



EAGLE
Environmental, Inc.



Hazardous Building Materials > Industrial Hygiene/IAQ > Environmental Assessments > Laboratory Services & Training

June 5, 2014

Mr. David Holmes
Capital Studio Architects
1379 Main Street
East Hartford, CT 06108

RE: Environmental Assessment Report
Department of Housing
CDBG-DR – Sandy Disaster Recovery Program
155 Shore Road
Clinton, Connecticut
Application #2068
Eagle Project No. 14-028.12T4

Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 155 Shore Road located in Clinton, Connecticut (Site). The environmental assessment was performed in support of the planned renovations/repairs to the Site building under the State of Connecticut Department of Housing Community Development Block Grant – Disaster Recovery Program (Program). The assessment focused only on those areas of the building that are scheduled for renovation/repair work with the exception of the lead hazard screen, which included the interior and exterior of the entire building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

This assessment and report is intended to satisfy the review process of the National Environmental Policy Act (NEPA) Statutory Checklist Sections 13C (Lead-Based Paint), 13D (Asbestos), 13E (Radon) and 13F (Mold).

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely,
Eagle Environmental, Inc.

Report Prepared By:
Kristen Liljehult
Environmental Consultant II

Report Reviewed By:
Peter J. Fokino
Project Manager

\\Eaglesvr\public\2014 Files\2014 Reports\Captial Studio Architects\Hurricane Sandy\155 Shore Rd - Clinton\155 Shore Rd - HAZ Inspection Report.doc

8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

TABLE OF CONTENTS

1. INTRODUCTION	1
1.1 INSPECTION AREA DESCRIPTION	1
2. SCOPE OF INSPECTION.....	1
2.1 ASBESTOS CONTAINING MATERIALS.....	1
2.2 LEAD-BASED PAINT.....	1
2.3 RADON TESTING.....	3
2.4 MOLD INSPECTION	3
3. INSPECTION PROTOCOLS	3
3.1 ASBESTOS CONTAINING MATERIALS.....	3
3.1.1 Inspection.....	3
3.1.2 Bulk Sampling.....	4
3.1.3 Bulk Sample Analysis.....	4
3.2 LEAD-BASED PAINT.....	5
3.3 RADON TESTING.....	6
3.4 MOLD INSPECTION	6
4. INSPECTION RESULTS	6
4.1 ASBESTOS CONTAINING MATERIALS.....	6
4.2 LEAD-BASED PAINT.....	7
4.2.1 Dust Hazards.....	7
4.2.2 Soil Hazards	7
4.3 RADON	7
4.4 MOLD.....	7
5. COST ESTIMATES	8

LIST OF TABLES

Table I	Asbestos-Containing Materials Summary Table
Table II	Non Asbestos-Containing Materials Summary Table

APPENDICES

Appendix 1	Floor Plans
Appendix 2	Asbestos Bulk Sample Laboratory Reports
Appendix 3	Interior and Exterior Visual Assessment Forms
Appendix 4	XRF Lead-based Paint Inspection Reports
Appendix 5	Lead Dust Sample Laboratory Reports
Appendix 6	Radon Testing Reports
Appendix 7	Mold Inspection Forms
Appendix 8	Abatement and Consulting Cost Estimates
Appendix 9	Eagle Environmental Inc. Licenses and Laboratory Certificates

1. INTRODUCTION

On April 11 and May 23, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 155 Shore Road in Clinton, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint screen and a visual inspection for microbial contamination.

1.1 Inspection Area Description

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection are determined by reviewing the planned renovation work provided in CSA's Project Scope dated February 19 (Revised March 6), 2014. For the purpose of this project the following areas were inspected:

- Living Room
- Façade "D"

In addition to testing the areas of the building that will be impacted by the renovation work, a lead hazard screen was performed throughout the site building to comply with federal funding requirements for a residential building receiving Federal funding assistance under a Department of Housing and Urban Development (HUD) administered program.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted to identify and sample suspect asbestos-containing materials within the areas of proposed renovation or repair work. Although federal regulations requiring asbestos inspection do not pertain to a residential structure containing less than five (5) units, demolition or renovation activities which may disturb asbestos would be unauthorized under the State of Connecticut Department of Public Health (DPH) regulations. Disposal of asbestos containing waste in unauthorized landfills is also prohibited. The inspection was performed to facilitate compliance with these applicable abatement and disposal regulations.

The asbestos inspection was performed by Andrew Carnevale; a State of Connecticut licensed Asbestos Inspector (license #000850).

2.2 Lead-based Paint

A lead-based paint hazard screen was performed at the site building to comply with the Department of Housing and Urban Development (HUD) Lead Safe Housing Rule (24 CFR 35) for a residential property receiving Federal rehabilitation assistance under a program administered by HUD.

Certain lead-based paint requirements apply to each project depending on the level of Federal Funding allocated. The bolded text indicates the requirements applicable to this project based on the anticipated level of funding. The lead-based paint requirements include the following for each level of funding:

1. Residential property receiving \$5,000 or less per unit (Not Applicable to this Project):
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.
 - c. Interim control measures may be utilized throughout the building
 - d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.
 - e. After the completion of any rehabilitation work that has disturbed painted surfaces, clearances are to be performed.

2. Residential property receiving between \$5,000 and \$25,000 per unit:
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Provide notice to residents of lead evaluation within 15 days of assessment.
 - c. Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.
 - d. Perform interim controls on all lead hazards identified during the lead hazard screen.
 - e. Perform clearance testing following interim control work and renovations.
 - f. Provide notice of lead-hazard reduction within 15 days of completion of work.

3. Residential property receiving greater than \$25,000 per unit:
 - a. **Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.**
 - b. **Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.**
 - c. **Provide notice to residents of lead evaluation within 15 days of assessment.**

- d. **Abate all interior lead-based paint hazards identified during the lead inspection/risk assessment. Interim controls are acceptable on exterior surfaces that are not disturbed by rehabilitation and on paint-lead hazards that are below the de minimus levels.**
- e. **Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.**
- f. **Perform clearance testing following abatement work.**
- g. **Provide notice of lead-hazard reduction within 15 days of completion of work.**

In addition to HUD's Lead Safe Housing Rule, the State of Connecticut Department of Public Health Lead Poisoning Prevention and Control regulations apply when a child under the age of six (6) years old lives in the residence at the time of the inspection. The lead hazard screen was performed in accordance with State requirements, where applicable.

The lead hazard screen was performed by Andrew Carnevale and Kristen Liljehult, State of Connecticut licensed Lead Inspector/Risk Assessors (license #002247 and 002206, respectively).

2.3 Radon Testing

Radon testing for this program is performed on a case-by-case basis. Building's which are constructed on piers with its lowest level not in contact with the ground are not considered for Radon testing.

Buildings, which are not elevated off the ground are tested for Radon under this Program. Radon testing is performed to comply with the National Environmental Policy Act (NEPA).

At a minimum, the Indoor Radon Potential Map of Connecticut was reviewed to determine each sites geographic location in respect to indoor radon potential.

2.4 Mold Inspection

Eagle performed a visual inspection for the presence of suspect mold within the inspection areas. The inspection included an investigation for signs of visible microbial growth including discoloring of building materials, mal odors and water intrusion that may inhibit microbial growth. The inspection was visual in nature and did not include any sampling or destructive investigations behind rigid walls or ceilings.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building that will potentially be impacted by the proposed renovation/repair work. The inspection did not include areas outside of the proposed renovation/repair work areas.

Semi-destructive testing techniques were utilized during the inspection process. This included removing small pieces of suspect materials for analysis (bulk sampling). Only those building materials that will be impacted by the proposed renovation/repair work were sampled. Wood, glass, metal and fiberglass are not defined as suspect materials and are not sampled.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, towed or otherwise applied to an existing surface.

These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method for the property located at 155 Shore Road, Clinton, Connecticut.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos",

"TRACE" or "NAD" are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method for the property located at 155 Shore Road, Clinton, Connecticut.

