third Party Billing requires written authorization from third party</i>	
City: Detroit	State/Province: MI	Zip/Postal Code: 48202	Country: USA
Report To (Name): Jean D'SA		Telephone #: (313) 898-4141	
Email Address: asbestos@lgccorp.com		Fax #: (313) 420-0339	Purchase Order:
Project Name/Number: <b>5509 PHILIP</b>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken:		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

<p><b>PLM - Bulk (reporting limit)</b></p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (&lt;1%)</p> <p><input type="checkbox"/> PLM EPA NOB (&lt;1%)</p> <p>Point Count <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (&lt;1%)</p> <p><input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)</p> <p><input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> OSHA ID-191 Modified</p> <p><input type="checkbox"/> Standard Addition Method</p>	<p><b>TEM - Bulk</b></p> <p><input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1</p> <p><input type="checkbox"/> NY ELAP Method 198.4 (TEM)</p> <p><input type="checkbox"/> Chatfield Protocol (semi-quantitative)</p> <p><input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep Technique</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;"><b>Other</b></p> <p><input type="checkbox"/></p>
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Check For Positive Stop - Clearly identify Homogenous Group      Date Sampled: **8-2-14**

Samplers Name: **J. Fox**      Samplers Signature:

Sample #	HA #	Sample Location	Material Description
5509-1-PL	A	BR LIVING	PLASTER
	B	BR BED	
	C	BR BED	
5509-2-DA	A	BR LIVING	DRYWALL SYSTEM
	B	BR BED	
	C	BR	
3TPA		LIVING	TENNED PAINT
	B	BED	
	C	BED	

Client Sample # (s): \_\_\_\_\_ Total # of Samples: \_\_\_\_\_

Relinquished (Client): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received (Lab): Date: **8/5/14** Time: **10:30 AM**

Comments/Special Instructions: \_\_\_\_\_

**Asbestos Bulk Building Material  
Chain of Custody**

EMSL Order Number *(Lab Use Only)*

EMSL ANALYTICAL, INC.  
3500 A STREET, PHOENIX, AZ 85018

11592

*Additional Pages of the Chain of Custody are only necessary if needed for additional sample information*

Sample #	HA #	Sample Location	Material Description
5509	4-FT#	KITCHEN	12X12 FLOOR TILE
	5-WP A	EXTENSION	WINDOW PUTTY
	6-SH A	EXTENSION	SHINGLES

\*Comments/Special Instructions:

United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:2005**

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NVLAP LAB CODE: 200188-0

**EMSL Analytical, Inc.**  
Indianapolis, IN

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2014-04-01 through 2015-03-31

*Effective dates*



A handwritten signature in black ink, appearing to read 'William R. M. L. Q.', is written over a horizontal line.

*For the National Institute of Standards and Technology*





**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**  
2001 E. 52nd Street  
Indianapolis, IN 46205-1405  
Mr. Richard Harding  
Phone: 317-803-2997 Fax: 317-803-3047  
E-Mail: rharding@emsl.com  
URL: http://www.emsl.com

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 200188-0**

<i>NVLAP Code</i>	<i>Designation / Description</i>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-04-01 through 2015-03-31

*Effective dates*

*For the National Institute of Standards and Technology*