



SIERRA ENVIRONMENTAL GROUP, INC.

September 22, 2015

Mr. Dennis Zimmer
City of Dayton
Department of Building Services/Division of Housing Inspection
P.O. Box 22
371 West 2nd Street, Room 324
Dayton, OH 45402

Re: Comprehensive Pre-Demolition Asbestos Inspection
Vacant Residence
140 Fernwood Avenue
Dayton, Ohio 45405
Sierra Project Number: MCLB.001

Dear Mr. Zimmer:

On September 11, 2015, Mr. Chuck Callahan and Mr. Todd Taylor (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialists #ES31960, #ES32139 respectively) of Sierra Environmental Group, Inc. (Sierra) visited the vacant residence located at 140 Fernwood Avenue in Dayton, Ohio. The purpose of this visit was to conduct a comprehensive asbestos inspection of the specified residence scheduled for demolition. This inspection process includes a visual inspection, as well as, the collection and analyses of samples from suspect asbestos-containing materials.

During the survey, the samples were collected utilizing sampling methods outlined in current EPA Guidance Documents. Each sample was collected and placed in a clean, sealable container and labeled with a unique sample identification number. Pertinent information was recorded on a Bulk Sample Log Sheet, including sample identification number, date of inspection, name of inspector, building name, a brief description and location of the sample, and the type of material sampled (e.g., thermal insulation, fireproofing, acoustical plaster). The samples were submitted to an analytical laboratory and analyzed for asbestos content by polarized-light microscopy (PLM) and dispersion staining (Method Reference: EPA-600/R-93/116). This analytical method, which the EPA currently recommends for the determination of asbestos in bulk samples of suspect materials, can be used for qualitative identification of six morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite asbestos.

The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percentage) within the range of 0 to 100. The result of the bulk sample analysis is reported in a standard written laboratory report. This report includes the client's name, the project number, the laboratory identification number, the sample number assigned to the bulk sample upon receipt at the laboratory, and the field number assigned to the bulk sample upon collection on site. If the bulk sample contains more than one distinct layer of material, each layer is analyzed separately. The composition of the bulk sample is reported in percentages of asbestos (i.e., chrysotile, amosite, or other) and non-asbestos (i.e., cellulose, fiberglass, or other) components. The results of the sample analyses can be found on the laboratory report enclosed and Table 1.

Sierra collected samples from wall and ceiling systems, flooring materials, roofing materials, window glaze, cementitious siding, blown-in insulation, baseboards, heat shield and duct insulation. Five (5) asbestos-containing materials were identified within the residence scheduled for demolition (Table -2 Asbestos Inventory). The cost to remove the Regulated Asbestos-Containing Materials (RACM) and Category II asbestos-containing materials from this site prior to demolition would be \$12,360.00. The cost to remove the Category I asbestos-containing materials from this site prior to demolition would be \$1,000.00. These costs have been estimated and are based on local wage rates and do not include prevailing wage rates. These costs do not include specifications, permits, contractor oversight or third party monitoring.

Sierra made every effort to locate suspect asbestos-containing materials that may be concealed; however, suspect asbestos-containing materials which may be located behind hard plaster walls or ceilings, hard walled chases, under flooring or sub-flooring, under building contents, etc., were not assessed or quantified. If through demolition suspect materials are discovered that were not sampled during the initial site visit; Sierra should be notified to document any additional samples that may be required and handled accordingly.

This report is prepared to assist the Montgomery County Land Reutilization Corporation, City of Dayton, construction managers and asbestos abatement contractors in locating asbestos-containing materials. This report is not intended as a bidding document or project specifications.

Enclosed are the following Sierra documents: 1) Table 1-Bulk Sample Data Summary; 2) Table 2-Asbestos Inventory; 3) Table 3-Cost Estimate; 4) Laboratory Report; 5) Site Photographs; 6) Inspector's Certification. If we can be of further assistance on this or any other project, do not hesitate to call us at (513) 542-5323.

Sincerely,

SIERRA ENVIRONMENTAL GROUP, INC.



Todd Taylor
Operations Manager

Attachments



TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
The following samples were collected from the vacant residence located at 140 Fernwood Avenue, Dayton, Ohio.					
Cementitious siding (Miscellaneous)	Exterior	1	1-1	10% Chrysotile	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Entry	2	2-1	None Detected	Nonfriable
Skim coat of hard ceiling plaster (Surfacing, >5,000 sf)	Entry	2	2-2	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Living room	2	2-3	None Detected	Nonfriable
Skim coat of hard ceiling plaster (Surfacing, >5,000 sf)	Living room	2	2-4	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Kitchen	2	2-5	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	2	2-6	None Detected	Nonfriable
Skim coat of hard ceiling plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	2	2-7	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Entry	3	3-1	None Detected	Nonfriable
Brown coat of hard ceiling plaster (Surfacing, >5,000 sf)	Entry	3	3-2	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Living room	3	3-3	None Detected	Nonfriable
Brown coat of hard ceiling plaster (Surfacing, >5,000 sf)	Living room	3	3-4	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Kitchen	3	3-5	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	3	3-6	None Detected	Nonfriable
Brown coat of hard ceiling plaster (Surfacing, >5,000 sf)	Stairwell to 2nd floor	3	3-7	None Detected	Nonfriable
Drywall (Miscellaneous)	Entry	4	4-1	None Detected	Nonfriable
Drywall (Miscellaneous)	Rear entry	4	4-2	None Detected	Nonfriable

