



SIERRA ENVIRONMENTAL GROUP, INC.

December 14, 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
434 Burleigh Avenue
Dayton, Ohio 45417
Sierra Project Number: MCLB.003

Dear Mr. Zimmer:

On December 4, 2015, Mr. Chris Kuettner (Ohio Department of Health Certified Asbestos Hazard Evaluation Specialist #ES33689) of Sierra Environmental Group, Inc. (Sierra) visited the vacant residence located at 434 Burleigh 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, roofing materials, flooring materials, window caulk, blown-in insulation and duct insulation. One (1) asbestos-containing material was identified within the residence scheduled for demolition (Table -2 Asbestos Inventory). The cost to remove the Regulated Asbestos-Containing Materials (RACM) from this site prior to demolition would be \$2,275.00. 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) Floor Plans; 6) Site Photographs and 7) 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 434 Burleigh Avenue, Dayton, Ohio.					
Black asphalt roof shingle (Miscellaneous)	Exterior	1	1-1	None Detected	Nonfriable
Black asphalt roof shingle (Miscellaneous)	Exterior	1	1-2	None Detected	Nonfriable
Window caulk (Miscellaneous)	Exterior	2	2-1	None Detected	Nonfriable
Window caulk (Miscellaneous)	Exterior	2	2-2	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, <1,000 sf)	Basement stairwell	3	3-1	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, <1,000 sf)	Basement stairwell	3	3-2	None Detected	Nonfriable
Skim coat of hard wall plaster (Surfacing, <1,000 sf)	Basement stairwell	3	3-3	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, <1,000 sf)	Basement stairwell	4	4-1	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, <1,000 sf)	Basement stairwell	4	4-2	None Detected	Nonfriable
Brown coat of hard wall plaster (Surfacing, <1,000 sf)	Basement stairwell	4	4-3	None Detected	Nonfriable
Drywall (Miscellaneous)	Kitchen	5	5-1	None Detected	Nonfriable
Drywall (Miscellaneous)	Bathroom	5	5-2	None Detected	Nonfriable
Joint compound (Miscellaneous)	Kitchen	6	6-1	None Detected	Nonfriable
Joint compound (Miscellaneous)	Bathroom	6	6-2	None Detected	Nonfriable
Textured ceiling, flower pattern (Surfacing, <1,000 sf)	Living room	7	7-1	None Detected	Nonfriable
Textured ceiling, flower pattern (Surfacing, <1,000 sf)	Stairwell to 2nd floor	7	7-2	None Detected	Nonfriable
Textured ceiling, flower pattern (Surfacing, <1,000 sf)	Stairwell to 2nd floor	7	7-3	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
Textured wall, rough (Surfacing, <1,000 sf)	Rear bedroom	8	8-1	None Detected	Nonfriable
Textured wall, rough (Surfacing, <1,000 sf)	Rear bedroom	8	8-2	None Detected	Nonfriable
Textured wall, rough (Surfacing, <1,000 sf)	Rear bedroom	8	8-3	None Detected	Nonfriable
Blown-in insulation (Miscellaneous)	Hallway	9	9-1	None Detected	Friable
Blown-in insulation (Miscellaneous)	Hallway	9	9-2	None Detected	Friable
Duct insulation (Thermal System Insulation)	Basement	10	10-1	55% Chrysotile	Friable

TABLE 2 - ASBESTOS INVENTORY

Location	Type ACM	Material Description	Amt. of Material (approx.)
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The following asbestos-containing materials are located in the vacant residence located at 434 Burleigh Avenue, Dayton.

Basement	RACM	Duct insulation	20 sf
Basement to 2nd floor	RACM	Duct insulation (concealed behind hard wall and ceiling plaster)	75 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 434 Burleigh Avenue, Dayton.			
Basement	RACM	Duct insulation	\$400.00
Basement to 2nd floor	RACM	Duct insulation (concealed behind hard wall and ceiling plaster)	\$1,875.00



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

Asbestos Bulk Analysis Report

Report Number: 15-12-00876

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

Received Date: 12/08/2015
Analyzed Date: 12/10/2015
Reported Date: 12/10/2015

Project/Test Address: MCLB.003-434 Burleigh Ave.