3.2 Lead-based Paint

The lead hazard screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1364 and 2753. Eagle did not presume lead-based paint to be present but tested where defective paint was visually identified.

Due to the level of proposed Federal Funding for this project (exceeding \$25,000 per unit), a lead-hazard screen was performed, which included testing surfaces where defective paint or surface coatings were identified. A visual inspection was performed to evaluate the condition of surface coating associated with the building. Where surface coatings were defective (peeling, chipping, flaking, etc.), paint testing was performed. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, lead-based paint is defined as surface coatings that contain ≥ 1.0 mg/cm² of lead by XRF.

In addition to XRF testing, dust samples were collected at the time of inspection if defective lead-based paint was identified. The exterior grounds were evaluated as well for bare areas of soil. Soil sampling was performed where bare soil areas were identified. The dust and soil hazards are incorporated into the Lead-Based Paint Hazard Reduction Plan, as required.

3.3 Radon Testing

The site building has been raised to proper flood elevation and the lowest level of the building is not in contact with the ground. Radon testing was not performed for this site building.

3.4 Mold Inspection

Eagle Environmental, Inc. performed a visual inspection within the limits of the inspection area for potential microbial growth. The visual inspection was performed to evaluate building materials for signs of water damage and suspect microbial growth. Building materials such as gypsum board, cellulose ceiling tiles, paper pipe coverings or duct coverings and heating, ventilation and air conditioning components were visually assessed. Only visible accessible materials were inspected within the proposed areas of renovation/repair.

Discoloration and decay of the aforementioned building materials may signify mold growth. Water damage or damp conditions may also signify suitable conditions for mold growth.

Suspect mold growth or conditions that may sustain mold growth were documented during the inspection process. In general, the location, color of suspect growth and estimated quantity of impacted building materials were recorded during the inspection process.

Eagle used an Extech Instruments Model MO290 Moisture/Humidity Meter to measure the relative moisture content of accessible representative building materials that may have been impacted by water during the storm. A “dry standard” for each component was determined by averaging the moisture measurements for materials in un-impacted areas. The “dry standard” was used as a baseline comparison to determine if the materials were wet. Moisture measurements were recorded on the Mold Moisture Reading Form.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection twelve (12) bulk samples of suspect ACM were collected and twelve (12) samples were analyzed by PLM based on the “stop on first positive” request to the laboratory.

Based upon the results of the analyses the materials that were sampled were confirmed to be Non-ACM.

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

4.2 Lead-based Paint

A copy of this lead-hazard screen report must be provided to residence within fifteen (15) days of the evaluation. A total of forty-five (45) XRF readings were collected during the lead-hazard screen of the building. From the forty-five (45) readings, eight (8) were found to contain lead-based paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

No children under the age of six (6) years old resided at this site building at the time of the inspection. However, the Federal funding for this project is anticipated to exceed \$25,000.00. This residence is considered target housing by the USEPA. All lead-based paint abatement and interim control work shall be performed by a Lead Abatement Contractor and conducted in compliance with all Federal, State and local regulations. Specifically, work shall conform with The Department of Housing and Urban Development (HUD) Guidelines For the Control and Evaluation of Lead Based Paint in Housing, The United States Environmental Protection Agency (USEPA), The State of Connecticut Department of Public Health (DPH) Lead Poisoning Prevention and Control Regulations, The State of Connecticut Department of Energy and Environmental Protection (DEEP) Hazardous Waste Disposal regulations and the Department of Labor's Occupational Safety and Health Administration (OSHA) Lead in Construction Final Rule 29 CFR 1926.62.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint ($>0.0 \text{ mg/cm}^2 \pm 0.3 \text{ mg/cm}^2$ by XRF or $>0.01 \%$ by AAS) requires task specific exposure monitoring. Contractors performing lead disturbing tasks on this project must comply with the OSHA Lead in Construction Standard.

4.2.1 Dust Hazards

A total of ten (10) dust wipes were collected at the time of inspection. No dust-lead hazards were identified at the sampled locations.

4.2.2 Soil Hazards

No soil samples were collected at the time of inspection as the ground is covered with sand and crushed stone.

4.3 Radon

Radon testing was not performed at this Site since the building has been elevated and the lowest level of the building is not in contact with the ground.

4.4 Mold

There are cracks in the sheetrock wall on "C" side of the building and some water damage on the wood floor in the rear bedroom. The areas appear to be dry; there were no visible signs of microbial growth at the time of inspection. The mold inspection forms are provided in appendix 7.

5. COST ESTIMATES

The cost estimates include only the abatement or remediation work necessary to support the renovation/repair work. Other regulated or hazardous materials may be present and were not inspected for under this scope of services and are not included within the estimate.

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 8.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
155 SHORE ROAD
CLINTON, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM/PC	TEM NOB	ACM		
NO ACM IDENTIFIED IN THIS SCOPE OF WORK									
KEY									
DNA = DID NOT ANALYZE		SF = SQUARE FEET		ANALYTICAL METHODS					
NAD = NO ASBESTOS DETECTED		LF = LINEAR FEET		PLM/PC = EPA 600/R-93/116 QUANTITATION	TEM NOB = NEW YORK ELAP 198.4 METHOD	ACM	400 POINT COUNT		
F = FRIABLE		Chrys = Chrysotile		PLM = EPA 600/R-93/116					
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled					
TSI = THERMAL SYSTEMS INSULATION		Anth = Anthophyllite		EA = Each					
SURF = SURFACING MATERIAL		Trem = Tremolite							
MISC = MISCELLANEOUS MATERIAL		Croc = Crocidolite							
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION									

TABLE II

NON-ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

**TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
155 SHORE ROAD
CLINTON, CONNECTICUT**

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Living Room	Sheetrock	4-11-AC-01	MISC	NAD			NO
		4-11-AC-02		NAD			
Living Room	Joint compound	4-11-AC-03	MISC	NAD			NO
		4-11-AC-04		NAD			
Living Room	Sheetrock/joint compound composite	4-11-AC-05	MISC	NAD			NO
		4-11-AC-06		NAD			
Living Room	Window caulk	4-11-AC-07	MISC	NAD			NO
		4-11-AC-08		NAD			
Living Room	Fiberboard window sill	4-11-AC-09	MISC	NAD			NO
		4-11-AC-10		NAD			
Façade D	Black vapor paper under siding	4-11-AC-11	MISC	NAD			NO
		4-11-AC-12		NAD			
KEY				ANALYTICAL METHODS			
DNA = DID NOT ANALYZE				PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT			
NAD=NO ASBESTOS DETECTED				TEM NOB = NEW YORK ELAP 198.4 METHOD			
F = FRIABLE				PLM = EPA 600/R-93/116			
NF = NON-FRIABLE				PS = Previously Sampled			
TSI = THERMAL SYSTEMS INSULATION				EA = Each			
SURF = SURFACING MATERIAL							
MISC = MISCELLANEOUS MATERIAL							
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION							

