SIERRA ENVIRONMENTAL GROUP, INC.

May 26, 2017

Mr. Jeff Ranck
Development Director
Butler Metropolitan Housing Authority
4110 Hamilton-Middletown Road
Hamilton, Ohio 45011-6218
(513) 623-0329

Re: Limited Pre-Renovation Asbestos Inspection
Townhomes West
1930 Vance Street
Middletown, Ohio 45044
Sierra Project Number: BMHA.025

Dear Mr. Ranck:

On May 10, 2017, Mr. Chuck Callahan (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES31960) of Sierra Environmental Group, Inc. (Sierra) visited the water damaged areas located at 1930 Vance Street at Townhomes West, Middletown, Ohio. The purpose of this visit was to conduct a limited asbestos inspection of the water damaged areas in preparation for renovation as required by Section 61.145 (a) of the November 20, 1990, National Emission Standards for Hazardous Air Pollutants (NESHAP); Asbestos NESHAP Revision, Final Rule issued by the Environmental Protection Agency. This process includes a visual inspection of the property, as well as the collection and analyses of samples of materials suspect for containing asbestos.

During the survey, the samples were collected utilizing sampling methods outlined in current EPA Guidance Documents and U.S. EPA regulation 40 CFR Part 763.86. 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 drywall, joint compound, baseboards and associated baseboard mastics. Sierra did not identify asbestos-containing materials within the water damaged areas. Sierra did identify joint compound with asbestos concentrations <1%. The Occupational Safety and Health Administration (OSHA) regulates building materials that contain <1% asbestos. The <1% asbestos materials must be removed by wet methods, prompt clean-up and disposal of materials as asbestos-containing in leak-proof containers and perform an exposure assessment of personnel performing work activities.

Enclosed are the following Sierra documents: 1) Table 1-Limited Bulk Sample Data Summary; 2) Laboratory Report and 3) 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.

Chuck Callahan
Vice President

Attachments

TABLE 1: LIMITED 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 water damaged areas located at 1930 Vance, Townhomes West in Middletown, Ohio.					
Drywall (Miscellaneous)	Living room, Wall A	1	1-1	None Detected	Friable
Drywall (Miscellaneous)	Kitchen closet ceiling	1	1-2	None Detected	Friable
Joint compound (Miscellaneous)	Living room, Wall A	2	2-1	*0.75% Chrysotile	Friable
Joint compound (Miscellaneous)	Kitchen closet ceiling	2	2-2	*0.5% Chrysotile	Friable
Black baseboard (Miscellaneous)	Living room, Wall A	3	3-1	None Detected	Nonfriable
Black baseboard (Miscellaneous)	Living room, Wall B	3	3-2	None Detected	Nonfriable
Mastic associated with black baseboard (Miscellaneous)	Living room, Wall A	4	4-1	None Detected	Nonfriable
Mastic associated with black baseboard (Miscellaneous)	Living room, Wall B	4	4-2	None Detected	Nonfriable

* - Analyzed by PLM Point Count Method

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 17-05-01440

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 05/11/2017
Analyzed Date: 05/11/2017
Reported Date: 05/12/2017

Project/Test Address: BMHA.025; Middletown, OH

Client Number:
36-6195

Fax Number:
513-542-6653

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
17-05-01440-001	1-1		White Powdery; Homogeneous	NAD	3% Cellulose 5% Fibrous Glass 92% Non-Fibrous
17-05-01440-002	1-2		White Powdery; Homogeneous	NAD	3% Cellulose 5% Fibrous Glass 92% Non-Fibrous
17-05-01440-003	2-1		Tan Granular; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	**2%**	
17-05-01440-004	2-2			Did Not Analyze (Positive Stop)	
17-05-01440-005	3-1		Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
17-05-01440-006	3-2		Black Vinyl; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 36-6195 **Report Number:** 17-05-01440
Project/Test Address: BMHA.025; Middletown, OH

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
17-05-01440-007	4-1		Cream Adhesive; Homogeneous	NAD	100% Non-Fibrous
17-05-01440-008	4-2		Cream Adhesive; Homogeneous	NAD	100% Non-Fibrous

QC Sample: 90-M22014-4
QC Blank: SRM 1866 Fiberglass
Reporting Limit: 1% Asbestos
Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020
Analyst: Sami Hosn

Reviewed By Authorized Signatory: Howard D. Varner

Howard Varner
General Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

Analyst Signature Page

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Report Number: 17-05-01440

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Client Number: 36-6195

Received Date: 05/11/2017
Analyzed Date: 05/11/2017
Reported Date: 05/12/2017

Project/Test Address: BMHA.025; Middletown, OH

Analyst(s)

Sami Hosn

8 PLM

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA 23237

Asbestos Chain-of-Custody

17-05-01440

Due Date:
05/12/2017
(Friday)
AE M Inv S

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, OH 45214

Phone: (513) 542-5323 Fax:( ) E-mail: Acct. Number: 36-6195

Project Name / Testing Address: BMHA.025 **City/State (Required):** Middletown, OH

Collected by: Chk Collh Purchase Order Number:

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

X **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 NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	1-1	5-10-17	X												Stop 1st Posh
2	1-2		X												
3	2-1		X												Stop 1st Posh
4	2-2		X												
5	3-1		X												Stop 1st Posh
6	3-2		X												
7	4-1		X												Stop 1st Posh
8	4-2		X												
9															
10															

Released by: Chk Collahan	Signature:	Date/Time: 5-10-17
Received by: GREG	Signature:	Date/Time: 5/11/17

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos 400 Point Count Analysis Report

Report Number: 17-05-01594

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 05/11/2017
Analyzed Date: 05/11/2017
Reported Date: 05/12/2017

Project/Test Address: BMHA.025; Middletown, OH; EHS# 17-05-01440

Client Number:
36-6195

Fax Number:
513-542-6653

Laboratory Results

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID
17-05-01594-001	2-1	Tan Granular	0.75 % Chrysotile	
17-05-01594-002	2-2	Tan Granular	0.50 % Chrysotile	

Reporting Limit: 0.25 % Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Sami Hosn

Reviewed By Authorized Signatory:

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172.

LEGEND NAD = No Asbestos Detected

Analyst Signature Page

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Report Number: 17-05-01594

Client: Sierra Environment Group Inc.
1041 Straight Street
Cincinnati, OH 45214

Received Date: 05/11/2017
Analyzed Date: 05/11/2017
Reported Date: 05/12/2017

Client Number: 36-6195

Project/Test Address: BMHA.025; Middletown, OH; EHS# 17-05-01440

Analyst(s)

Sami Hosn

EHS Laboratories

POINT COUNT REQUEST FORM

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

17-05-01594

Due Date:
05/12/2017
(Friday)
AE M Inv

Received Date: 05/11/2017
Client #: 36-6195
Company Name: Sierra Environment Group Inc.
Project/Test Address: BMHA.025; Middletown, OH; EHS# 17-05-01440
Analysis Requested: 400 PtCt.

Client Sample #	EHS Sample #	Sample Location and/or Comments
2-1	17.05.01440.003	
2-2	004	

Date Samples Received	Received By	Original Analyst	Date Analyzed	Date Request Received	Received By
5/11/17	Greg	Sami	5/11/17	5/11/17	Tiffany

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

November 08, 2016

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

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES31960
Expiration Date: 11/13/2017

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 Adminstrative Code.

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

Sincerely,

Bill Robbins

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