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
15-12-00876-001	1-1		Gray/Green Aggregate; Black Tar-Like; Inhomogeneous	NAD	20% Fibrous Glass 80% Non-Fibrous
15-12-00876-002	1-2		Gray/Green Aggregate; Black Tar-Like; Inhomogeneous	NAD	20% Fibrous Glass 80% Non-Fibrous
15-12-00876-003	2-1		Tan Brittle; Homogeneous	NAD	100% Non-Fibrous
15-12-00876-004	2-2		Tan Brittle; Homogeneous	NAD	100% Non-Fibrous
15-12-00876-005	3-1		Silver/Green Paint-Like; White Granular; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 36-6195

Report Number: 15-12-00876

Project/Test Address: MCLB.003-434 Burleigh Ave.

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-12-00876-006	3-2		Silver/Green Paint-Like; White Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-007	3-3		Silver/Green Paint-Like; White Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-008	4-1		Brown Granular; Homogeneous	NAD	2% Hair 98% Non-Fibrous
15-12-00876-009	4-2		Brown Granular; Homogeneous	NAD	2% Hair 98% Non-Fibrous
15-12-00876-010	4-3		Brown Granular; Homogeneous	NAD	2% Hair 98% Non-Fibrous
15-12-00876-011	5-1		White Powdery; Brown Fibrous; Inhomogeneous	NAD	15% Cellulose 5% Fibrous Glass 80% Non-Fibrous
15-12-00876-012	5-2		White Powdery; Brown Fibrous; Inhomogeneous	NAD	15% Cellulose 5% Fibrous Glass 80% Non-Fibrous
15-12-00876-013	6-1		White Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 36-6195

Report Number: 15-12-00876

Project/Test Address: MCLB.003-434 Burleigh Ave.

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-12-00876-014	6-2		White Granular; Homogeneous	NAD	100% Non-Fibrous
15-12-00876-015	7-1		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-016	7-2		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-017	7-3		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-018	8-1		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-019	8-2		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-020	8-3		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous
15-12-00876-021	9-1		Brown Fibrous; Homogeneous	NAD	95% Cellulose 5% Non-Fibrous

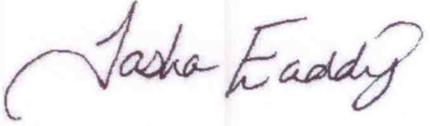
Environmental Hazards Services, L.L.C

Client Number: 36-6195
Project/Test Address: MCLB.003-434 Burleigh Ave.

Report Number: 15-12-00876

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-12-00876-022	9-2		Brown Fibrous; Homogeneous	NAD	95% Cellulose 5% Non-Fibrous
15-12-00876-023	10-1		Gray Fibrous; Homogeneous	55% Chrysotile	25% Cellulose 20% Non-Fibrous
Total Asbestos: 55%					

QC Sample: 79-M22012-1
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: 

Tasha Eaddy
QA/QC Clerk

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: 15-12-00876

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1041 Straight Street
Cincinnati, OH 45214

Received Date: 12/08/2015

Analyzed Date: 12/10/2015

Reported Date: 12/10/2015

Client Number: 36-6195

Project/Test Address: MCLB.003-434 Burleigh Ave.

Analyst(s)

A handwritten signature in black ink that reads "Sami Hosn". The signature is written in a cursive style.

Sami Hosn

23 PLM



Environmental Hazards Services, LLC

Asbestos Chain-of-Custody

15-12-00876



Due Date:
12/11/2015
(Friday)
AE M Inv

www.leadlab.com 7469 Whitepine Rd
(800)347-4010 Richmond, VA
(804)275-4907 (fax) 23237

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street
Phone: (513) 542-5323 Fax: (513) 542-6653 E-mail:
Project Name / Testing Address: McLBB-003-434 Burlingame Ave City/State (Required):
Collected by: Chris Kustman Purchase Order Number:

City/State/Zip: Cincinnati, Ohio 45214
Acct. Number: 36-6195

Turn Around Times: X 1 - Day 3 2 - Day 3 3 - Day
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 Point Count 400	PLM Point Count 1000	PLM N/Preval	PCM	TEM Confid (Bulk)	TEMAHERA (Air)	Time On	Time Off	Flow Rate (L/min)			Total Time (minutes)
1	1.1	12/15												Stop 9/1st + (SAP) → SAP → SAP → SAP → SAP
2	1.2													
3	2.1													
4	2.2													
5	3.1													
6	3.2													
7	3.3													
8	4.1													
9	4.2													
10	4.3													