APPENDIX 1
FLOOR PLANS

CAPITOL STUDIOS ARCHITECTS

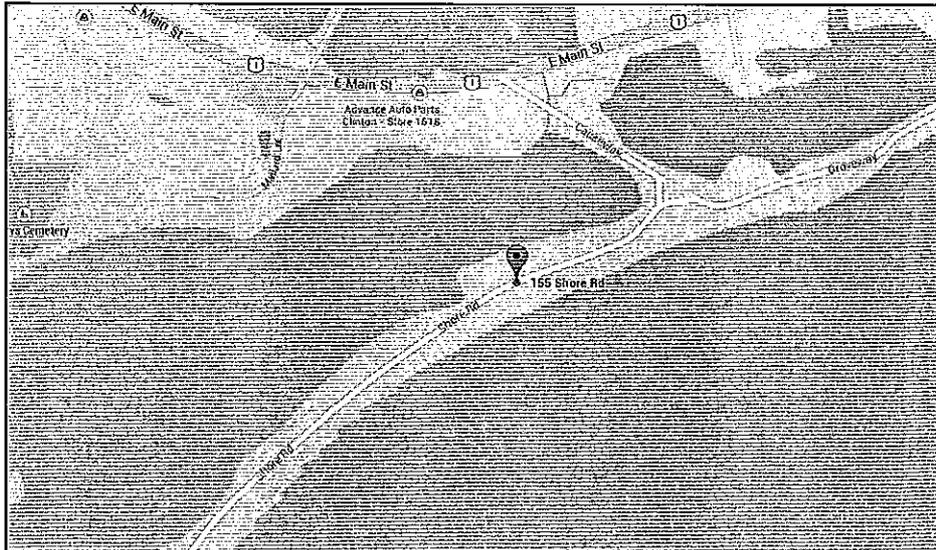
155 SHORE ROAD
CLINTON, CONNECTICUT

EAGLE PROJECT NUMBER: 14-028.12T4

INDEX OF DRAWINGS

SP-1 SITE PLAN
FP-1 FIRST FLOOR PLAN
FP-2 SECOND FLOOR PLAN
FP-3 THIRD FLOOR PLAN

LOCATION MAP



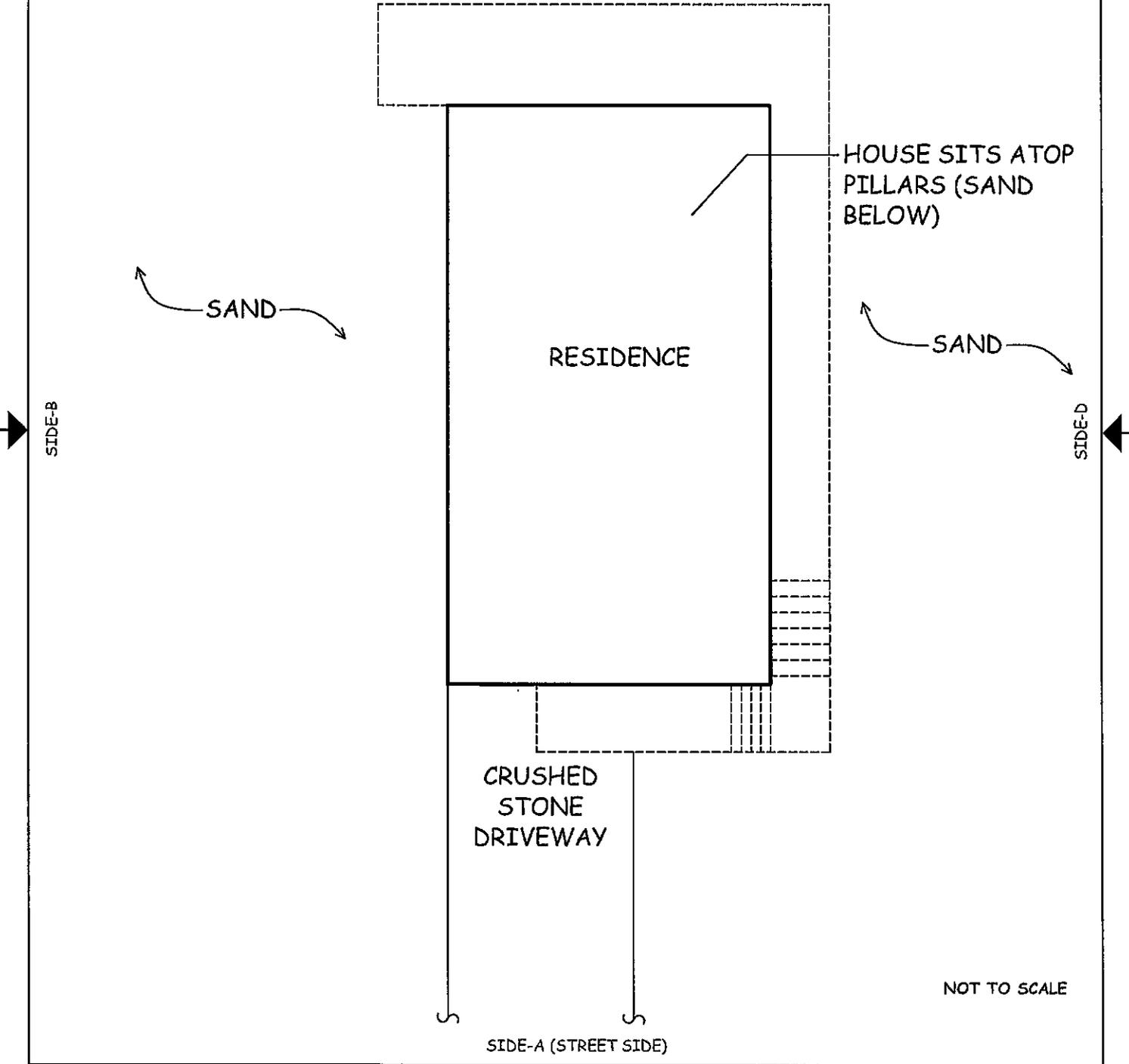
JUNE 3, 2014



8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SITE PLAN

SIDE-C



NOT TO SCALE



DATE: 06/02/2014
PROJECT NO.: 14-028.12-T4
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
155 SHORE ROAD
CLINTON, CONNECTICUT
SITE PLAN

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

SP-1

SHEET 1 OF 4

FIRST FLOOR

SIDE-C

WINDOW KEY:

CS = CASEMENT

FX = FIXED

RW = REPLACEMENT
WOOD SASH
(TESTED NEGATIVE
FOR LEAD-BASED
PAINT)

WRAQP-AROUND
DECK

LIVING ROOM/
DINING ROOM
005

KITCHEN
004

OFFICE
003

BATH
002

FOYER
001

RW

DECK

RW

NOT TO SCALE

SIDE-A (STREET SIDE)



8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

FP-1

SHEET 2 OF 4

DATE: 06/02/2014
PROJECT NO.: 14-028.12-T4
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
155 SHORE ROAD
CLINTON, CONNECTICUT
FIRST FLOOR PLAN