Table 1-1

TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
Joint compound (Miscellaneous)	Entry	5	5-1	*1.2% Chrysotile	Nonfriable
Joint compound (Miscellaneous)	Rear entry	5	5-2	Stopped Analysis	Nonfriable
White sheet flooring (Miscellaneous)	Kitchen	6	6-1	None Detected	Nonfriable
White sheet flooring (Miscellaneous)	Kitchen	6	6-2	None Detected	Nonfriable
Drywall behind hard ceiling plaster (Miscellaneous)	Kitchen	7	7-1	None Detected	Nonfriable
Drywall behind hard ceiling plaster (Miscellaneous)	Rear entry	7	7-2	None Detected	Nonfriable
12"x12" Old tan floor tile (Miscellaneous)	Rear entry	8	8-1	*1.2% Chrysotile	Nonfriable
12"x12" Old tan floor tile (Miscellaneous)	Rear entry	8	8-2	Stopped Analysis	Nonfriable
Blown-in insulation (Miscellaneous)	Rear entry	9	9-1	None Detected	Friable
Blown-in insulation (Miscellaneous)	Kitchen	9	9-2	None Detected	Friable
Black baseboard (Miscellaneous)	Rear entry	10	10-1	None Detected	Nonfriable
Black baseboard (Miscellaneous)	Breakfast nook	10	10-2	None Detected	Nonfriable
Mastic associated with black baseboard (Miscellaneous)	Rear entry	11	11-1	None Detected	Nonfriable
Mastic associated with black baseboard (Miscellaneous)	Breakfast nook	11	11-2	None Detected	Nonfriable
Yellow mastic associated with old 12" tan floor tile (Miscellaneous)	Rear entry	12	12-1	None Detected	Nonfriable
Yellow mastic associated with old 12" tan floor tile (Miscellaneous)	Rear entry	12	12-2	None Detected	Nonfriable
Grey flooring (Miscellaneous)	Bedroom #1	13	13-1	None Detected	Nonfriable

Table 1-2

TABLE 1: BULK SAMPLE DATA SUMMARY

SAMPLE DESCRIPTION (Material Type)	SAMPLE LOCATION	HOMO AREA #	SAMPLE I.D. NO.	ASBESTOS CONTENT	FRIABLE/ NONFRIABLE
Grey flooring (Miscellaneous)	Bedroom #2	13	13-2	None Detected	Nonfriable
Black mastic associated with 12" grey flooring (Miscellaneous)	Bedroom #1	14	14-1	None Detected	Nonfriable
Black mastic associated with 12" grey flooring (Miscellaneous)	Bedroom #2	14	14-2	None Detected	Nonfriable
9"x9" Tan floor tile (Miscellaneous)	Bathroom 2nd floor	15	15-1	None Detected	Nonfriable
9"x9" Tan floor tile (Miscellaneous)	Bathroom 2nd floor	15	15-2	None Detected	Nonfriable
Brown mastic associated with 9" tan floor tile (Miscellaneous)	Bathroom 2nd floor	16	16-1	None Detected	Nonfriable
Brown mastic associated with 9" tan floor tile (Miscellaneous)	Bathroom 2nd floor	16	16-2	None Detected	Nonfriable
Paper like material associated with 9" tan floor tile (Miscellaneous)	Bathroom 2nd floor	17	17-1	None Detected	Nonfriable
Paper like material associated with 9" tan floor tile (Miscellaneous)	Bathroom 2nd floor	17	17-2	None Detected	Nonfriable
Duct insulation (Thermal System Insulation)	Entry	18	18-1	95% Chrysotile	Friable
Heat shield (Thermal System Insulation)	Basement	19	19-1	30% Chrysotile	Friable
Window glaze (Miscellaneous)	Exterior	20	20-1	None Detected	Friable
Window glaze (Miscellaneous)	Exterior	20	20-2	None Detected	Friable
Black and white asphalt roof shingle (Miscellaneous)	Exterior	21	21-1	None Detected	Nonfriable
Black and white asphalt roof shingle (Miscellaneous)	Exterior	21	21-2	None Detected	Nonfriable

*Quantified By PLM Point Count Method

TABLE 2 - ASBESTOS INVENTORY

Location	Type ACM	Material Description	Amt. of Material (approx.)
The following asbestos-containing materials are located in the vacant residence located at 140 Fernwood Avenue, Dayton.			
Exterior	II	Cementitious siding	3,600 sf
Kitchen	II	Drywall and associated joint compound	430 sf
Breakfast room	II	Drywall and associated joint compound	360 sf
Breakfast room	I	12"x12" Tan floor tile, old	90 sf
Rear entry	II	Drywall and associated joint compound	245 sf
Rear entry	I	12"x12" Tan floor tile, old	50 sf
Basement	RACM	Duct insulation	10 sf
Basement	RACM	Heat shield	10 sf
Basement to 2nd floor	RACM	Duct insulation (concealed behind hard wall and ceiling plaster)	50 sf