Released by: Chris Kustman Date/Time: 12/4/15/5
Received by: STONE Date/Time: 12/8/15

Signature: [Signature]
Signature: [Signature]



Environmental Hazards Services, LLC

www.leadlab.com

7469 Whitepine Rd
Richmond, VA 23237

Asbestos Chain-of-Custody

876
~ For Lab Use Only ~

Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street
 Phone: (513) 542-5323 Fax: (513) 542-6653
 Project Name / Testing Address: MCLB-003-SAR City/State (Required):
 Collected by: Chris Kustner Purchase Order Number: _____

City/State/Zip: Cincinnati, Ohio 45214

Acct Number: 36-6195

Turn Around Times: 1 - Day 2 - Day X - Day _____ 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 Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Confid (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)			Total Time (minutes)
1	S.1	12.4.15												SAP
2	S.2													SAP
3	G.1													SAP
4	G.2													SAP
5	T.1.1													SAP
6	T.1.2													SAP
7	T.1.3													SAP
8	8.1													SAP
9	8.2													SAP
10	8.15													SAP

Released by: Chris Kustner Signature: _____ Date/Time: 12.4.15 15
 Received by: STONE Signature: _____ Date/Time: 12/8/15



Asbestos Chain-of-Custody

Environmental Hazards Services, LLC

www.leadlab.com 7489 Whitepine Rd
 (800)347-4070 Richmond, VA
 (804)275-4907 (fax) 23237

876
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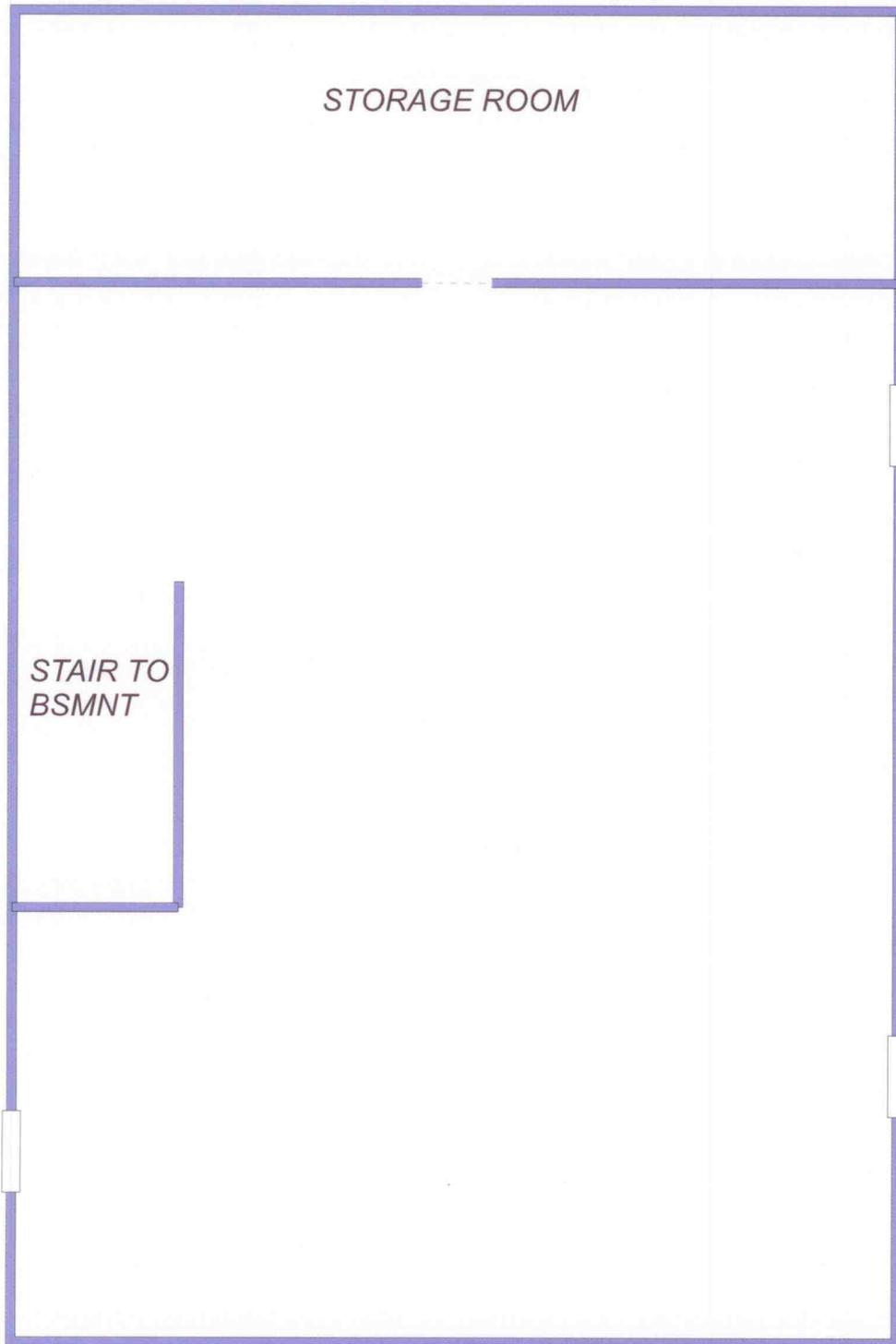
Company Name: Sierra Environmental Group, Inc. Address: 1041 Straight Street City/State/Zip: Cincinnati, Ohio 45214
 Phone: (513) 542-5323 Fax: (513) 542-6653 E-mail: _____ Acct. Number: 36-6195
 Project Name / Testing Address: MCLB-003 - SAMP City/State (Required): _____
 Collected by: Davis Kustner Purchase Order Number: _____