SECOND FLOOR

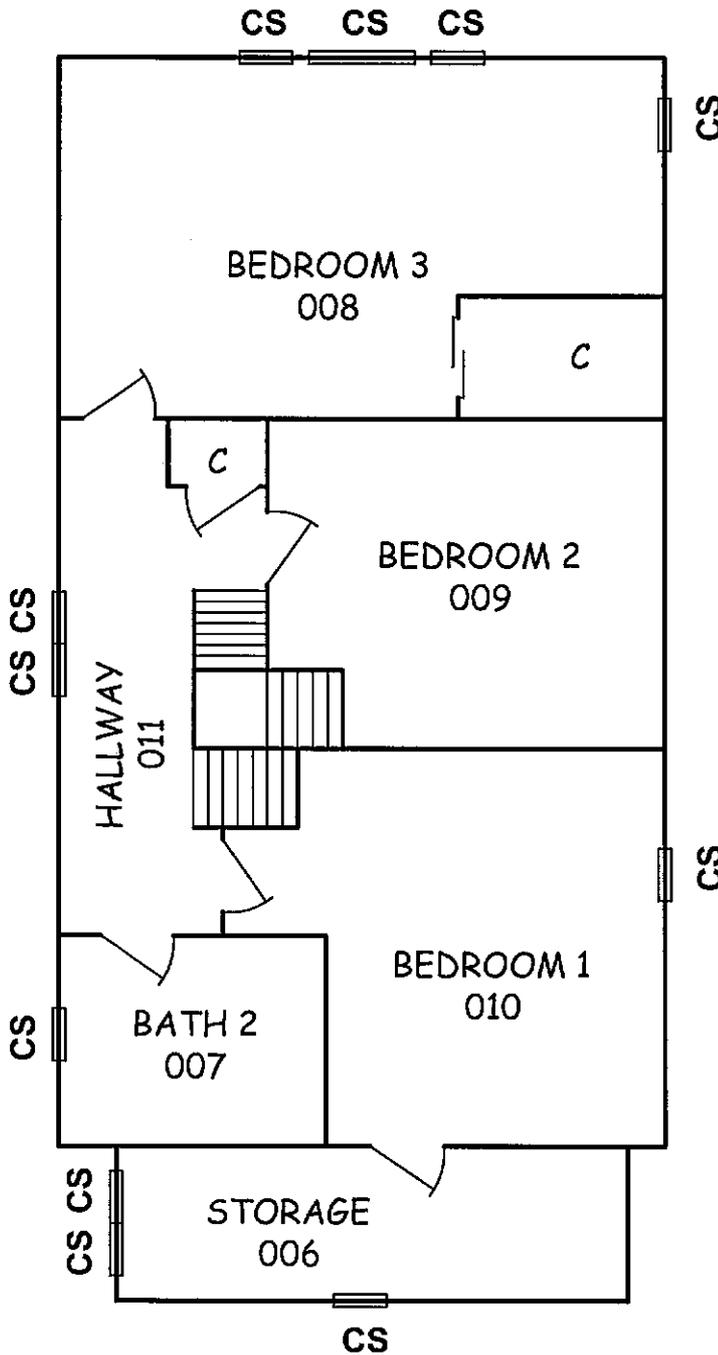
SIDE-C

WINDOW KEY:

CS = CASEMENT

FX = FIXED

RW = REPLACEMENT
WOOD SASH
(TESTED NEGATIVE
FOR LEAD-BASED
PAINT)



NOT TO SCALE

SIDE-A (STREET SIDE)



EAGLE
Environmental, Inc.

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

FP-2

SHEET 3 OF 4

DATE: 06/02/2014
PROJECT NO.: 14-028.12-T4
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
155 SHORE ROAD
CLINTON, CONNECTICUT
SECOND FLOOR PLAN

THIRD FLOOR

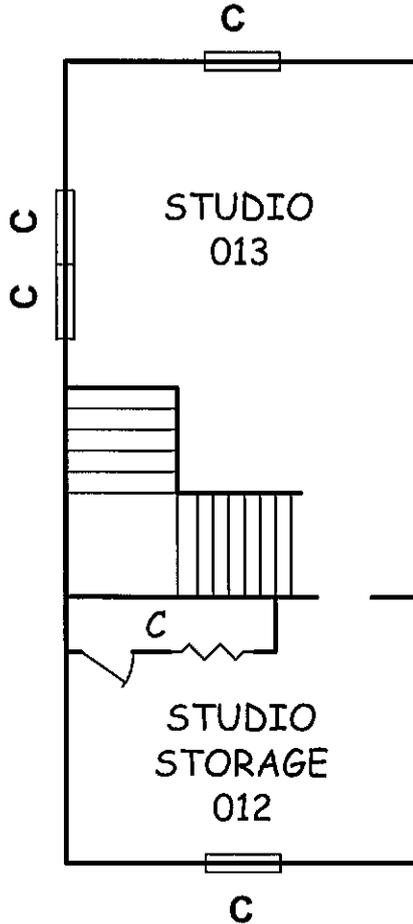
SIDE-C

WINDOW KEY:

CS = CASEMENT

FX = FIXED

RW = REPLACEMENT
WOOD SASH
(TESTED NEGATIVE
FOR LEAD-BASED
PAINT)



NOT TO SCALE

SIDE-A (STREET SIDE)



EAGLE
Environmental, Inc.

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

FP-3

SHEET 4 OF 4

DATE: 06/02/2014
PROJECT NO.: 14-028.12-T4
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
155 SHORE ROAD
CLINTON, CONNECTICUT
THIRD FLOOR PLAN

THIRD FLOOR

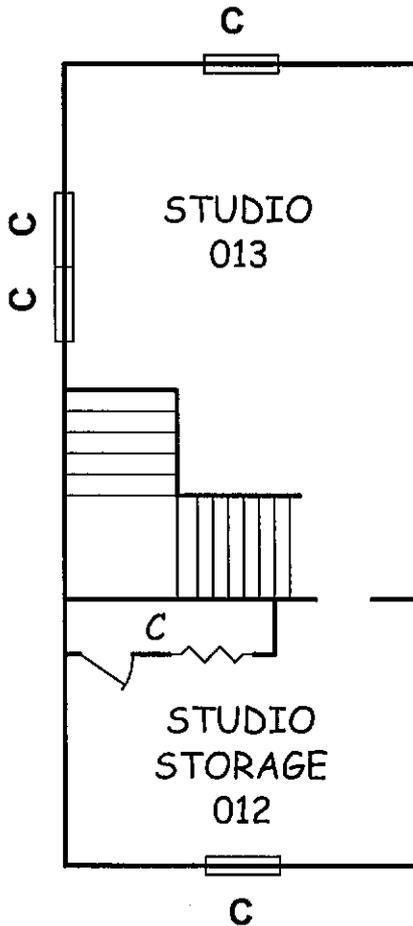
SIDE-C

WINDOW KEY:

CS = CASEMENT

FX = FIXED

RW = REPLACEMENT
WOOD SASH
(TESTED NEGATIVE
FOR LEAD-BASED
PAINT)



NOT TO SCALE

SIDE-A (STREET SIDE)



EAGLE
Environmental, Inc.

DATE: 06/02/2014
PROJECT NO.: 14-028.12-T4
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
155 SHORE ROAD
CLINTON, CONNECTICUT
THIRD FLOOR PLAN

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

FP-3

SHEET 4 OF 4

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

031414062



EMSL - MA
 7 Constitution Way, Ste 107
 Woburn, MA 01801
 (781) 933-8411
 (781) 933-8412 Fax

EMSL - CT
 29 N. Plains Hwy, Unit 4
 Wallingford, CT 06492
 (203) 284-5948
 (203) 284-5978 Fax

EMSL - NY
 307 West 38th Street
 New York, NY 10018
 (866) 448-3675
 (212) 290-0058 Fax

EMSL - NJ
 107 Haddon Avenue
 Westmont, NJ 08108
 (800) 220-3675
 (856) 858-4960 Fax

Your Name: Brandy LeBlanc **Project Manager:** PF

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

Phone: 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsoch@eagleenviro.com

Project Name: CAPITAL STUDIO ARCHITECTS **Project #:** 14-026.12T4

Project Location: 155 SHORE ROAD, CLINTON **Project State (US):** CT

TURNAROUND TIME

3 Hours
 6 Hours
 24 Hours
 48 Hours
 72 Hours
 4 Days
 5 Days
 6-10 Days

SAMPLE MATRIX

Air
 Bulk
 Soil
 Wipe
 Micro-Vac
 Drinking Water
 Wastewater
 Chips
 Other

ASBESTOS ANALYSIS

PCM - Air

NIOSH 7400 (A) Issue 2: August 1994

OSHA w/TWA

TEM AIR

AHERA 40 CFR, Part 763 Subpart E

NIOSH 7402 Issue 2

EPA Level II

PLM - Bulk

EPA 600/R-93/116

NY Stratified Point Count

California Air Resource Board (CARB) 435

NIOSH 9002

PLM NOB (Gravimetric) NYS 198.1

EPA Point Count (400 Points)

EPA Point Count (1,000 Points)

Standard Addition Point Count

SOILS

EPA Protocol Qualitative

EPA Protocol Quantitative

EMSL MSD 9000 Method fibers/gram

Superfund EPA 540-R097-028 (dust generation)

TEM BULK

Drop Mount (Qualitative)

Chatfield SOP-1988-02

TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

ASTM D 5755-95 (Quantitative)

TEM WIPE

ASTM D-6480-99

Qualitative

TEM WATER

EPA 100.1

EPA 100.2

NYS 198.2

Other: _____

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM

Soil, SW846-7420

Air, NIOSH 7082

Chips, SW846-7420 or AOAC 5.009 (974.02)

Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

Air, NIOSH 7105

Wastewater, SW846-7421

Soil, SW846-7421

Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

Wipe, SW846-6010 ASTM non ASTM

Soil, SW846-6010

Air, NIOSH 7300

MICROBIAL ANALYSIS

Air Samples

Mold & Fungi by Air O Cell

Mold & Fungi by Agar Plate count & id

Bacterial Count and Gram Stain

Bacterial Count and identification

Water Samples

Total Coliforms, Fecal Coliforms

Escherichia Coli, Fecal Streptococcus

Legionella

Salmonella

Giardia and Cryptosporidium

Wipe and Bulk Samples

Mold & Fungi - Direct Examination

Mold & Fungi - (Culture follow up to direct examination if necessary)

Mold & Fungi - Culture (Count & ID)

Mold & Fungi - Culture (Count only)

Bacterial Count & Gram Stain

Bacterial Count & Identification (3 most prominent types)

Other: _____

MATERIALS ANALYSIS

Full Particle Identification

Optical Particle Identification

Dust Mites and Insect Fragments

Particle Size & Distribution

Product Comparison

Paint Characterization

Failure Analysis

Corrosion Analysis

Glove Box Containment Study

Petrographic Examination of Concrete

Portland Cement in Workplace Atmospheres (OSHA ID-143)

Man Made Vitrous Fibers - MMVF's

Synthetic Fiber Identification

Other: _____

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)

Airborne Dust (PM10, TSP)

Silica Analysis by XRD NIOSH 7500

HVAC Efficiency

Carbon Black

Airborne Oil/Mist

Other: _____

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	4-11-AC-01	4-11-AC-12	TOTAL SAMPLE #	12	12
Relinquished:	ANDY CARNEVALE	Date: 4-11-2014	Time: PM		
Received:	NANCY PORTER	Date: 4-11-2014	Time: PM		
Relinquished:	NANCY PORTER	Date: 4-11-2014	Time: PM		
Received:	L. Coleman	Date: 4/12/14	Time: 11:06 AM		

[Handwritten signatures and dates]
 4/12/14 7:52pm 4/13/14 12:56pm Page 1

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>manhattanlab@emsl.com

EMSL Order: 031414062

CustomerID: EEVM50

CustomerPO:

ProjectID:

Attn: **Pete Folino**
Eagle Environmental, Inc. - CT
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 04/12/14 11:26 AM
 Analysis Date: 4/13/2014
 Collected: 4/11/2014

Project: 14-028.12T4/CAPITAL STUDIO ARCHITECTS/155 SHORE ROAD, CLINTON, CT

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
4-11-AC-01 031414062-0001	LIVING RM - SHEETROCK	Gray Non-Fibrous Homogeneous	15% Cellulose	43% Gypsum 42% Non-fibrous (other)	None Detected
4-11-AC-02 031414062-0002	LIVING RM - SHEETROCK	Gray/Tan Non-Fibrous Heterogeneous	20% Cellulose	55% Gypsum 25% Non-fibrous (other)	None Detected
4-11-AC-03 031414062-0003	LIVING RM - JOINT COMPOUND	White Non-Fibrous Homogeneous		7% Mica 43% Ca Carbonate 50% Non-fibrous (other)	None Detected
4-11-AC-04 031414062-0004	LIVING RM - JOINT COMPOUND	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
4-11-AC-05 031414062-0005	LIVING RM - SHEETROCK/JOINT COMPOUND COMPOSITE	Gray/White Non-Fibrous Homogeneous	15% Cellulose	35% Gypsum 23% Ca Carbonate 27% Non-fibrous (other)	None Detected
4-11-AC-06 031414062-0006	LIVING RM - SHEETROCK/JOINT COMPOUND COMPOSITE	Gray Non-Fibrous Homogeneous	10% Cellulose	65% Gypsum 15% Ca Carbonate 10% Non-fibrous (other)	None Detected
4-11-AC-07 031414062-0007	LIVING RM - WINDOW CAULK	White Non-Fibrous Homogeneous	8% Cellulose	33% Quartz 59% Non-fibrous (other)	None Detected

Analyst(s)

Emmanuel Alberto (6)
 Jessica Fearon-Brown (6)

James Hall, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NYQ22, CT PH-0170, MA AA000170

Initial report from 04/13/2014 13:59:22

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.EMSL.com>manhattanlab@emsl.com

EMSL Order: 031414062

CustomerID: EEVM50

CustomerPO:

ProjectID:

Attn: **Pete Folino**
Eagle Environmental, Inc. - CT
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 04/12/14 11:26 AM
 Analysis Date: 4/13/2014
 Collected: 4/11/2014

Project: 14-028.12T4/CAPITAL STUDIO ARCHITECTS/155 SHORE ROAD, CLINTON, CT

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
4-11-AC-08 031414062-0008	LIVING RM - WINDOW CAULK	Brown/White Non-Fibrous Homogeneous		25% Ca Carbonate 50% Matrix 25% Non-fibrous (other)	None Detected
4-11-AC-09 031414062-0009	LIVING RM - FIBERBOARD WINDOW SILL	Brown Fibrous Homogeneous	52% Cellulose	48% Non-fibrous (other)	None Detected
4-11-AC-10 031414062-0010	LIVING RM - FIBERBOARD WINDOW SILL	Brown/White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
4-11-AC-11 031414062-0011	FAC D - BLACK VAPOR PAPER UNDER SIDING	Black Non-Fibrous Homogeneous	18% Cellulose	82% Non-fibrous (other)	None Detected
4-11-AC-12 031414062-0012	FAC D - BLACK VAPOR PAPER UNDER SIDING	Black Non-Fibrous Heterogeneous	20% Cellulose	50% Matrix 30% Non-fibrous (other)	None Detected

Analyst(s)

Emmanuel Alberto (6)
 Jessica Fearon-Brown (6)

James Hall, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-fragile organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/13/2014 13:59:22

APPENDIX 3

INTERIOR AND EXTERIOR VISUAL ASSESSMENT FORMS



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 155 Shore Drive, Clinton, CT

Room No: Hallway 011

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	I F P	partly up to wood, part painted	(1) caulk w/ w wood
Wall	(A) (B) (C) (D)	(1) F P	blue mck + panel	
Ceiling	A B C D	(1) F P	sheetrock	
Door	A B C D	I F P		
Door Casing	(A) (B) (C) (D)	(1) F P		
Door Jamb	A B C D	I F P		
Baseboard	(A) (B) (C) (D)	(1) F P		
Window Casing	A (B) C D	(1) F P		
Window Stop	A (B) C D	(1) F P		
Window Jamb	A B C D	I F P		
Window Sash	A (B) C D	(1) F P		
Window Well	A B C D	I F P		
Window Sill	A (B) C D	(1) F P		
Window Apron	A (B) C D	(1) F P		
Closet Door	A B (C) D	(1) F P		
Closet Door Casing	A B (C) D	(1) F P		
Closet Door Jamb	A B (C) D	(1) F P		
Closet Shelf	A B (C) D	(1) F P		
Shelf Support	A B (C) D	(1) F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Stair treads	A B C D	(1) F P		
Stair nosing	A B C D	(1) F P		
Stair stringer	A B C D	(1) F P		
Stair railing	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 155 Shore Drive, Clinton, CT

Room No: Studio 013

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	I F P	Painted wood	
Wall	A B C D	I F P	WOOD	
Ceiling	A B C D	I F P		
Door	A B C D	I F P		
Door Casing	A B C D	I F P		
Door Jamb	A B C D	I F P		
Baseboard	A B C D	I F P		
Window Casing	A B C D	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
shelving	A B C D	I F P		
	A B C D	I F P		
Stair tread	A B C D	I F P		
Stair riser	A B C D	I F P		
Stair stringer	A B C D	I F P		
Stair header	A B C D	I F P		
Stair walls	A B C D	I F P	panel	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		

APPENDIX 4

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/11/14 08:36

INSPECTION FOR: Mr. David Holmes
Capital Studio Architects
1379 Main Street
East Hartford CT 06108

PERFORMED AT: 155 Shore Road
Clinton, CT

INSPECTION DATE: 04/11/14

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002247

Lead based paint screen performed for renovations.