Table 2-1

TABLE 3 - COST ESTIMATE

Location	Type ACM	Material Description	Cost for abatement (approx.)
The following asbestos-containing materials are located in the vacant residence located at 140 Fernwood Avenue, Dayton, Ohio.			
Exterior	II	Cementitious siding	\$7,200.00
Kitchen	II	Drywall and associated joint compound	\$1,720.00
Breakfast room	II	Drywall and associated joint compound	\$1,440.00
Breakfast room	I	12"x12" Tan floor tile, old (under linoleum)	\$500.00
Rear entry	II	Drywall and associated joint compound	\$250.00
Rear entry	I	12"x12" Tan floor tile, old (under linoleum)	\$500.00
Basement	RACM	Duct insulation	\$250.00
Basement	RACM	Heat shield	\$250.00
Basement to the 2nd floor	RACM	Duct insulation (concealed behind hard wall and ceiling plaster)	\$1,250.00

Table 3-1

CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736794 **Description / Location:** Off-White/Grey Transite
Client No.: 1-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

Lab No.: 5736795 **Description / Location:** White Plaster
Client No.: 2-1

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

Lab No.: 5736796 **Description / Location:** White Plaster
Client No.: 2-2

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

Lab No.: 5736797 **Description / Location:** White Plaster
Client No.: 2-3

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

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

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
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Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (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 (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) material. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Approved By:

Date: 9/16/2015

CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736798	Description / Location: White Plaster			
Client No.: 2-4				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736799	Description / Location: Off-White Plaster			
Client No.: 2-5				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736800	Description / Location: White Plaster			
Client No.: 2-6				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736801	Description / Location: White Plaster			
Client No.: 2-7				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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

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Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

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1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736802	Description / Location: Tan Plaster			
Client No.: 3-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

Lab No.: 5736803	Description / Location: Tan Plaster			
Client No.: 3-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

Lab No.: 5736804	Description / Location: Tan Plaster			
Client No.: 3-3				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

Lab No.: 5736805	Description / Location: Tan Plaster			
Client No.: 3-4				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

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Date: 9/16/2015



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1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736806	Description / Location: Tan Plaster			
Client No.: 3-5				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736807	Description / Location: Tan Plaster			
Client No.: 3-6				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

Lab No.: 5736808	Description / Location: Tan Plaster			
Client No.: 3-7				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

Lab No.: 5736809	Description / Location: White Sheetrock			
Client No.: 4-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

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

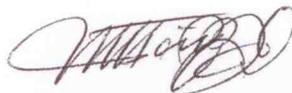
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Report No.: 373964
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736810	Description / Location: Tan/White Sheetrock			
Client No.: 4-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 5736811	Description / Location: White/LtTan Joint Compound			
Client No.: 5-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

Lab No.: 5736812	Description / Location: Sample Not Analyzed			
Client No.: 5-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
	Sample Not Analyzed		Sample Not Analyzed	

Lab No.: 5736813	Description / Location: White Vinyl Sheet Flooring			
Client No.: 6-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	78
		2	Fibrous Glass	

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

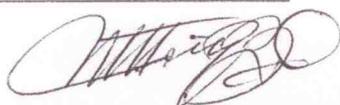
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Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736814	Description / Location: White Vinyl Sheet Flooring			
Client No.: 6-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	78
		2	Fibrous Glass	

Lab No.: 5736815	Description / Location: White Sheetrock			
Client No.: 7-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

Lab No.: 5736816	Description / Location: Tan/White Sheetrock			
Client No.: 7-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 5736817	Description / Location: Off-White/Lt Tan Floor Tile			
Client No.: 8-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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

Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (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 (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736818	Description / Location: Sample Not Analyzed			
Client No.: 8-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
Sample Not Analyzed			Sample Not Analyzed	

Lab No.: 5736819	Description / Location: Grey Fibrous			
Client No.: 9-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 5736820	Description / Location: Grey Fibrous			
Client No.: 9-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 5736821	Description / Location: Black Cove Base			
Client No.: 10-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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

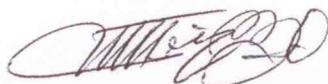
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Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (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 (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736822	Description / Location: Black Cove Base			
Client No.: 10-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736823	Description / Location: Brown Mastic			
Client No.: 11-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736824	Description / Location: Brown Mastic			
Client No.: 11-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736825	Description / Location: Tan Mastic			
Client No.: 12-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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

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Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (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 (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736826	Description / Location: Tan Mastic			
Client No.: 12-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 5736827	Description / Location: Off-White/Lt Grey Vinyl Sheet Flooring			
Client No.: 13-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

Lab No.: 5736828	Description / Location: Off-White/Lt Grey Vinyl Sheet Flooring			
Client No.: 13-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

Lab No.: 5736829	Description / Location: Brown Mastic			
Client No.: 14-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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

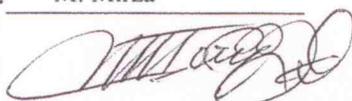
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Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (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 (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736830 **Description / Location:** Brown Mastic
Client No.: 14-2

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

Lab No.: 5736831 **Description / Location:** Tan Floor Tile
Client No.: 15-1

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

Lab No.: 5736832 **Description / Location:** Tan Floor Tile
Client No.: 15-2

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

Lab No.: 5736833 **Description / Location:** Black Felt
Client No.: 16-1

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Cellulose	25

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

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Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (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 (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736834	Description / Location: Black Felt			
Client No.: 16-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Cellulose	25

Lab No.: 5736835	Description / Location: Tan Paper			
Client No.: 17-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 5736836	Description / Location: Tan Paper			
Client No.: 17-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 5736837	Description / Location: Off-White Insulation			
Client No.: 18-1				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
95	Chrysotile	None Detected	None Detected	5

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.:	Description / Location:			
5736838	Lt Grey Insulation			
Client No.:	19-1			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
30	Chrysotile	40	Cellulose	30
<hr/>				
Lab No.:	5736839			
Client No.:	20-1			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100
<hr/>				
Lab No.:	5736840			
Client No.:	20-2			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100
<hr/>				
Lab No.:	5736841			
Client No.:	21-1			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

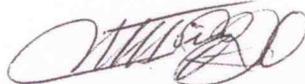
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Analysis Performed By: M. Mirza

Date: 9/16/2015



CERTIFICATE OF ANALYSIS

Client: Sierra Environmental Group Inc
1041 Straight Street
Cincinnati OH 45214

Report Date: 9/16/2015
Report No.: 373964
Project: 140 Fernwood
Project No.: MCLB.001

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5736842	Description / Location: White/Black Roof Material			
Client No.: 21-2				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Cellulose	75

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analysis Performed By: M. Mirza

Date: 9/16/2015



Chain of Custody

-Bulk Asbestos -

Contact Information	
Client Company: <u>Sierra</u>	Project Number: <u>MCLB.001</u>
Office Address: <u>1041 Straight St.</u>	Project Name: <u>140 Fernwood</u>
City, State, Zip: <u>Cinc. OH 45214</u>	Primary Contact: <u>T. Taylor</u>
Fax Number: _____	Office Phone: _____
Email Address: <u>tt@sierra@hsc.net</u>	Cell Phone: _____

PLM Instructions:

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009

EMAILED
9/17/15

- PLM: Point Counting
 - PC: via ELAP 198.1
 - PC: 400 Points
 - PC: 800 Points *
 - PC: 1600 Points *
- 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
- PLM: Analyze Until Positive (Positive Stop)
 - AUP: by Homogenous Area as Noted
 - AUP: by Material Type as Noted
 - PLM: NOB via 198.6
 - PLM: Friable via EPA 600 2.3
 - If <1% by PLM, to TEM via 198.4 *
 - If <1% by PLM, Hold for Instructions
 - PLM: Non-Building Material *** (Dust, Wipe, Tape)
 - Soil or Vermiculite Analysis
 - CARB 435

Special Instructions: _____

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

Turnaround Time

Preliminary Results Requested Date: _____

Verbal Email Fax L/15

Specific date / time

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

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

Chain of Custody

Relinquished (Name/Organization): <u>ACI</u>	Date: <u>9-11-15</u>	Time: _____
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: <u>9/16/15</u>	Time: _____
Analysis(Name(s) / iATL): <u>mm</u>	Date: <u>9/16/15</u>	Time: _____
QA/QC Review (Name / iATL): _____	Date: _____	Time: <u>SEP 14 2015</u>
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____

RECEIVED

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () E-mail: itsierra@fuse.net
 Project Name / Testing Address: MCLB. 001 - 140 Fernwood City/State (Required):
 Collected by: Todd Taylor Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*
 1 - Day 2 - Day 3 - Day Same Day (Must Call Ahead) Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS	
			PLM	PLM Point Count 400	PLM N Protocol	PCM	TEM Charred (Bak)	TEM/HERA (Air)	Time On	Time Off	Flow Rate (L/min)		Total Time (min)
1	1-1	9-11-15	-	-	-	-	-	-	-	-	-	5736794	
2	2-1		-	-	-	-	-	-	-	-	-	5736795	
3	2-2		-	-	-	-	-	-	-	-	-	5736796	
4	2-3		-	-	-	-	-	-	-	-	-	5736797	
5	2-4		-	-	-	-	-	-	-	-	-	5736798	
6	2-5		-	-	-	-	-	-	-	-	-	5736799	
7	2-6		-	-	-	-	-	-	-	-	-	5736800	
8	2-7		-	-	-	-	-	-	-	-	-	5736801	
9	3-1		-	-	-	-	-	-	-	-	-	5736802	
10	3-2		-	-	-	-	-	-	-	-	-	5736803	

Released by: T. Taylor Signature: [Signature] Date/Time:
 Received by: Signature: Date/Time:

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () E-mail: tsierra@fuse.net
 Project Name / Testing Address: MCLB. 001 - City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number: _____

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

1 - Day _____ 2 - Day 2 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			Volume (Total Liters)	COMMENTS
			PLM	PLM Count 40	PLM Count 100	PLM % Protocol	PCM	TEM Counted (Bals)	TEM AHERA (Air)	Time On	Time Off		
1	3-3	9-11-15	-									5736804	
2	3-4		-									5736805	
3	3-5		-									5736806	
4	3-6		-									5736808	
5	3-7		-									5736809	
6	4-1		-									5736810	
7	4-2		-									5736811	
8	5-1		-									5736812	
9	5-2		-									5736813	
10	6-1		-										

At 1st position
 At 1st position
 At 1st position

Released by: T. Taylor Signature: [Signature] Date/Time: _____
 Received by: _____ Signature: _____ Date/Time: _____

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () _____ E-mail: ttsierra@fuse.net
 Project Name / Testing Address: MCLB.001- City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number: _____

Turn Around Times : 3 - Day 2 - Day 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			Volume (Total Liters)	COMMENTS
			PLM	PLM Post (Count 100)	PLM Pre (Count 100)	PLM	TEM Certified (Bulk)	TEM Albers (Air)	Time On	Time Off	Flow Rate (L/min)		
1	6-2	9-11-15	-									5736814	↓
2	7-1	↓	-									5736815	Sp at 1 st position
3	7-2		-									5736816	↓
4	8-1		-									5736817	Sp at 1 st position
5	8-2		-									5736818	↓
6	9-1		-									5736819	Sp at 1 st position
7	9-2		-									5736820	↓
8	10-1		-									5736821	Sp at 1 st position
9	10-2		-									5736822	↓
10	11-1		↓	-								5736823	Sp at 1 st position

Released by: T. Taylor Signature: [Signature] Date/Time: _____
 Received by: _____ Signature: _____ Date/Time: _____

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () _____ E-mail: tsierra@fuse.net

Project Name / Testing Address: MCLB. 001 - City/State (Required): _____

Collected by: Todd Taylor Purchase Order Number: _____
 Turn Around Times: 1 - Day 2 - Day 3 - Day 2 - Day 3 - Day
 Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead) _____

Turn Around Times : If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.

No.	Client Sample ID	Date Collected	ASBESTOS							AIR			Volume (Total Liters)	COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM N/ Protocol	PCM	TEM Certified (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)		
1	11-2	9-11-15	-									5736824		↓ Sp at 1 st position
2	12-1		-									5736825		↓ Sp at 1 st position
3	12-2		-									5736826		↓ Sp at 1 st position
4	13-1		-									5736827		↓ Sp at 1 st position
5	13-2		-									5736828		↓ Sp at 1 st position
6	14-1		-									5736829		↓ Sp at 1 st position
7	14-2		-									5736830		↓ Sp at 1 st position
8	15-1		-									5736831		↓ Sp at 1 st position
9	15-2		-									5736832		↓ Sp at 1 st position
10	16-1		-									5736833		↓ Sp at 1 st position

Released by: T. Taylor Signature: [Signature]
 Received by: _____ Signature: _____

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214
 Phone: (513) 542-5323 Fax: () E-mail: tsierra@fuse.net

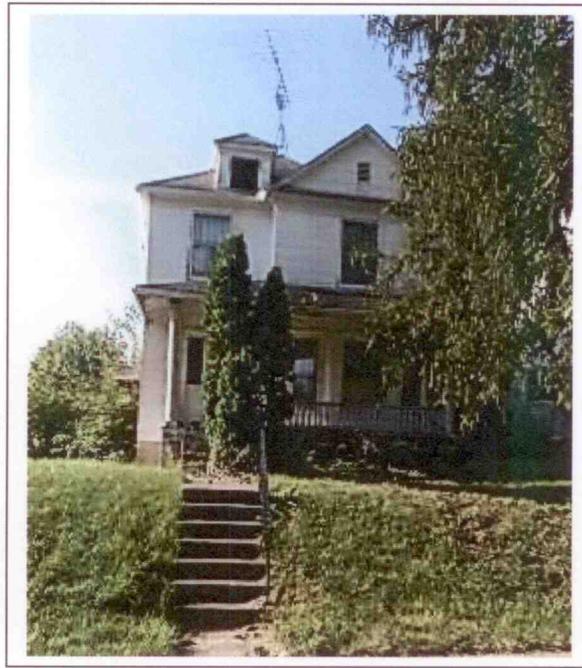
Project Name / Testing Address: MCLB.001- City/State (Required): _____
 Collected by: Todd Taylor Purchase Order Number: _____

Turn Around Times: **If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.**

_____ 1 - Day _____ 2 - Day _____ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS		
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM by Protocol	PCM	TEM Certified (Bulk)	TEM AHERA (Air)	Time On	Time Off		Flow Rate (L/min)	Total Time (minutes)
1	16-2	9-11-15	-	-	-	-	-	-	-	-	-	5736834	5736834	↓
2	17-1		-	-	-	-	-	-	-	-	-	5736835	5736835	Stop at 1 st position
3	17-2		-	-	-	-	-	-	-	-	-	5736836	5736836	↓
4	18-1		-	-	-	-	-	-	-	-	-	5736837	5736837	City & State
5	19-1		-	-	-	-	-	-	-	-	-	5736838	5736838	etc
6	20-1		-	-	-	-	-	-	-	-	-	5736839	5736839	Stop at 1 st position
7	20-2		-	-	-	-	-	-	-	-	-	5736840	5736840	↓
8	21-1		-	-	-	-	-	-	-	-	-	5736841	5736841	Stop at 1 st position
9	21-2	✓	-	-	-	-	-	-	-	-	-	5736842	5736842	↓
10														

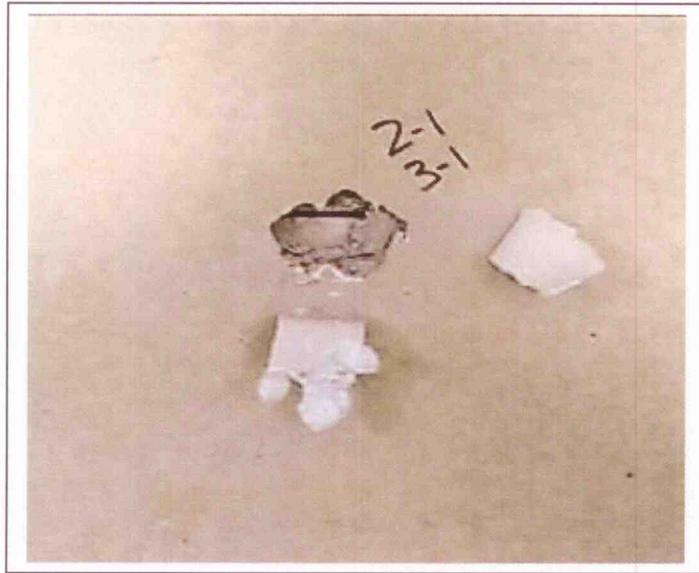
Released by: T. Taylor Signature: [Signature] Date/Time: _____
 Received by: _____ Signature: _____ Date/Time: _____



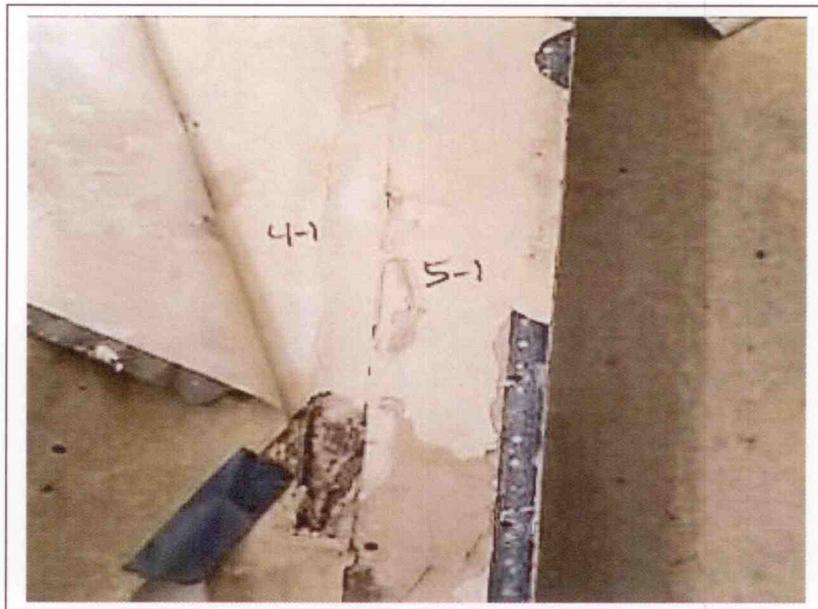
140 Fernwood Avenue, Dayton, Ohio 45405



HA #1 – Cementitious siding



HA #2 & #3 – Hard wall and ceiling plaster



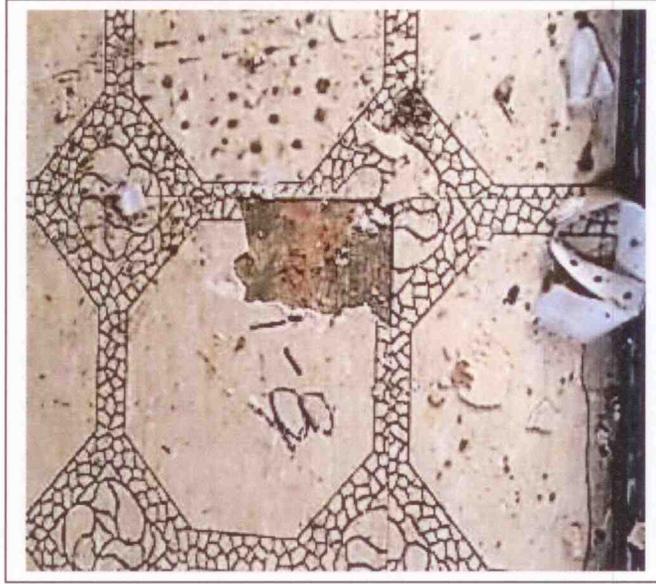
HA #4 & #5 – Drywall and associated joint compound