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

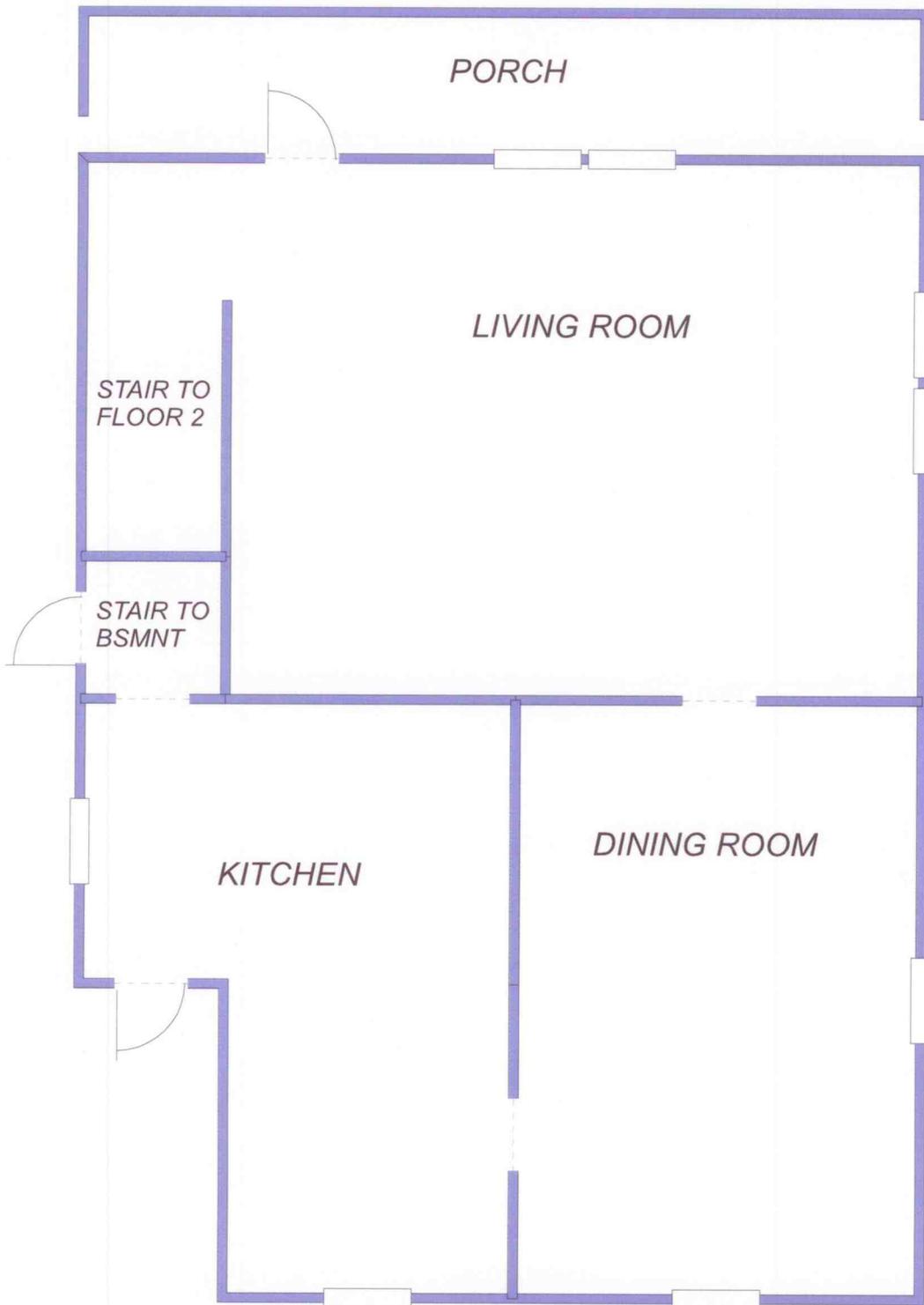
No.	Client Sample ID	Date Collected	ASBESTOS						AIR			Volume (Total Liters)	COMMENTS	
			PLM Count 400	PLM Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)			Total Time (minutes)
1	8.1	12.15	X											SAP
2	9.2	1												
3	10.1													
4														
5														
6														
7														
8														
9														
10														

Released by: Davis Kustner Signature: _____ Date/Time: 12.4.15
 Received by: STONE Signature: _____ Date/Time: 12/18/15

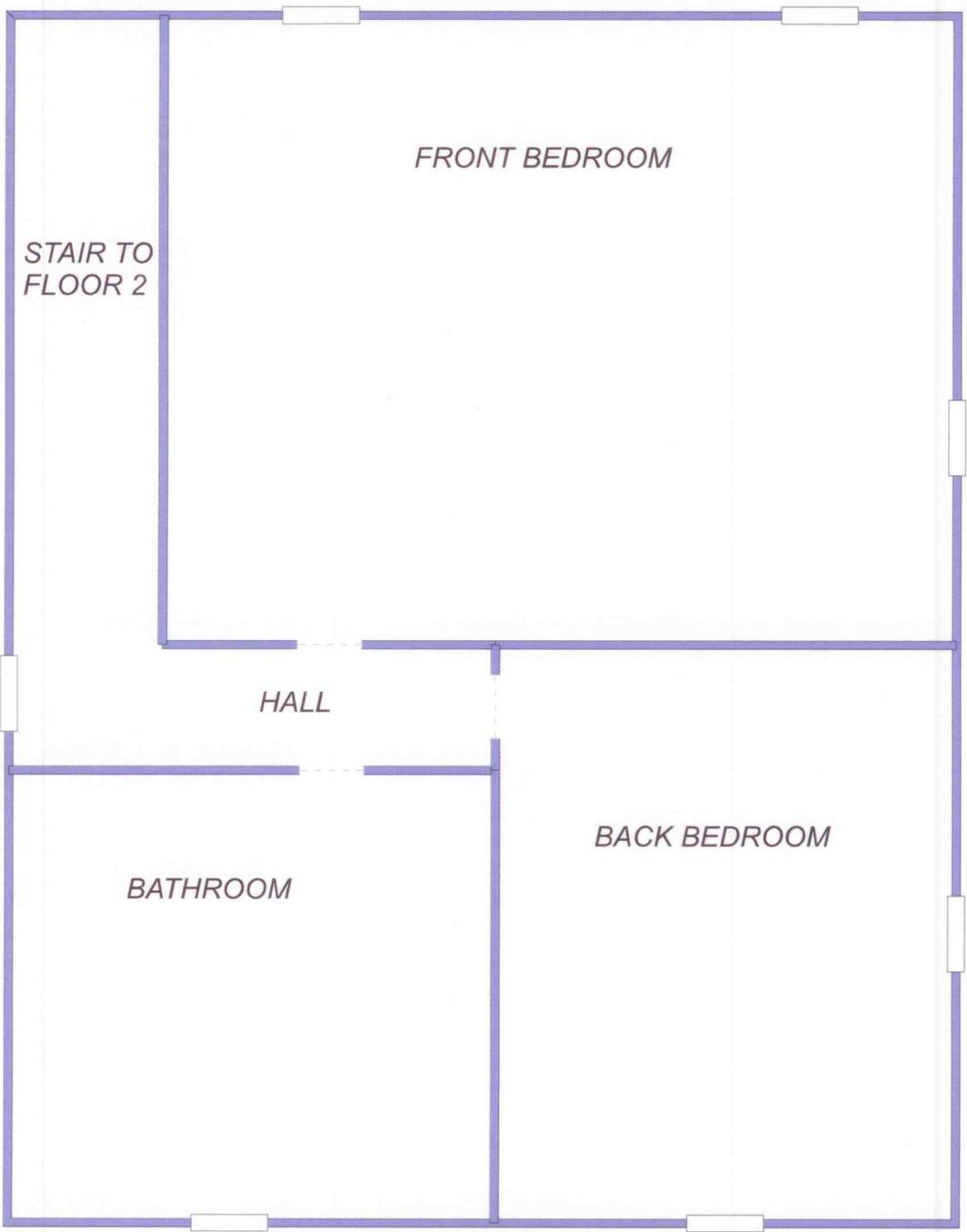
434 BURLEIGH AVENUE
BASEMENT



*434 BURLEIGH AVENUE
FIRST FLOOR*



434 BURLEIGH AVENUE
SECOND FLOOR



FRONT BEDROOM

STAIR TO
FLOOR 2

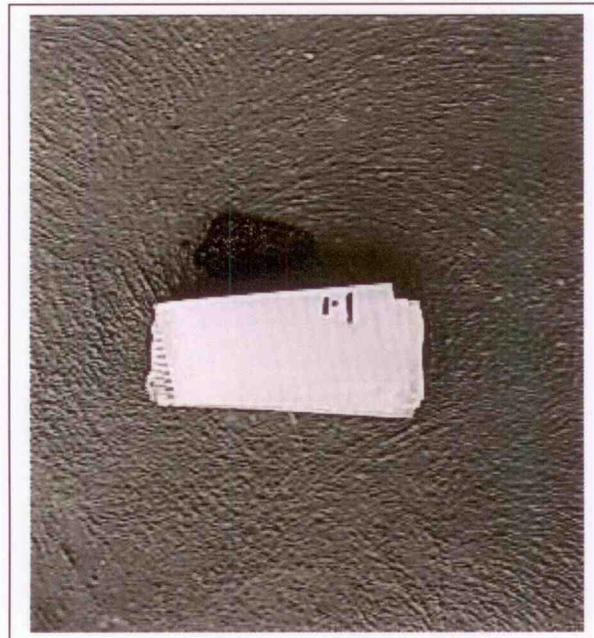
HALL

BATHROOM

BACK BEDROOM



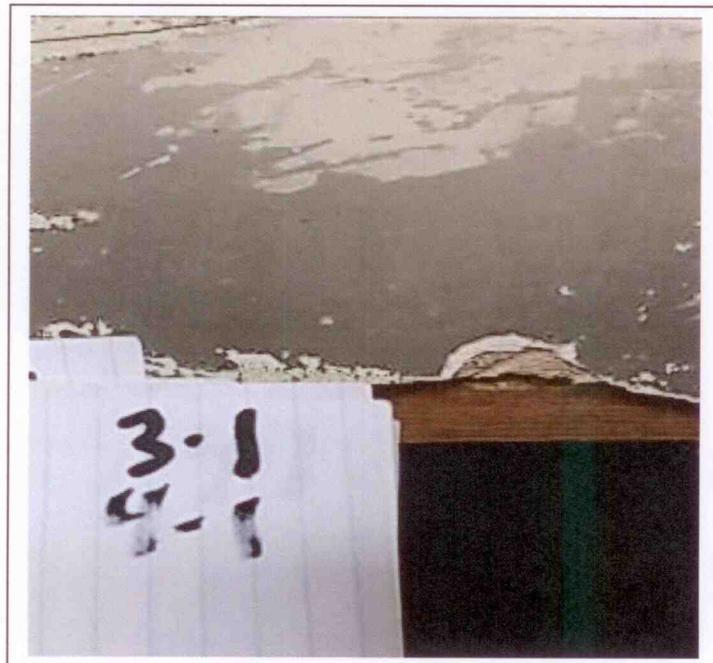
434 Burleigh Avenue



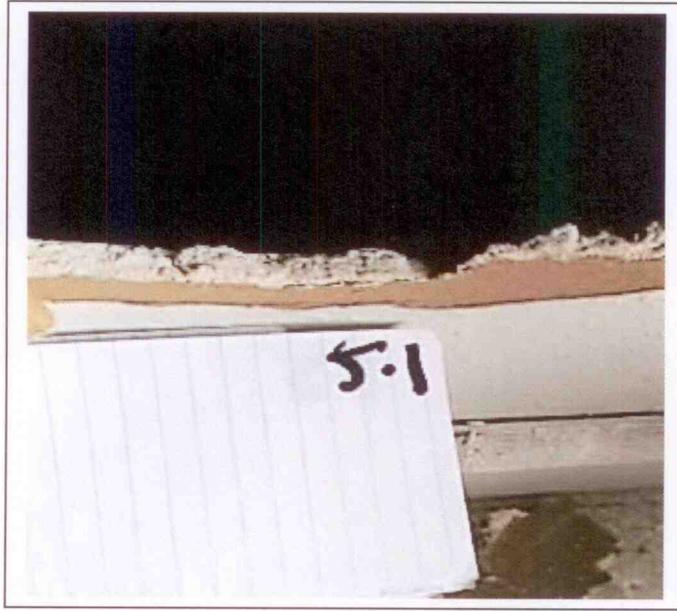
Asphalt roof shingle



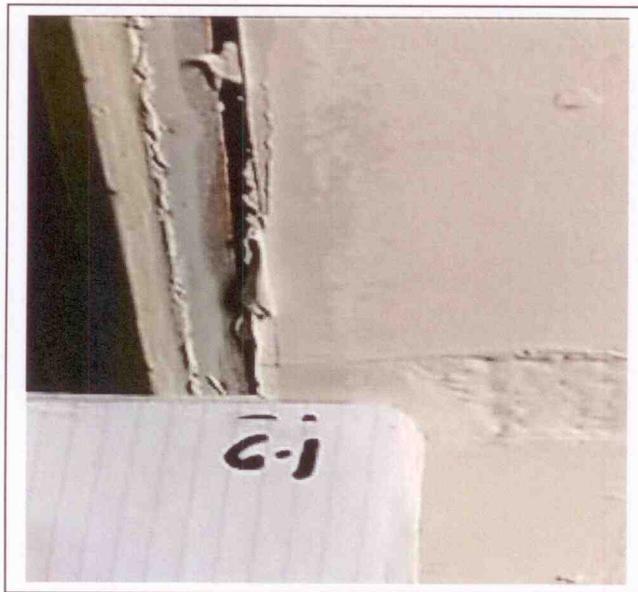
Window glaze



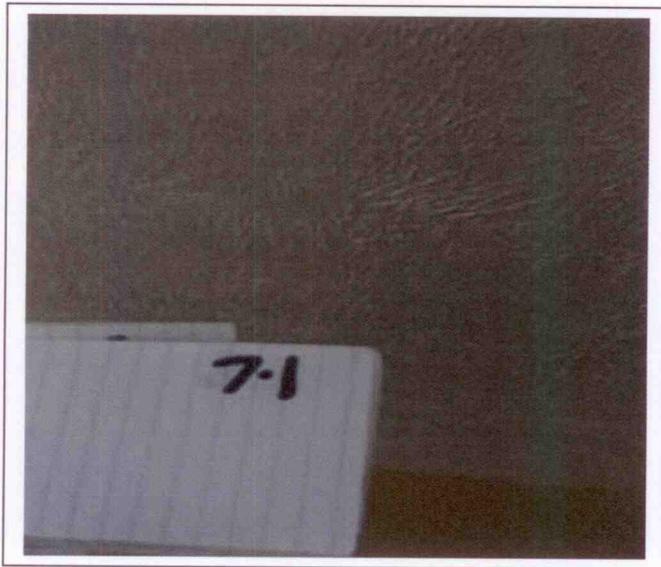
Hard wall and ceiling plaster



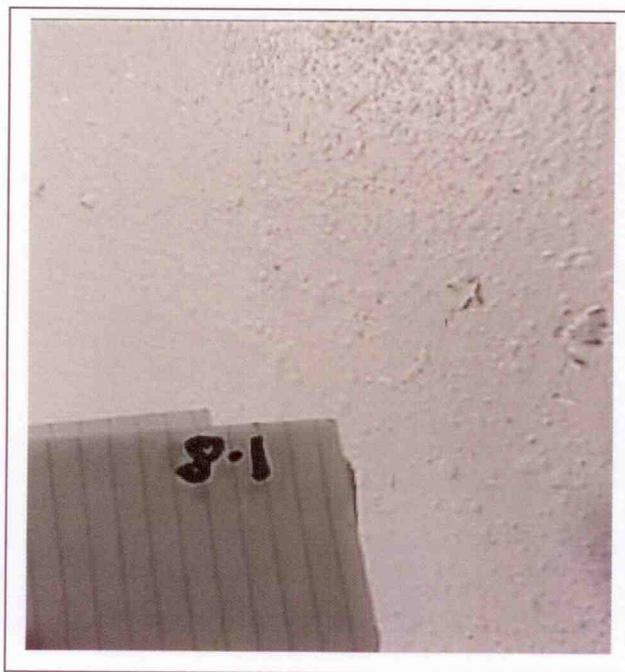
Drywall



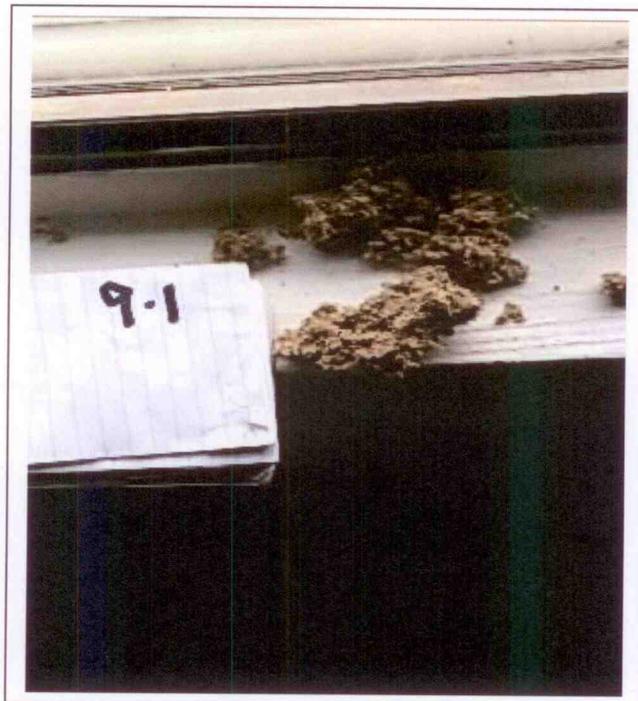
Joint compound



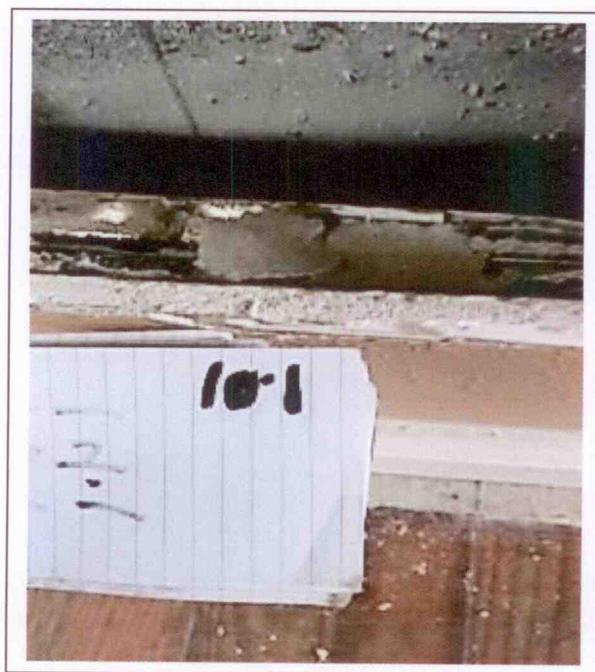
Textured ceiling, flower pattern



Textured wall, rough



Blown-in insulation



Duct insulation

August 26, 2015

Christopher P Kuettnner
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES33689
Expiration Date: 10/14/2016

Dear Christopher P Kuettnner:

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



Christopher P Kuettnner
Sierra Environmental Group, Inc.
1041 Straight Street
Cincinnati OH 45214

DOB: 11/17/1958	Certification Number: ES33689	Expiration Date: 10/14/2016
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Department of Health, 1675 East Broad Street, Columbus, Ohio 43261-2999
Phone: 614-467-2800, Fax: 614-467-2801, TDD: 614-467-2802, Email: ohs@ohio.gov