SIGNED: 

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
8 South Main Street, Suite 3
Terryville, CT 06786

Date: 4-11-14

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Inspection Date: 04/11/14 155 Shore Road
 Report Date: 4/11/2014 Clinton, CT
 Abatement Level: 1.0
 Report No. S#01364 - 04/11/14 08:36
 Total Readings: 29 Actionable: 4
 Job Started: 04/11/14 08:36
 Job Finished: 04/11/14 10:19

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Facade D									
023	D	soffit	Ctr		P	Wood	white	>9.9	QM
024	D	rakeboard	Ctr		P	Wood	white	5.8	QM
Interior Room 001 Living Rm									
009	A	Ceiling	Rgt		P	Wood	white	1.0	QM
Interior Room 003 Bedroom									
014	C	Floor	Rgt		P	Wood	blue	2.9	QM

Calibration Readings

----- End of Readings -----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Inspection Date: 04/11/14
 Report Date: 4/11/2014
 Abatement Level: 1.0
 Report No. S#01364 - 04/11/14 08:36
 Total Readings: 29
 Job Started: 04/11/14 08:36
 Job Finished: 04/11/14 10:19

155 Shore Road
 Clinton, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Facade D									
023	D	soffit	Ctr		P	Wood	white	>9.9	QM
024	D	rakeboard	Ctr		P	Wood	white	5.8	QM
021	D	Window	Ctr	Casing	P	Wood	white	0.1	QM
Exterior Room 002 Facade B									
026	B	ceiling underneath	Ctr		P	Wood	white	0.2	QM
022	B	Window	Ctr	Casing	P	Wood	white	0.3	QM
025	B	Window	Ctr	Sash	P	Wood	white	-0.1	QM
Interior Room 001 Living Rm									
010	A	beam	Rgt		P	Wood	white	0.0	QM
009	A	Ceiling	Rgt		P	Wood	white	1.0	QM
006	B	Window	Rgt	Casing	P	Wood	yellow	-0.2	QM
007	B	Window	Rgt	jamb	P	Wood	white	0.0	QM
012	B	Window	Rgt	Sash	P	Wood	white	0.2	QM
008	B	Window	Rgt	Sill	P	Wood	white	0.0	QM
004	C	Wall	Ctr		P	Dry wall	yellow	0.1	QM
005	D	Wall	Ctr		P	Dry wall	yellow	0.0	QM
011	D	Window	Rgt	Sill	P	Wood	white	0.0	QM
Interior Room 002 Bath									
013	A	Window	Rgt	Sash	P	Wood	white	0.3	QM
Interior Room 003 Bedroom									
014	C	Floor	Rgt		P	Wood	blue	2.9	QM
015	D	Window	Rgt	Casing	P	Wood	white	0.0	QM
016	D	Window	Rgt	Sill	P	Wood	white	-0.2	QM
Interior Room 004 Hallway									
017	B	Window	Rgt	Casing	P	Wood	white	0.2	QM
018	B	Window	Rgt	Sill	P	Wood	white	0.0	QM
Interior Room 005 tv room									
019	D	Window	Rgt	Casing	P	Wood	white	0.2	QM
020	D	Window	Rgt	Sash	P	Wood	white	0.2	QM
Calibration Readings									
001								0.9	TC
002								0.9	TC
003								0.8	TC

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
027								0.9	TC
028								1.0	TC
029								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 05/23/14 10:38

INSPECTION FOR: Mr. David Holmes
Capital Studio Architects
1379 Main Street
East Hartford, CT 06108

PERFORMED AT: 155 Shore Road
Clinton, CT

INSPECTION DATE: 05/23/14

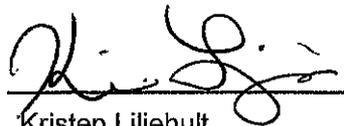
INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002206

A Lead-Based Paint Hazard Assessment was performed for the interiors and exteriors.

SIGNED: _____



Kristen Liljehult
Lead Inspector / Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite # 3
Terryville, CT 06786

Date: _____

5/23/14

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Inspection Date: 05/23/14 155 Shore Road
 Report Date: 5/23/2014 Clinton, CT
 Abatement Level: 1.0
 Report No. S#02753 - 05/23/14 10:38
 Total Readings: 16 Actionable: 4
 Job Started: 05/23/14 10:38
 Job Finished: 05/23/14 13:00

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 002 Facade B									
013	B	Facade	Ctr		P	Wood	blue	4.9	QM
exposed wood where shingles are missing.									
Interior Room 008 Bedroom 2									
008	-	Floor	Ctr		P	Wood	blue	4.7	QM
Interior Room 009 Bedroom 3									
011	-	Floor	Ctr		P	Wood	blue	4.6	QM
Interior Room 011 Hallway									
012	-	Floor	Ctr		P	Wood	blue	4.2	QM
Calibration Readings									
----- End of Readings -----									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Inspection Date: 05/23/14 155 Shore Road
 Report Date: 5/23/2014 Clinton, CT
 Abatement Level: 1.0
 Report No. S#02753 - 05/23/14 10:38
 Total Readings: 16
 Job Started: 05/23/14 10:38
 Job Finished: 05/23/14 13:00

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 002 Facade B									
013	B	Facade	Ctr		P	Wood	blue	4.9	QM
		exposed wood where shingles are missing.							
Interior Room 001 Foyer									
005	-	Ceiling	Ctr		P	Dry wall	white	-0.2	QM
Interior Room 002 Bath									
006	B	Wall	Ctr		P	Dry wall	Lime	-0.3	QM
Interior Room 005 Lvg/Dng Rm									
004	C	Wall	Ctr		P	Dry wall	yellow	0.0	QM
Interior Room 008 Bedroom 2									
007	-	Floor	Ctr		P	Wood	blue	-0.4	QM
008	-	Floor	Ctr		P	Wood	blue	4.7	QM
Interior Room 009 Bedroom 3									
009	-	Floor	Ctr		P	Wood	blue	-0.1	QM
010	-	Floor	Ctr		P	Wood	blue	0.0	QM
011	-	Floor	Ctr		P	Wood	blue	4.6	QM
Interior Room 011 Hallway									
012	-	Floor	Ctr		P	Wood	blue	4.2	QM
Calibration Readings									
001								1.0	TC
002								1.1	TC
003								1.2	TC
014								1.1	TC
015								1.0	TC
016								1.0	TC

---- End of Readings ----

APPENDIX 5

LEAD DUST SAMPLE LABORATORY REPORT



EMSL - MA
7 Constitution Way, Ste 107
Woburn, MA 01801
(781) 933-8411
(781) 933-8412 Fax

EMSL - CT
29 N. Plains Hwy, Unit 4
Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL - NY
307 West 38th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL - NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

Your Name: Brandy LeBlanc **Project Manager:** PF

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

Phone: 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsioch@eagleenviro.com

Project Name: Capital Studio Architects - Environmental Review **Project #:** 14-028.12T4

Project Location: 155 Shore Road, Clinton **Project State (US):** CT

TURNAROUND TIME

3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 4 Days 5 Days 6-10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