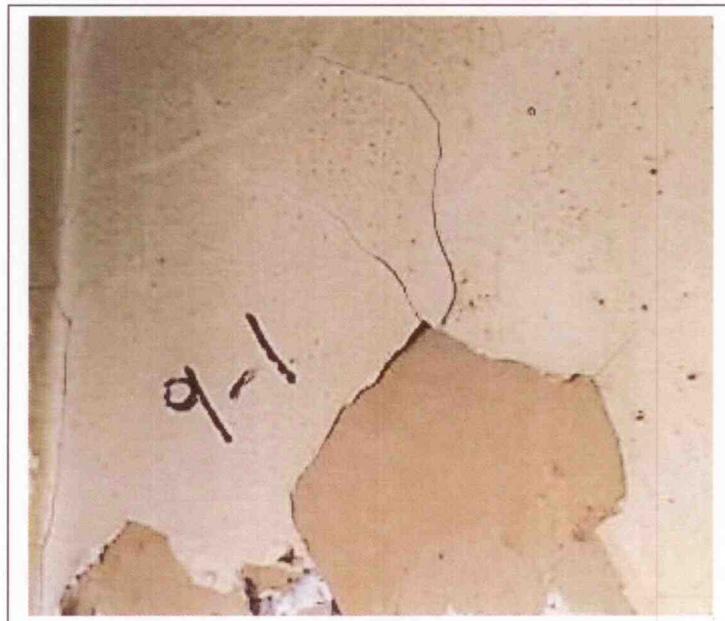
HA #6 – White sheet flooring



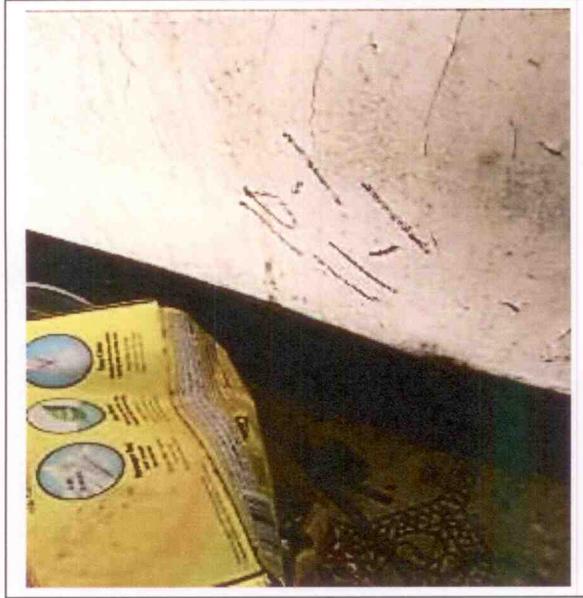
HA #7 – Drywall behind hard wall plaster



HA #8 & #12 – 12” Tan floor tile associated with yellow mastic



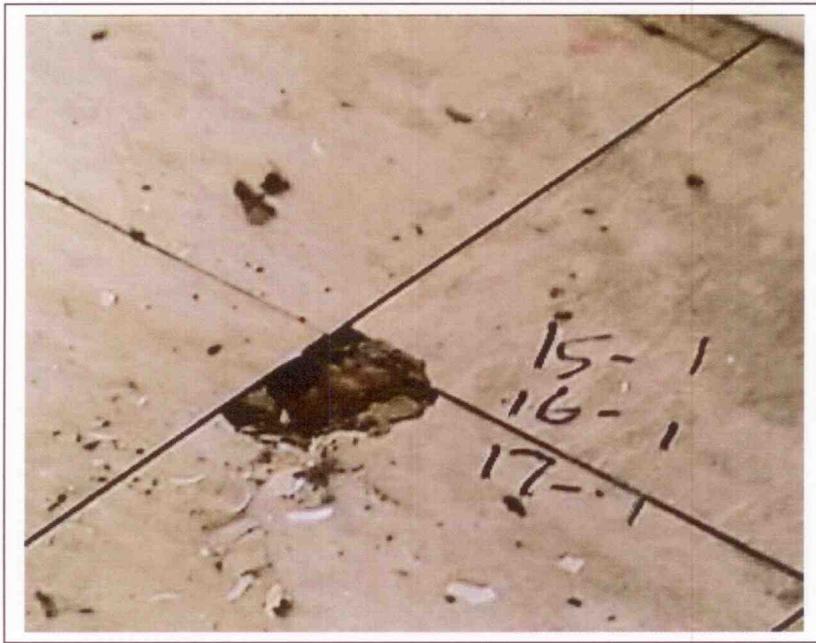
HA #9 – Blown-in insulation



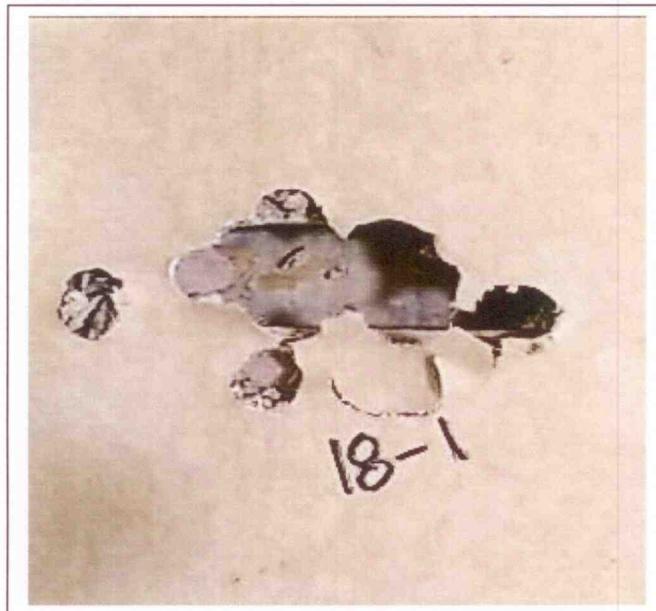
HA #10 & #11 – Black baseboard and associated yellow mastic



HA #13 – Grey flooring and associated black mastic



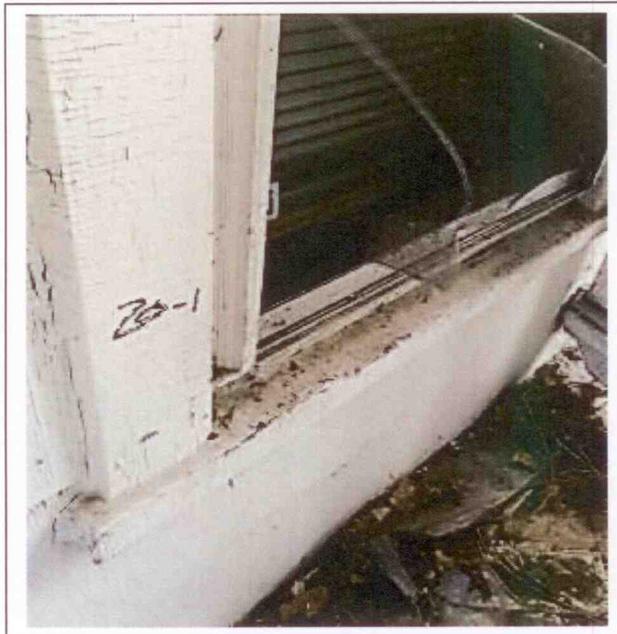
HA #15, #16 & #17 – 9” Tan floor tile, mastic and paper material



HA #18 – Duct insulation concealed behind hard wall plaster



HA #19 – Heat shield



HA #20 – Window glaze



HA #21 – Black and white asphalt roof shingle



OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

614/466-3543
www.odh.ohio.gov

John R. Kasich/Governor

Richard Hodges/Director of Health

October 23, 2014

Charles F Callahan
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES31960
Expiration Date: 10/20/2015

Dear Charles F Callahan:

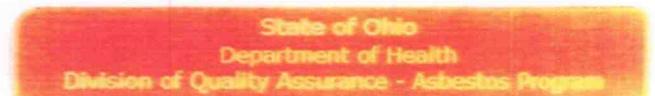
This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Charlene W. Valentine, Licensure Specialist, at 614-644-0226.

Sincerely,

David Holston, Chief
Environmental Abatement Section
Bureau of Information and Operational Support
Division of Quality Assurance



Asbestos Hazard Evaluation Specialist



Charles F Callahan
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

Certification Number **ES31960** Expiration Date **10/20/2015**

DOB: 11/07/1969

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3711-34 of the Ohio Administrative Code. Certification Card is not valid if altered.

OHIO DEPARTMENT OF HEALTH

340 East Ninth Street
Columbus, Ohio 43229

614/466-3543
www.odh.ohio.gov

11750 E. 12th Avenue/Governor

Richard Hodges/Director of Health

May 12, 2015

Todd E. Taylor
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES32139
Expiration Date: 05/19/2016

Dear Todd E Taylor:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of Health for violation of any of the requirements of 3701-34 of the Ohio Administrative Code.

If you have any questions, please call Kathy Butcher, Licensure Specialist, at 614-644-0226.

Sincerely,



Bill Robbins, Section Chief
Bureau of Licensure Operations
Office of Health Assurance and Licensing

State of Ohio
Department of Health
Asbestos Program

Asbestos Hazard Evaluation Specialist



Todd E Taylor
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

Certification Number: **ES32139** Expiration Date: **05/19/2016**

DOB: 07/23/1967

This certification is issued pursuant to Chapter 3710 of the Revised Code and 3701.14 of the Ohio Administrative Code.

Certification Card is not valid if altered.

As Equal Opportunity Employer/Provider