<p>ASBESTOS ANALYSIS</p> <p>PCM - Air</p> <p><input type="checkbox"/> NIOSH 7400 (A) Issue 2: August 1994</p> <p><input type="checkbox"/> OSHA w/TWA</p> <p>TEM AIR</p> <p><input type="checkbox"/> AMERA 40-CFR, Part 763 Subpart E</p> <p><input type="checkbox"/> NIOSH 7402 Issue 2</p> <p><input type="checkbox"/> EPA Level II</p> <p>PLM - Bulk</p> <p><input type="checkbox"/> EPA 600/R-93/116</p> <p><input type="checkbox"/> NY Stratified Point Count</p> <p><input type="checkbox"/> California Air Resource Board (CARB) 435</p> <p><input type="checkbox"/> NIOSH 9002</p> <p><input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1</p> <p><input type="checkbox"/> EPA Point Count (400 Points)</p> <p><input type="checkbox"/> EPA Point Count (1,000 Points)</p> <p><input type="checkbox"/> Standard Addition Point Count</p> <p>SOILS</p> <p><input type="checkbox"/> EPA Protocol Qualitative</p> <p><input type="checkbox"/> EPA Protocol Quantitative</p> <p><input type="checkbox"/> EMSL MSD-9000 Method fibers/gram</p> <p><input type="checkbox"/> Superfund EPA 540-R097-028 (dust generation)</p> <p>TEM BULK</p> <p><input type="checkbox"/> Drop Mount (Qualitative)</p> <p><input type="checkbox"/> Chatfield SOP-1988-02</p> <p><input type="checkbox"/> TEM NOB (Gravimetric) NY 198.4</p> <p>TEM MICROVAC</p> <p><input type="checkbox"/> ASTM D 5755-95 (Quantitative)</p> <p>TEM WIPE</p> <p><input type="checkbox"/> ASTM D-8480-89</p> <p><input type="checkbox"/> Qualitative <input type="checkbox"/></p> <p>TEM WATER</p> <p><input type="checkbox"/> EPA 100.1</p> <p><input type="checkbox"/> EPA 100.2</p> <p><input type="checkbox"/> NYS 198.2</p> <p><input type="checkbox"/> Other:</p>	<p>LEAD ANALYSIS</p> <p>Flame Atomic Absorption</p> <p><input checked="" type="checkbox"/> Wipe, SW846-7420 <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM</p> <p><input type="checkbox"/> Soil, SW846-7420</p> <p><input type="checkbox"/> Air, NIOSH 7082</p> <p><input type="checkbox"/> Chips, SW846-7420 or AOAC 5.009 (874.02)</p> <p><input type="checkbox"/> Wastewater, SW 846-7420</p> <p><input type="checkbox"/> TCLP LEAD SW846-1311/7420</p> <p>Graphite Furnace Atomic Absorption</p> <p><input type="checkbox"/> Air, NIOSH 7105</p> <p><input type="checkbox"/> Wastewater, SW846-7421</p> <p><input type="checkbox"/> Soil, SW846-7421</p> <p><input type="checkbox"/> Drinking Water, EPA 239.2</p> <p>ICP - Inductively Coupled Plasma</p> <p><input type="checkbox"/> Wipe, SW846-8010 <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM</p> <p><input type="checkbox"/> Soil, SW846-8010</p> <p><input type="checkbox"/> Air, NIOSH 7300</p>	<p>MICROBIAL ANALYSIS</p> <p>Air Samples</p> <p><input type="checkbox"/> Mold & Fungi by Air O Cell</p> <p><input type="checkbox"/> Mold & Fungi by Agar Plate count & Id</p> <p><input type="checkbox"/> Bacterial Count and Gram Stain</p> <p><input type="checkbox"/> Bacterial Count and Identification</p> <p>Water Samples</p> <p><input type="checkbox"/> Total Coliforms, Fecal Coliforms</p> <p><input type="checkbox"/> Escherichia Coli, Fecal Streptococcus</p> <p><input type="checkbox"/> Legionella</p> <p><input type="checkbox"/> Salmonella</p> <p><input type="checkbox"/> Giardia and Cryptosporidium</p> <p>Wipe and Bulk Samples</p> <p><input type="checkbox"/> Mold & Fungi - Direct Examination</p> <p><input type="checkbox"/> Mold & Fungi - (Culture follow up to direct examination if necessary)</p> <p><input type="checkbox"/> Mold & Fungi - Culture (Count & ID)</p> <p><input type="checkbox"/> Mold & Fungi - Culture (Count only)</p> <p><input type="checkbox"/> Bacterial Count & Gram Stain</p> <p><input type="checkbox"/> Bacterial Count & Identification (3 most prominent types)</p> <p><input type="checkbox"/> Other:</p>
<p>MATERIALS ANALYSIS</p> <p><input type="checkbox"/> Full Particle Identification</p> <p><input type="checkbox"/> Optical Particle Identification</p> <p><input type="checkbox"/> Dust Mites and Insect Fragments</p> <p><input type="checkbox"/> Particle Size & Distribution</p> <p><input type="checkbox"/> Product Comparison</p> <p><input type="checkbox"/> Paint Characterization</p> <p><input type="checkbox"/> Failure Analysis</p> <p><input type="checkbox"/> Corrosion Analysis</p> <p><input type="checkbox"/> Glove Box Containment Study</p> <p><input type="checkbox"/> Petrographic Examination of Concrete</p> <p><input type="checkbox"/> Portland Cement in Workplace Atmospheres (OSHA ID-143)</p> <p><input type="checkbox"/> Man Made Vitreous Fibers - MMVF's</p> <p><input type="checkbox"/> Synthetic Fiber Identification</p> <p><input type="checkbox"/> Other:</p>	<p>IAQ ANALYSIS</p> <p><input type="checkbox"/> Nuisance Dust (NIOSH 0500 & 0600)</p> <p><input type="checkbox"/> Airborne Dust (PM10, TSP)</p> <p><input type="checkbox"/> Silica Analysis by XRD <input type="checkbox"/> Niosh 7500</p> <p><input type="checkbox"/> HVAC Efficiency</p> <p><input type="checkbox"/> Carbon Black</p> <p><input type="checkbox"/> Airborne Oil Mist</p> <p><input type="checkbox"/> Other:</p>	

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	5/23 KL 01	5/23 KL 10	TOTAL SAMPLE #	10	
Relinquished:	<i>[Signature]</i>	Date:	5/23/14	Time:	AM
Received:	<i>[Signature]</i>	Date:	5/23/14	Time:	PM
Relinquished:	<i>[Signature]</i>	Date:	5/23/14	Time:	PM
Received:	<i>[Signature]</i>	Date:	5/23/14	Time:	10:55 AM

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018
 Phone/Fax: (212) 290-0051 / (212) 290-0058
<http://www.EMSL.com> manhattanlab@emsl.com

EMSL Order: 031419950
 CustomerID: EEVM50
 CustomerPO:
 ProjectID:

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. - CT
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 05/24/14 10:55 AM
 Collected: 5/23/2014

Project: 14-028.12T4/ CAPITAL STUDIO ARCHITECTS-ENVIRONMENTAL REVIEW/ 155 SHORE ROAD, CLINTON, CT

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
5/23 KL 01 Site: FLOOR AT ENTRY "C" Desc: LIVING/ DINING	0001	5/23/2014	5/25/2014	144 in ²	<10 µg/ft ²
5/23 KL 02 Site: FLOOR AT ENTRY "D" Desc: LIVING/ DINING	0002	5/23/2014	5/25/2014	144 in ²	17 µg/ft ²
5/23 KL 03 Site: FLOOR AT ENTRY Desc: FOYER	0003	5/23/2014	5/25/2014	144 in ²	<10 µg/ft ²
5/23 KL 04 Site: WINDOW SILL Desc: FOYER	0004	5/23/2014	5/25/2014	56 in ²	<26 µg/ft ²
5/23 KL 05 Site: FLOOR Desc: BATH	0005	5/23/2014	5/25/2014	144 in ²	<10 µg/ft ²
5/23 KL 06 Site: WINDOW WELL Desc: BATH	0006	5/23/2014	5/25/2014	90 in ²	24 µg/ft ²
5/23 KL 07 Site: FLOOR Desc: BEDROOM 3	0007	5/23/2014	5/25/2014	144 in ²	<10 µg/ft ²
5/23 KL 08 Site: WINDOW SILL Desc: BEDROOM 3	0008	5/23/2014	5/25/2014	108 in ²	<13 µg/ft ²
5/23 KL 09 Site: FIELD BLANK Desc: BEDROOM 3	0009	5/23/2014	5/25/2014	n/a	<10 µg/wipe
5/23 KL 10 Site: FIELD BLANK Desc: BEDROOM 3	0010	5/23/2014	5/25/2014	n/a	<10 µg/wipe

M. Apfeldorfer

Miron Apfeldorfer, Laboratory Manager
 or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 05/25/2014 01:43:42

APPENDIX 6
RADON TESTING REPORTS

RADON TESTING NOT PERFORMED

The structure has been elevated with the lowest level of the building not in contact with the ground.

APPENDIX 7
MOLD INSPECTION FORMS



MOLD MOISTURE READING FORM

Eagle Project No: 14-028.1274 Date: 4-11-14 Inspector: AC

Facility Address: 155 Shore road Clifton

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
Living RM	Door window	Wood	9.2.3	X		
	wall	S/R	9.3	X		
	wall	S/R	7.0	X		
bed RM	wall	S/R	3.8	X		
Hallway	Window	Wood	2.6	X		

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
	Living RM	39.8	62.8	38.1
	bed RM	40.0	63.3	38.5
	Hallway	40.5	63.3	38.8

APPENDIX 8

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES

APPLICATION NO. 2068

155 SHORE ROAD

CLINTON, CONNECTICUT

LEAD BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	\$4,900 DAY	\$ 4,900.00
SUBTOTAL			\$ 4,900.00
LEAD RENOVATION CONTINGENCY			\$ 980.00
LEAD RENOVATION TOTAL			\$ 5,880.00

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL \$ 5,880.00

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
PROJECT OVERSIGHT CONTINGENCY	1	\$650.00 EACH	\$ 650.00
SUBTOTAL			\$ 650.00
CONSULTING CONTINGENCY			\$ 65.00
CONSULTING TOTAL			\$ 715.00

GRAND TOTAL \$ 6,595.00

APPENDIX 9

**EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY
CERTIFICATES**

ENVIRONMENTAL TRAINING AND ASSESSMENT

Certificate of Completion Lead Inspector/Risk Assessor — Refresher

Awarded To

Kristen Liljehult
269 Baileyville Road
Middlefield, CT 06455

Has successfully completed, and passed an examination covering the contents of a EPA Model Eight (8) Hour Refresher Training Course for Lead Inspector/Risk Assessor and in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes. Approved under the New Standard and 40 CFR 745.225(c)(8)(i).

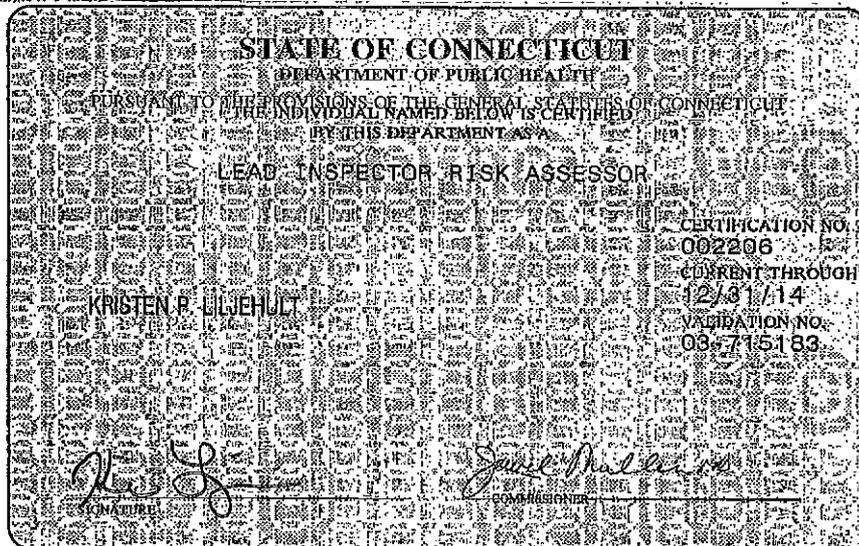
Course Date: 1/2/2014
Examination Date: 1/2/2014

Examination Grade: 88%
Certificate Number: LI/RAR-00350
Expiration Date: 1/2/2015

Stephen Craig

Stephen J. Craig, Training Manager

Boston Lead Company, LLC
dba
Environmental Training and Assessment
62 Washington Street
Middletown, CT 06457
860-347-7277



Certificate of Training

Awarded to

ANDREW CARNEVALE

For successful completion of a 4 Hour, 1/2 Day
**Asbestos Building Inspector
Annual Refresher Training**
January 2, 2014

This training was approved and given in accordance with the
Regulations for Connecticut State Agencies
RCSA 20-440-1-9 and RCESA 20-441 and meets the
requirements of the EPA Revised MAP under TSCA Title II of 4/4/94.

Presented by

Mystic Air Quality Consultants, Inc.

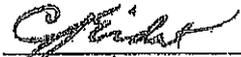
1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: ABIRF22726

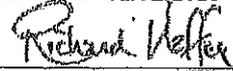
Exam Grade: 100

Expiration Date: 01/02/2015

Exam Date: 01/02/2014



Christopher J. Eident, CIH, CSP, RS



George Williamson, Training Director
Richard Haffey, Training Director

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

ANDREW C. CARNEVALE

LICENSE NO.
000650
CURRENT THROUGH
10/31/14
VALIDATION NO.
OS-702940


SIGNATURE


COMMISSIONER

CERT# L-600 - 770

CHEMSCOPE TRAINING DIVISION
LEAD INSPECTOR/RISK ASSESSOR REFRESHER
8 HOUR TRAINING CERTIFICATE
Andrew Carnevale
8 South Main Street Suite 3, Terryville CT

Has attended an 8 hour course on the subject discipline on
03/13/2014 and has passed a written and hands on skills examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

Examination Date: 03/13/2014

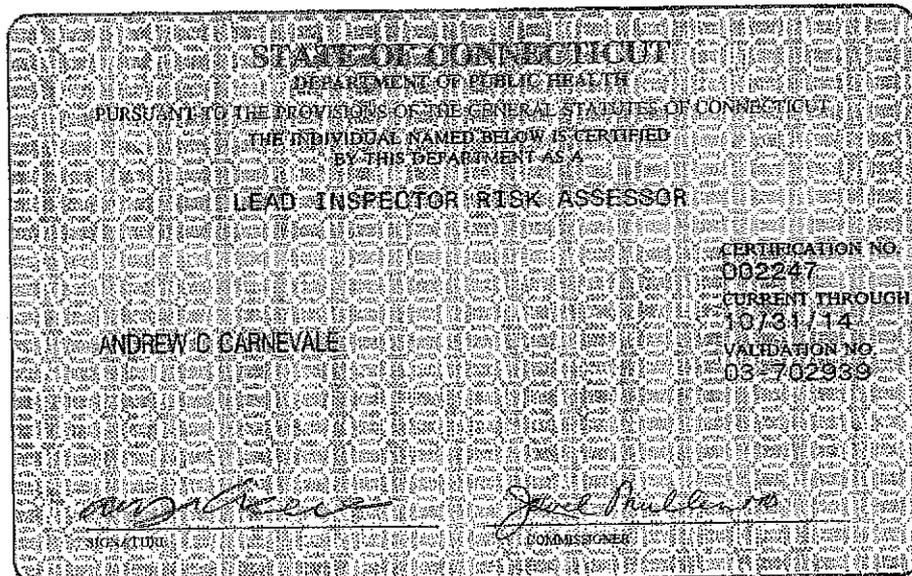
Expiration Date: 03/13/2015

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 746 and any other applicable Federal, State, or local requirements.



Ronald D. Arena or Brian Santos
Training Director Training Manager

Chem Scope, Inc.
15 Moulthrop Street
North Haven CT 06473
(203) 865-5605



State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EMSL ANALYTICAL, INC. - MANHATTAN, NY

LOCATED AT 307 West 38th Street IN New York, NY 10018

AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS

Examination For:

Bulk - Identification (PLM, TEM)
Air - Fiber Counting (PCM, TEM)
Water - TEM

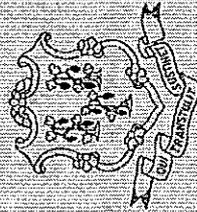
SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

Environmental Health & Housing

Examination For:

Lead in Paint
Lead Paint in Soil
Lead in Dust Wipes

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF October, 2012



Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION