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
125 Hickory Street
Norwich, Connecticut
Application #1971
Eagle Project No. 14-028.12T15

Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 125 Hickory Street located in Norwich, 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. Folino
Project Manager

\\Eaglesvr\public\2014 Files\2014 Reports\Capital Studio Architects\Hurricane Sandy\125 Hickory St-Norwich\125 Hickory St - HAZ Inspection Report.doc

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1. INTRODUCTION

On May 14, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 125 Hickory Street in Norwich, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead hazard screen, Radon testing 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 April 21, 2014. For the purpose of this project the following areas were inspected:

- Exterior siding at second floor bedroom
- Master bedroom ceiling

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 Hannah Hintz; a State of Connecticut licensed Asbestos Inspector (license #00816).

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 to 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 Kristen Liljehult; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002206).

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, toweled 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 125 Hickory Street, Norwich, 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 125 Hickory Street, Norwich, 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 1509. 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 (Between $5,000.00 and $25,000.00 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/cm^2. 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 $\geq$1.0 mg/cm^2 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

Eagle Environmental placed one (1) radon canister within the building. The canister was placed by Hannah Hintz on May 14, 2014 and was retrieved by Erik Foley on May 16, 2014. The canister was placed within the basement or lowest level of the building. The United States Environmental Protection Agency (USEPA) recommends that the test measurements be performed in the lowest level of the building.

The radon testing device utilized for the radon measurements is an Activated Charcoal Adsorption Devices or charcoal canister. The canister is placed in the center of the room where feasible. The testing location was away from any drafts or excessive air movements and windows and doors remained closed during the testing period. The measurements that are taken are considered short-term tests.

A short-term test is conducted from two to ninety days. The charcoal canister was sent to Radon Testing Corporation of America (RTCA) of Elmsford, New York for analysis. RTCA is listed in the USEPA Radon Measurement Proficiency (RMP) Program.

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 twenty-seven (27) bulk samples of suspect ACM were collected and twenty-six (26) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

Based upon the results of the analyses, the cement shingle siding was confirmed to be asbestos-containing. The asbestos cement shingles are present in various locations on the exterior facades. For the purpose of this report, it is presumed that the asbestos cement shingles are also located under the Texture 111 siding, which is scheduled for replacement. All other tested materials 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 eighty-two (82) XRF readings were collected during the lead-hazard screen of the building. From the eighty-two (82) readings, twenty-four (24) were found to contain lead-based paint.

The general inventory of surfaces containing high levels of lead include the following

- Bedroom 1: walls, baseboard, window trim components
- Bedroom 2: "A" and "B" walls, ceiling, baseboard, closet walls and ceiling
- Hallway: Stair treads, stair risers, stair "D" wall, window trim components (assumed)
- Exterior Facades: Cinderblock Foundation, Exterior wood window components, clapboard, rake boards, soffits, fascia boards

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 be between $5,000.00 and $25,000.00 per unit. All interior and exterior lead-based paint hazards must be controlled utilizing interim controls (temporary measures). This residence is considered target housing by the USEPA. All lead-hazard remediation work shall be performed in compliance with the USEPA Renovation, Remodeling and Painting (RRP) Rule as prescribed by 40 CFR Part 745.80 Subpart E. Including USEPA RRP Firm Certification, USEPA RRP Renovator Certification, Disclosure and Notification, Placement of Warning Signs, Lead-Safe Work Practice, Cleaning and Post Remediation Lead Dust Clearance by an approved USEPA method.

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 mg/cm^2 +/- 0.3 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

A total of four (4) soil samples were collected at the time of inspection. Soil-lead hazards were identified in the following locations:

- Bare soil along "C" side drip line
- Bare soil on "D" side by bulkhead doors

4.3 Radon

Radon is measured in Picocuries of radon per Liter of air or pCi/L. The USEPA has set a national action level of 4 pCi/L. Ambient concentrations of radon are approximately 0.4 pCi/L of radon for outside air. The USEPA recommends that short term tests that have results of 4 pCi/L or greater be confirmed with a second short-term test. Two short-term tests with results equal to or greater than 4 pCi/L require that radon mitigation be performed.

A review of the Indoor Radon Potential Map of Connecticut indicates a Radon Potential Rating of Moderate (22%). The Radon Potential Rating indicates the percentage of tested homes in this geographical area with basement air radon greater than or equal to 4.0 pCi/l (USEPA Action Level for Radon)

The result of the Radon testing was 9.1 pCi/L, which is above the USEPA action level. Based on the elevated results, it is recommended that a Radon mitigation system be installed in the basement. This building is constructed on rock ledge and a mitigation system is appropriate to reduce Radon levels within the building.

The Radon testing laboratory reports are provided in Appendix 5.

4.4 Mold

The physical inspection noted some water damage in the A/B corner and ceiling in the Master Bedroom and small quantity of black mold spores on the window systems in the same room. Per the home owner, the master bedroom, rear unfinished bedroom and bathroom upstairs were the rooms to sustain water damage. The bathroom has been gutted and remodeled and the rear bedroom has been gutted down to the studs and sheathing.

The exterior Texture 111 siding is impacted by water and is rotted. The water damaged siding is scheduled for removal. Minor signs of mold growth are noted on limited sections of the siding.

Limited areas of microbial cleaning are required for this project.

The Mold Inspection forms are provided in Appendix 6.

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 abatement and consulting cost estimates are provided in Appendix 7.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
125 HICKORY STREET
NORWICH, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Pitchd Gable	Cement shingle siding at gable	5-14-HH-26	MISC	15% Chrys			YES	5 SF	NF
		5-14-HH-27		DNA					

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD = NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	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
125 HICKORY STREET
NORWICH, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Master Bed Room	Sheetrock	5-14-HH-01	MISC	NAD			NO
		5-14-HH-02		NAD			
Master Bed Room	Joint compound	5-14-HH-03	MISC	NAD			NO
		5-14-HH-04		NAD			
Master Bed Room	Sheetrock/joint compound	5-14-HH-05	MISC	NAD			NO
		5-14-HH-06		NAD			
Master Bed Room, Bath Room	Skim coat plaster	5-14-HH-07	SURF	NAD			NO
		5-14-HH-08		NAD			
		5-14-HH-09		NAD			
Master Bed Room, Bath Room	Rough coat plaster	5-14-HH-10	SURF	NAD			NO
		5-14-HH-11		NAD			
		5-14-HH-12		NAD			
Master Bed Room	Textured ceiling paint	5-14-HH-13	SURF	NAD			NO
		5-14-HH-14		NAD			
		5-14-HH-15		NAD			
Unfinished Room	Batting insulation paper (residual insulation)	5-14-HH-16	MISC	NAD			NO
		5-14-HH-17		NAD			
Unfinshd Room	Red shingle from roof debris	5-14-HH-18	MISC	NAD			NO
		5-14-HH-19		NAD			
Roof, Unfinished Room	Grey rolled roofing shingle from debris	5-14-HH-20	MISC	NAD			NO
		5-14-HH-21		NAD			
Pitched Gable	Black vapor barrier paper under siding	5-14-HH-22	MISC	NAD			NO
		5-14-HH-23		NAD			
Pitched Gable	Black flashing cement at gable/door entry	5-14-HH-24	MISC	NAD			NO
		5-14-HH-25		NAD			

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD=NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

APPENDIX 1

FLOOR PLANS

CAPITAL STUDIOS ARCHITECTS

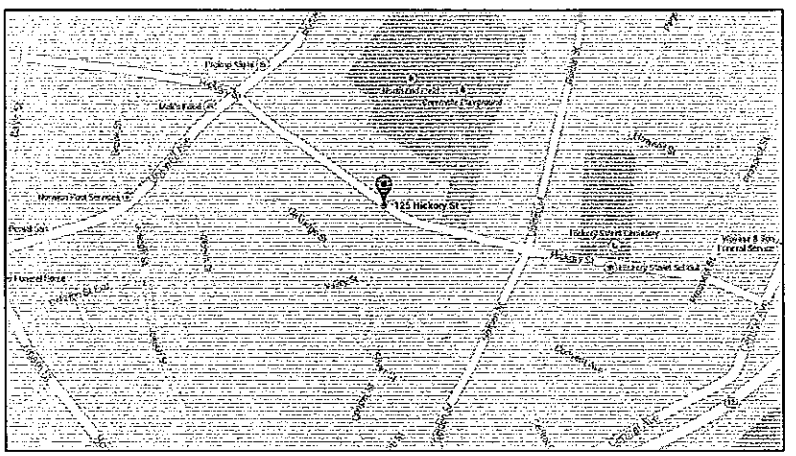
14-028.12T15

125 HICKORY STREET
NORWICH, CONNECTICUT

INDEX OF DRAWINGS

SP-1 SITE PLAN WITH SOIL SAMPLE LOCATIONS
FP-1 BASEMENT PLAN
FP-2 FIRST FLOOR PLAN
FP-3 SECOND FLOOR PLAN

LOCATION MAP



MAY 16, 2014

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

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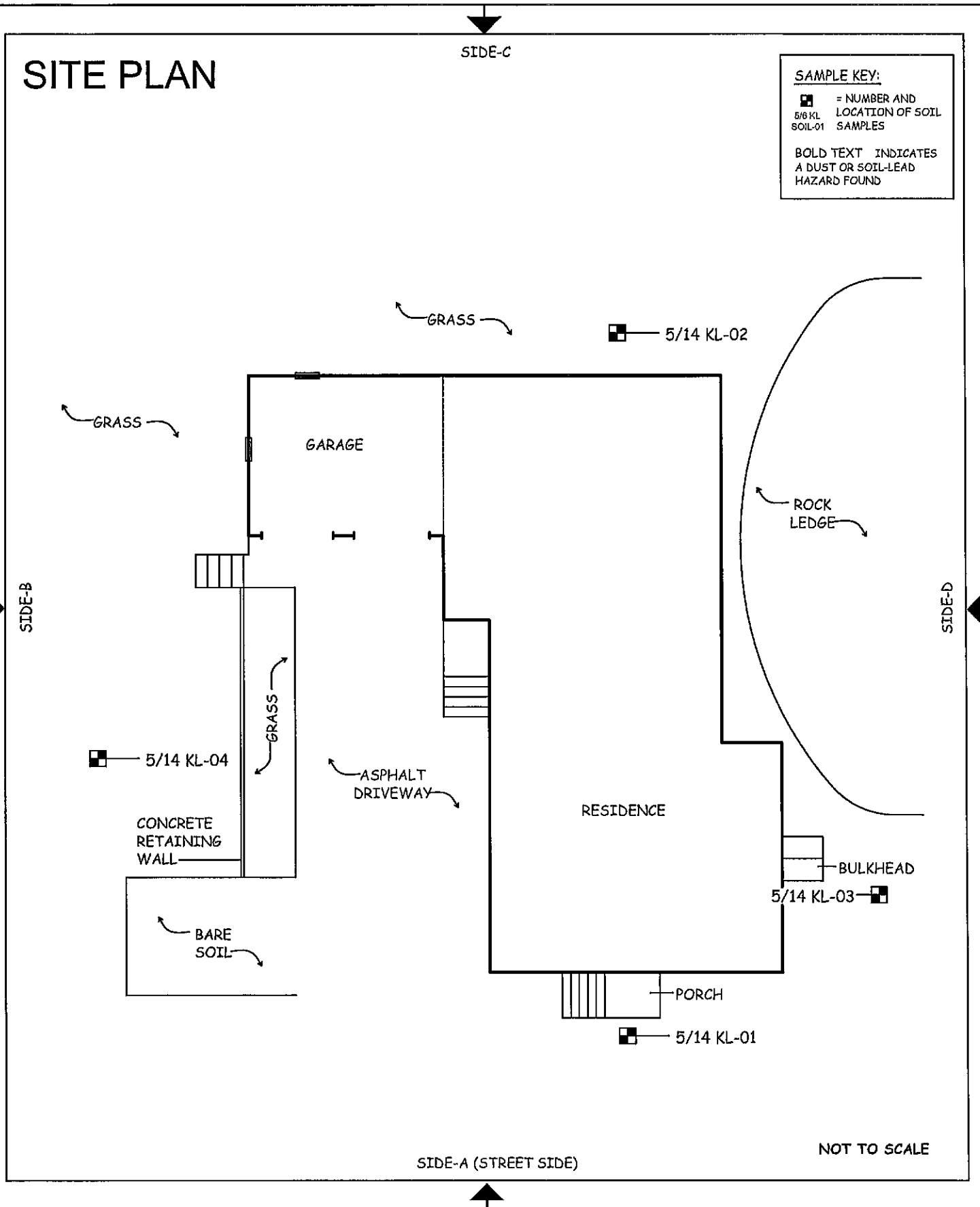
SITE PLAN



EAGLE Environmental, Inc.

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

SHEET NO.

SP-1

SHEET 1 OF 4

DATE: 05/16/14
PROJECT NO.: 14-028.12T15
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
125 HICKORY STREET
NORWICH, CONNECTICUT
SITE PLAN WITH SOIL SAMPLE LOCATIONS

\\Eaglesvr\public\2014 Files\2014 AutoCAD\Capital Studio Architects\125 HICKORY STREET\INSPECTION\cad\125 HICKORY STREET.dwg

BASEMENT

SIDE-C

WINDOW KEY:

CODE-WINDOW #
(EG. OW-19)

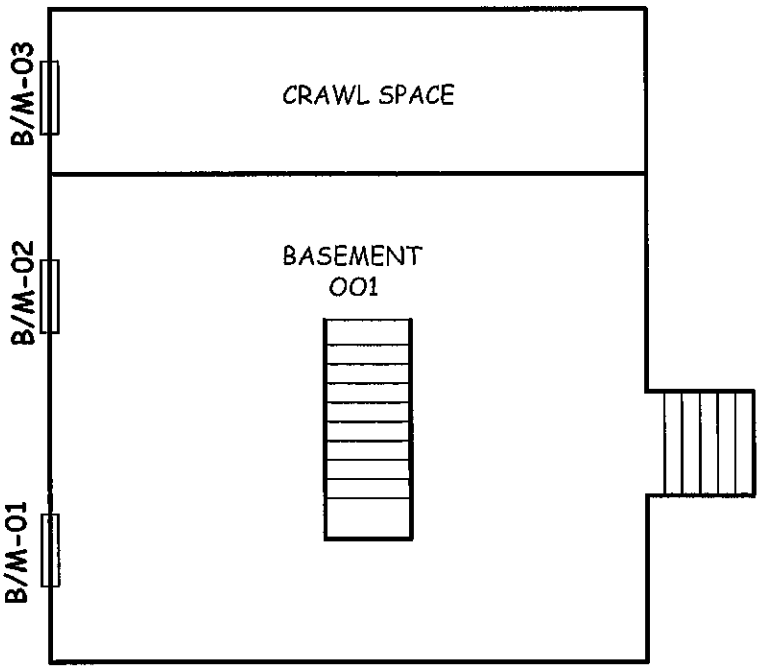
B = BASEMENT

M = METAL

OW = OLDER OR ORIGINAL WOOD SASH (TESTED POSITIVE FOR LEAD-BASED PAINT)

V = VINYL SASH

= INACCESSIBLE PHOTO TAKEN



SIDE-B

SIDE-D

NOT TO SCALE

SIDE-A (STREET SIDE)

EAGLE Environmental, Inc.

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

DATE: 05/16/14
PROJECT NO.: 14-028.12T15
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
125 HICKORY STREET
NORWICH, CONNECTICUT
BASEMENT PLAN

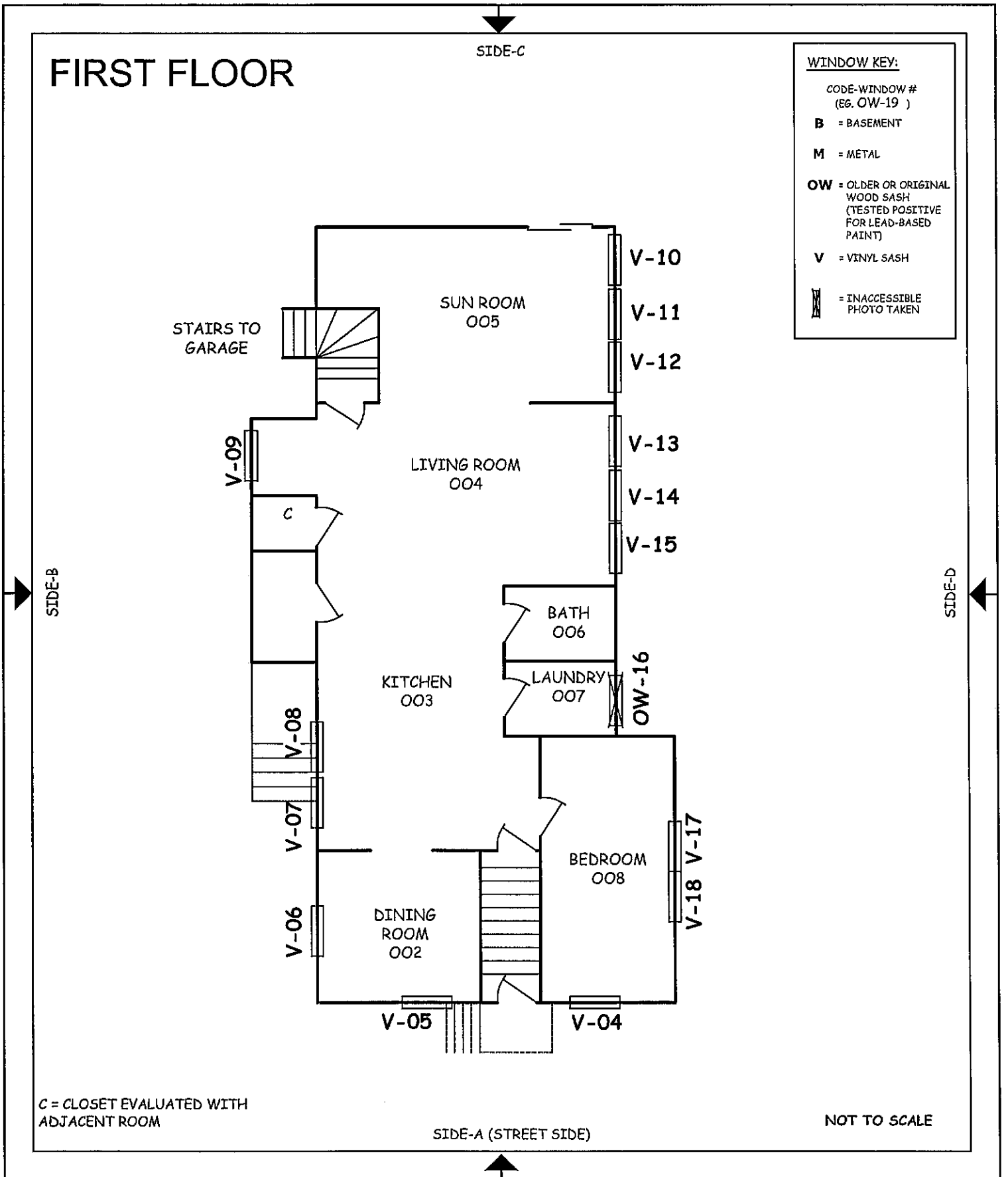
SHEET NO.

FP-1

SHEET 2 OF 4

\\Eaglesvr\public\2014 Files\2014 AutoCAD\Capital Studio Architects\125 HICKORY STREET\INSPECTION\cad\125 HICKORY STREET.dwg

FIRST FLOOR



C = CLOSET EVALUATED WITH ADJACENT ROOM

NOT TO SCALE

EAGLE Environmental, Inc.

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

DATE: 05/16/14
PROJECT NO.: 14-028.12T15
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
125 HICKORY STREET
NORWICH, CONNECTICUT
FIRST FLOOR PLAN

SHEET NO.

FP-2

SHEET 3 OF 4

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SECOND FLOOR

SIDE-C

WINDOW KEY:

CODE-WINDOW #
(EG. OW-19)

B = BASEMENT

M = METAL

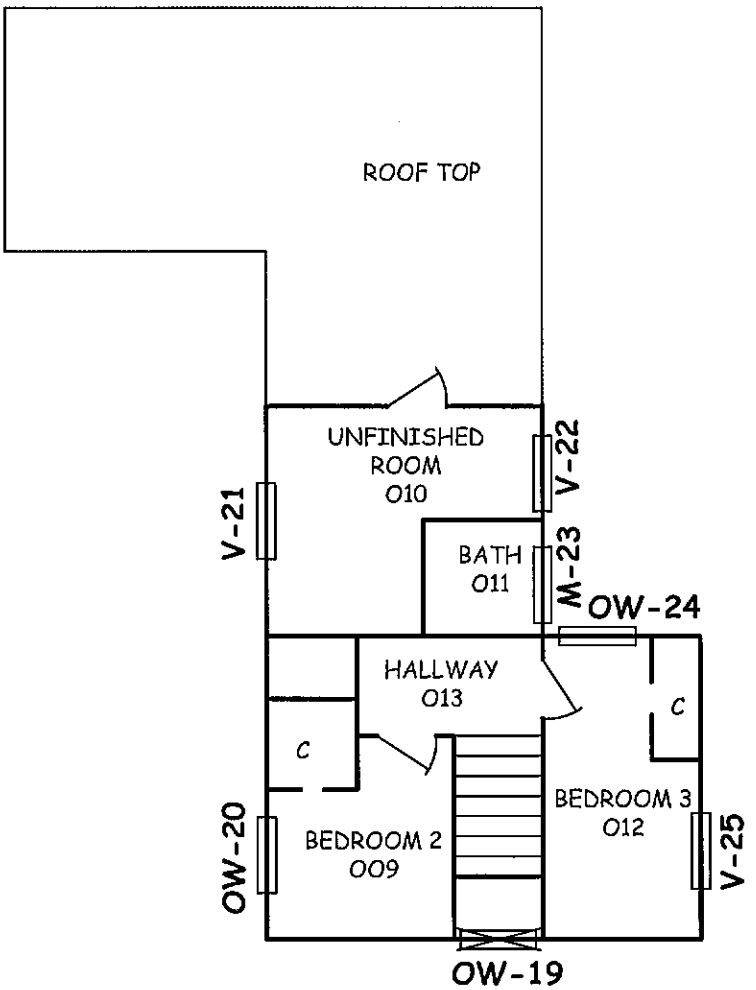
OW = OLDER OR ORIGINAL WOOD SASH (TESTED POSITIVE FOR LEAD-BASED PAINT)

V = VINYL SASH

= INACCESSIBLE PHOTO TAKEN

SIDE-B

SIDE-D



C = CLOSET EVALUATED WITH ADJACENT ROOM

SIDE-A (STREET SIDE)

NOT TO SCALE

EAGLE Environmental, Inc.

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TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

FP-3

SHEET 4 OF 4

DATE: 05/16/14
PROJECT NO.: 14-028.12T15
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
125 HICKORY STREET
NORWICH, CONNECTICUT
SECOND FLOOR PLAN

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APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

OrderID: 031418722

031418722

EMSL – MA	EMSL – CT	EMSL – NY	EMSL – NJ
7 Constitution Way, Ste 107	29 N. Plains Hwy, Unit 4	307 West 38th Street	107 Haddon Avenue
Woburn, MA 01801	Wallingford, CT 06492	New York, NY 10018	Westmont, NJ 08108
(781) 933-8411	(203) 284-5948	(866) 448-3675	(800) 220-3675
(781) 933-8412 Fax	(203) 284-5978 Fax	(212) 290-0058 Fax	(856) 858-4960 Fax

www.emsl.com

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 - Superstorm Sandy **Project #:** 14-028.12T15

Project Location: 125 Hickory Street, Norwich **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

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ 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:

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:

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)	5-14-HH-01	5-14-HH-27		TOTAL SAMPLE #	27
Relinquished:	HANNAH HINTZ	Date:	5-14-14	Time:	PM
Received:	RENEE SIOCH	Date:	5-14-14	Time:	PM
Relinquished:	RENEE SIOCH	Date:	5-15-14	Time:	PM
Received:		Date:	5/16/14	Time:	11:23AM

Page 1

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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

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
5-14-HH-01	Sheetrock	MasterBed		NAD
5-14-HH-02	Sheetrock	MasterBed		
5-14-HH-03	Joint compound	MasterBed		
5-14-HH-04	Joint compound	MasterBed		
5-14-HH-05	Sheetrock/joint compound	MasterBed		
5-14-HH-06	Sheetrock/joint compound	MasterBed		
5-14-HH-07	Skim coat plaster	MasterBed		
5-14-HH-08	Skim coat plaster	MasterBed		
5-14-HH-09	Skim coat plaster	Bath		
5-14-HH-10	Rough coat plaster	MasterBed		
5-14-HH-11	Rough coat plaster	MasterBed		
5-14-HH-12	Rough coat plaster	Bath		
5-14-HH-13	Textured ceiling paint	MasterBed		
5-14-HH-14	Textured ceiling paint	MasterBed		
5-14-HH-15	Textured ceiling paint	MasterBed		
5-14-HH-16	Batting insulation paper (residual insulation)	UnfnshdRm		
5-14-HH-17	Batting insulation paper (residual insulation)	UnfnshdRm		
5-14-HH-18	Red shingle from roof debris	UnfnshdRm		
5-14-HH-19	Red shingle from roof debris	UnfnshdRm		
5-14-HH-20	Grey rolled roofing shingle from debris	UnfnshdRm		
5-14-HH-21	Grey rolled roofing shingle from debris	Roof 1		
5-14-HH-22	Black vapor barrier paper under siding	PitchdGabl		
5-14-HH-23	Black vapor barrier paper under siding	PitchdGabl		
5-14-HH-24	Black flashing cement at gable/door entry	PitchdGabl		
5-14-HH-25	Black flashing cement at gable/door entry	PitchdGabl		

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(781) 933-8412 Fax	(203) 284-5978 Fax	(212) 290-0058 Fax	(856) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
5-14-HH-26	Cement shingle siding at gable	PitchdGabl		15% Chrys
5-14-HH-27	Cement shingle siding at gable	PitchdGabl		DNA

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
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http://www.EMSL.com manhattanlab@emsl.com

EMSL Order:	031418722
CustomerID:	EEVM50
CustomerPO:	14-028.12T15
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:	05/16/14 11:23 AM
Analysis Date:	5/17/2014
Collected:	5/14/2014

Project: **14-028.12T15/CAPITAL STUDIO-SUPERSTORM SANDY/125 HICKORY STREET, NORWICH, CT**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
5-14-HA-01 *031418722-0001*	MASTER BED - SHEETROCK	White Non-Fibrous Homogeneous	6%	Cellulose	9% 65% 20%	Mica Gypsum Non-fibrous (other)	**None Detected**
5-14-HA-02 *031418722-0002*	MASTER BED - SHEETROCK	Gray Non-Fibrous Homogeneous	3% 5%	Glass Cellulose	65% 27%	Gypsum Non-fibrous (other)	**None Detected**
5-14-HA-03 *031418722-0003*	MASTER BED - JOINT COMPOUND	White Non-Fibrous Homogeneous			8% 45% 47%	Mica Ca Carbonate Non-fibrous (other)	**None Detected**
5-14-HA-04 *031418722-0004*	MASTER BED - JOINT COMPOUND	White Non-Fibrous Homogeneous			5% 58% 37%	Mica Ca Carbonate Non-fibrous (other)	**None Detected**
5-14-HA-05 *031418722-0005*	MASTER BED - SHEETROCK/JOINT COMPOUND	Tan/White Non-Fibrous Heterogeneous	5%	Cellulose	55% 30% 10%	Gypsum Ca Carbonate Non-fibrous (other)	**None Detected**
5-14-HA-06 *031418722-0006*	MASTER BED - SHEETROCK/JOINT COMPOUND	Gray Non-Fibrous Homogeneous	5% 3%	Cellulose Glass	52% 40%	Gypsum Non-fibrous (other)	**None Detected**
5-14-HA-07 *031418722-0007*	MASTER BED - SKIM COAT PLASTER	White Non-Fibrous Homogeneous			80% 20%	Gypsum Non-fibrous (other)	**None Detected**

Analyst(s)
Henry Akintunde (16)
Noel Anderson (10)

James Hall, Laboratory Manager
or other approved signatory

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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 05/17/2014 10:19:33

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Project: **14-028.12T15/CAPITAL STUDIO-SUPERSTORM SANDY/125 HICKORY STREET, NORWICH, CT**

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
5-14-HA-08 *031418722-0008*	MASTER BED - SKIM COAT PLASTER	Various Non-Fibrous Homogeneous		78% Gypsum 22% Non-fibrous (other)	**None Detected**
5-14-HA-09 *031418722-0009*	BATH - SKIM COAT PLASTER	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
5-14-HA-10 *031418722-0010*	MASTER BED - ROUGH COAT PLASTER	Various Non-Fibrous Homogeneous	5% Cellulose	55% Quartz 15% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
5-14-HA-11 *031418722-0011*	MASTER BED - ROUGH COAT PLASTER	Various Non-Fibrous Homogeneous		45% Quartz 25% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
5-14-HA-12 *031418722-0012*	BATH - ROUGH COAT PLASTER	Gray Non-Fibrous Homogeneous	3% Cellulose	32% Quartz 35% Gypsum 30% Non-fibrous (other)	**None Detected**
5-14-HA-13 *031418722-0013*	MASTER BED - TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
5-14-HA-14 *031418722-0014*	MASTER BED - TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		9% Mica 55% Ca Carbonate 36% Non-fibrous (other)	**None Detected**

Analyst(s)
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Noel Anderson (10)

James Hall, Laboratory Manager
or other approved signatory

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Project: **14-028.12T15/CAPITAL STUDIO-SUPERSTORM SANDY/125 HICKORY STREET, NORWICH, CT**

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

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
5-14-HA-15 *031418722-0015*	MASTER BED - TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous			5% 42% 53%	Mica Ca Carbonate Non-fibrous (other)	**None Detected**
5-14-HA-16 *031418722-0016*	UNFNSHDRM - BATTING INSULATION PAPER (RESIDUAL INSULATION)	Brown/Black Fibrous Homogeneous	87% 3%	Cellulose Min. Wool	10%	Non-fibrous (other)	**None Detected**
5-14-HA-17 *031418722-0017*	UNFNSHDRM - BATTING INSULATION PAPER (RESIDUAL INSULATION)	Brown/Black Fibrous Homogeneous	90% 3%	Cellulose Glass	7%	Non-fibrous (other)	**None Detected**
5-14-HA-18 *031418722-0018*	UNFNSHDRM - RED SHINGLE FROM ROOF DEBRIS	Black Non-Fibrous Homogeneous			55% 45%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-19 *031418722-0019*	UNFNSHDRM - RED SHINGLE FROM ROOF DEBRIS	Black Non-Fibrous Homogeneous			55% 45%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-20 *031418722-0020*	UNFNSHDRM - GREY ROLLED ROOFING SHINGLE FROM DEBRIS	Black Non-Fibrous Homogeneous	5%	Glass	45% 50%	Matrix Non-fibrous (other)	**None Detected**

Analyst(s)
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Noel Anderson (10)

James Hall, Laboratory Manager
or other approved signatory

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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

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Project: **14-028.12T15/CAPITAL STUDIO-SUPERSTORM SANDY/125 HICKORY STREET, NORWICH, CT**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
5-14-HA-21 *031418722-0021*	ROOF 1 - GREY ROLLED ROOFING SHINGLE FROM DEBRIS	Black Non-Fibrous Homogeneous	3%	Glass	36% 61%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-22 *031418722-0022*	PITCHDGABL - BLACK VAPOR BARRIER PAPER UNDER SIDING	Black Fibrous Homogeneous	15%	Cellulose	44% 41%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-23 *031418722-0023*	PITCHDGABL - BLACK VAPOR BARRIER PAPER UNDER SIDING	Black Fibrous Homogeneous	18%	Cellulose	70% 12%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-24 *031418722-0024*	PITCHDGABL - BLACK FLASHING CEMENT AT GABLE/DOOR ENTRY	Black Non-Fibrous Homogeneous	3%	Cellulose	46% 51%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-25 *031418722-0025*	PITCHDGABL - BLACK FLASHING CEMENT AT GABLE/DOOR ENTRY	Black Non-Fibrous Homogeneous			25% 75%	Matrix Non-fibrous (other)	**None Detected**
5-14-HA-26 *031418722-0026*	PITCHDGABL - CEMENT SHINGLE SIDING AT GABLE	Gray Non-Fibrous Homogeneous			85%	Non-fibrous (other)	**15% Chrysotile**

Analyst(s)

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Noel Anderson (10)

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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

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Analysis Date:	5/17/2014
Collected:	5/14/2014

Project: **14-028.12T15/CAPITAL STUDIO-SUPERSTORM SANDY/125 HICKORY STREET, NORWICH, CT**

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

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
5-14-HA-27 *031418722-0027*	PITCHDGABL - CEMENT SHINGLE SIDING AT GABLE					**Stop Positive (Not Analyzed)**

Analyst(s)

Henry Akintunde (16)
Noel Anderson (10)

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 NY022, CT PH-0170, MA AA000170

Initial report from 05/17/2014 10:19:33

THIS IS THE LAST PAGE OF THE REPORT.

APPENDIX 3

LEAD-BASED PAINT XRF INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01509 - 05/14/14 08:55

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

PERFORMED AT: 125 Hickory Street
Norwich, CT

INSPECTION DATE: 05/14/14

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01509

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002206

A Lead-Hazard Inspection was performed for the interiors and exteriors of the dwelling.

SIGNED: _____ Date: 5/14/14

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

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

Inspection Date:	05/14/14	125 Hickory Street
Report Date:	5/14/2014	Norwich, CT
Abatement Level:	1.0	
Report No.	S#01509 - 05/14/14 08:55	
Total Readings:	82 Actionable: 24	
Job Started:	05/14/14 08:55	
Job Finished:	05/14/14 11:23	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 002 Facade B									
056	B	Foundation	Ctr		P	Brick	green	3.0	QM
057	B	Base Window	Rgt	Screen fram	P	Metal	green	1.4	QM
Exterior Room 003 Facade C									
075	C	Facade	Lft		P	Wood	Yellow	>9.9	QM
	upper story off unfinished room								
076	C	Rakeboard	Lft		P	Wood	green	>9.9	QM
078	C	Fascia	Lft		P	Wood	White	>9.9	QM
077	C	Soffit	Lft		P	Wood	White	>9.9	QM
Interior Room 008 Bedroom 1									
017	A	Wall	Ctr		P	Plaster	Yellow	5.8	QM
016	B	Wall	Ctr		P	Plaster	Yellow	1.7	QM
020	B	Baseboard	Ctr		P	Wood	White	>9.9	QM
018	C	Wall	Ctr		P	Plaster	Yellow	5.8	QM
019	D	Wall	Ctr		P	Plaster	Yellow	3.6	QM
012	D	Window	Lft	Casing	P	Wood	White	4.4	QM
013	D	Window	Lft	Sill	P	Wood	White	9.7	QM
Interior Room 009 Bedroom 2									
027	-	Ceiling	Ctr		P	Plaster	Yellow	4.7	QM
028	-	Ceiling	Ctr		P	Plaster	White	9.5	QM
026	A	Wall	Ctr		P	Plaster	Yellow	6.1	QM
024	B	Wall	Ctr		P	Plaster	Yellow	5.0	QM
029	B	Baseboard	Ctr		P	Wood	White	>9.9	QM
036	B	Window	Rgt	Ext Sash	P	Wood	green	1.4	QM
040	C	Closet	Lft	Wall	P	Plaster	Yellow	4.9	QM
041	C	Closet	Lft	Ceiling	P	Plaster	Yellow	8.3	QM
Interior Room 013 Hallway									
021	-	Stairs	Ctr	Treads	P	Wood	White	>9.9	QM
022	-	Stairs	Ctr	Risers	P	Wood	White	>9.9	QM
042	D	Stairs	Ctr	Wall	P	Plaster	Yellow	3.3	QM
	Wall defective by area closed off by inaccessible window.								
Calibration Readings									

---- End of Readings ----

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

Inspection Date:	05/14/14	125 Hickory Street
Report Date:	5/14/2014	Norwich, CT
Abatement Level:	1.0	
Report No.	S#01509 - 05/14/14 08:55	
Total Readings:	82	
Job Started:	05/14/14 08:55	
Job Finished:	05/14/14 11:23	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
051	A	Facade	Ctr		P	Wood	Beige	0.1	QM
052	A	Foundation	Ctr		P	Brick	green	-0.1	QM
053	A	Door	Ctr	N\A	P	Metal	green	0.1	QM
054	A	Door	Ctr	Stop	P	Wood	White	-0.1	QM
Comment:									
Window trim enclosed with aluminum									
Exterior Room 002 Facade B									
063	B	Overhang	Lft	Ceiling	P	Wood	White	0.1	QM
055	B	Facade	Ctr		P	Cement	Beige	-0.1	QM
056	B	Foundation	Ctr		P	Brick	green	3.0	QM
058	B	Base Window	Ctr	Sash	P	Metal	green	0.5	QM
059	B	Oil hub	Ctr		P	Metal	Gray	0.3	QM
057	B	Base Window	Rgt	Screen fram	P	Metal	green	1.4	QM
060	B	Door	Lft	N\A	P	Wood	green	0.6	QM
061	B	Door	Lft	threshold	P	Wood	green	0.0	QM
062	B	Door	Lft	Kick plate	P	Wood	green	0.1	QM
Exterior Room 003 Facade C									
075	C	Facade	Lft		P	Wood	Yellow	>9.9	QM
	upper story off unfinished room								
076	C	Rakeboard	Lft		P	Wood	green	>9.9	QM
078	C	Fascia	Lft		P	Wood	White	>9.9	QM
079	C	Facade	Lft		P	Wood	Beige	0.0	QM
071	C	Facade	Ctr		P	Wood	Beige	-0.2	QM
077	C	Soffit	Lft		P	Wood	White	>9.9	QM
Exterior Room 004 Facade D									
074	D	Bulkhead	Lft		P	Metal	green	0.0	QM
072	D	Facade	Ctr		P	Cement	Beige	0.1	QM
073	D	Foundation	Ctr		P	Brick	green	0.9	TC
Exterior Room 005 Garage									
067	A	Overhead Doo	Lft		P	Wood	White	-0.1	QM
064	A	Overhead Doo	Rgt		P	Wood	green	0.0	QM
065	A	Overhead Doo	Rgt	Trim	P	Wood	green	0.1	QM
066	A	Overhead Doo	Rgt	Lintel	P	Wood	White	-0.1	QM
068	B	Window	Ctr	Sash	P	Metal	White	0.3	QM
070	C	Facade	Ctr		P	Block	Beige	0.2	QM
069	C	Window	Ctr	Sash	P	Metal	White	0.5	QM

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 002 Dining Rm									
004	C	Wall	Ctr		P	Dry wall	Yellow	-0.1	QM
Interior Room 004 Living Rm									
005	A	Stairs	Ctr	Risers	P	Wood	White	0.1	QM
Interior Room 005 Sun Room									
008	A	Wall	Ctr		P	Dry wall	Paper	-0.2	QM
009	B	Wall	Ctr		P	Dry wall	Paper	0.0	QM
010	C	Wall	Ctr		P	Dry wall	Paper	-0.1	QM
007	D	Wall	Ctr		P	Dry wall	Paper	-0.1	QM
006	D	Window	Ctr	Sill	P	Wood	White	-0.1	QM
Interior Room 007 Laundry Rm									
011	-	Ceiling	Ctr		P	Dry wall	White	0.0	QM
Interior Room 008 Bedroom 1									
017	A	Wall	Ctr		P	Plaster	Yellow	5.8	QM
016	B	Wall	Ctr		P	Plaster	Yellow	1.7	QM
020	B	Baseboard	Ctr		P	Wood	White	>9.9	QM
018	C	Wall	Ctr		P	Plaster	Yellow	5.8	QM
019	D	Wall	Ctr		P	Plaster	Yellow	3.6	QM
012	D	Window	Lft	Casing	P	Wood	White	4.4	QM
015	D	Window	Lft	Stop	P	Wood	White	-0.1	QM
014	D	Window	Lft	Apron	P	Wood	White	0.0	QM
013	D	Window	Lft	Sill	P	Wood	White	9.7	QM
Interior Room 009 Bedroom 2									
027	-	Ceiling	Ctr		P	Plaster	Yellow	4.7	QM
028	-	Ceiling	Ctr		P	Plaster	White	9.5	QM
026	A	Wall	Ctr		P	Plaster	Yellow	6.1	QM
024	B	Wall	Ctr		P	Plaster	Yellow	5.0	QM
029	B	Baseboard	Ctr		P	Wood	White	>9.9	QM
030	B	Window	Rgt	Casing	P	Wood	White	0.0	QM
033	B	Window	Rgt	Stop	P	Wood	White	0.3	QM
036	B	Window	Rgt	Ext Sash	P	Wood	green	1.4	QM
038	B	Window	Rgt	Jamb	P	Wood	White	0.1	QM
039	B	Window	Rgt	Blindstop	P	Wood	White	0.3	QM
034	B	Window	Rgt	Sash	P	Wood	White	-0.1	QM
035	B	Window	Rgt	Well	P	Wood	Gray	0.3	QM
032	B	Window	Rgt	Apron	P	Wood	White	0.0	QM
031	B	Window	Rgt	Sill	P	Wood	White	-0.1	QM
037	B	Window	Rgt	Part. bead	P	Wood	White	-0.2	QM
040	C	Closet	Lft	Wall	P	Plaster	Yellow	4.9	QM
041	C	Closet	Lft	Ceiling	P	Plaster	Yellow	8.3	QM
025	D	Wall	Ctr		P	Plaster	Yellow	-0.1	QM
Interior Room 013 Hallway									
047	-	Stored Door	Ctr		P	Wood	White	-0.1	QM

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
021	-	Stairs	Ctr	Treads	P	Wood	White	>9.9	QM
022	-	Stairs	Ctr	Risers	P	Wood	White	>9.9	QM
050	B	Base Window	Lft	Sash	P	Metal	black	0.0	QM
049	B	Base Window	Rgt	Sash	P	Metal	black	0.0	QM
023	B	Wall	Ctr		P	Dry wall	White	0.1	QM
043	B	Stairs	Ctr	Wall	P	Dry wall	green	-0.1	QM
048	D	Bulkhead	Rgt		P	Metal	red	0.0	QM
045	D	Stairs	Ctr	Stringers	P	Wood	White	0.3	QM
046	D	Stairs	Ctr	Underpan	P	Wood	White	0.0	QM
042	D	Stairs	Ctr	Wall	P	Plaster	Yellow	3.3	QM
	Wall defective by area closed off by inaccessible window.								
044	D	Stairs	Ctr	Wall	P	Dry wall	green	-0.1	QM
Calibration Readings									
001								0.9	TC
002								1.2	TC
003								1.0	TC
080								1.0	TC
081								0.9	TC
082								1.1	TC

---- End of Readings ----

APPENDIX 4

LEAD DUST AND SOIL SAMPLE LABORATORY REPORT

OrderID: 031418578

EMSL – MA	EMSL – CT	EMSL – NY	EMSL – NJ
7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	307 West 38th Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax

www.emsl.com

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

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3 031418578

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; rsloch@eagleenviro.com

Project Name Capital Studio Arch **Project #:** 14-028.12T15

Project Location: 125 Hickory St, Norwich, CT **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

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ 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:

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:

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)	5/14 KL 01	5/14 KL 10		TOTAL SAMPLE #	10
Relinquished:	[signature]	Date:	5/14/14	Time:	PM
Received:	[signature]	Date:	5/14/14	Time:	PM
Relinquished:	[signature]	Date:	5/14/14	Time:	PM
Received:	[signature]	Date:	5/15/14	Time:	10:48

Page 1

OrderID: 031418578

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) 448-8675
(212) 290-0058 Fax

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

www.emsl.com

031418578

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
5/14 KL 01	Floor at Entry	Dining Room		144
5/14 KL 02	window well	↓		3x24
5/14 KL 03	Floor at Entry	Kitchen		144
5/14 KL 04	window sill	↓		4x30
5/14 KL 05	Floor at Entry	Sun Room		144
5/14 KL 06	window sill	↓		8x24
5/14 KL 07	Floor	Bedroom 2		144
5/14 KL 08	window sill	↓		3x30
5/14 KL 09	Field Blank			n/a
5/14 KL 10	Field Blank			n/a

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: 031418578
CustomerID: EEVM50
CustomerPO:
ProjectID:

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

Phone: (860) 589-8257
Fax: (860) 585-7034
Received: 05/15/14 10:19 AM
Collected: 5/14/2014

Project: **14-028.12T15/ CAPITAL STUDIO ARCH/ 125 HICKORY ST NORWICH CT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
5/14-KL-01	*0001*	5/14/2014	5/15/2014	144 in²	<10 µg/ft²
	Site: FLOOR AT ENTRY Desc: DINING ROOM				
5/14-KL-02	*0002*	5/14/2014	5/15/2014	72 in²	200 µg/ft²
	Site: WINDOW WELL Desc: DINING ROOM				
5/14-KL-03	*0003*	5/14/2014	5/15/2014	144 in²	<10 µg/ft²
	Site: FLOOR AT ENTRY Desc: KITCHEN				
5/14-KL-04	*0004*	5/14/2014	5/15/2014	120 in²	<12 µg/ft²
	Site: WINDOW SILL Desc: KITCHEN				
5/14-KL-05	*0005*	5/14/2014	5/15/2014	144 in²	<10 µg/ft²
	Site: FLOOR AT ENTRY Desc: SUN ROOM				
5/14-KL-06	*0006*	5/14/2014	5/15/2014	192 in²	<7.5 µg/ft²
	Site: WINDOW SILL Desc: SUN ROOM				
5/14-KL-07	*0007*	5/14/2014	5/15/2014	144 in²	28 µg/ft²
	Site: FLOOR Desc: BEDROOM 2				
5/14-KL-08	*0008*	5/14/2014	5/15/2014	90 in²	19 µg/ft²
	Site: WINDOW SILL Desc: BEDROOM 2				
5/14-KL-09	*0009*	5/14/2014	5/15/2014	n/a	<10 µg/wipe
	Site: FIELD BLANK				
5/14-KL-10	*0010*	5/14/2014	5/15/2014	n/a	<10 µg/wipe
	Site: FIELD BLANK				

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 11508

Initial report from 05/16/2014 09:20:16

OrderID: 031418574

EMSL – MA	EMSL – CT	EMSL – NY	EMSL – NJ
7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	307 West 38th Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax

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

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3 031418574

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; rsloch@eagleenviro.com

Project Name Capital Studio Arch **Project #:** 14-028 12T15

Project Location: 125 Hickory St, Norwich **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

MATERIALS ANALYSIS
- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ 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:

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:

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)	5/14 KL SOIL 01	5/14 KL SOIL 04	TOTAL SAMPLE #	4
Relinquished:		Date: 5/14/14	Time: PM	
Received:		Date: 5/14/14	Time: PM	
Relinquished:		Date: 5/14/14	Time: PM	
Received:		Date: 5/15/14	Time: 10:18 AM	

OrderID: 031418574

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

www.emsl.com

03141854

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
5/14 KL SOIL 01	Bare soil foundation out to road	"A" side		27yd²
5/14 KL SOIL 02	Bare soil along dripline (house + garage)	"C" side		40yd²
5/14 KL SOIL 03	Bare soil by Bulkhead	"D" side		15yd²
5/14 KL SOIL 04	Bare soil under swings	Playscape Area		7yd²

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:	031418574
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

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

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	05/15/14 10:18 AM
Collected:	5/14/2014

Project: **14-028.12T15/ CAPITAL STUDIO ARCH/ 125 HICKORY ST NORWICH/ CT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
5/14-KL-SOIL-01	*0001*	5/14/2014	5/16/2014	90 mg/Kg
Site: BARE SOIL FOUNDATION OUT TO ROAD "A" SIDE				
5/14-KL-SOIL-02	*0002*	5/14/2014	5/16/2014	440 mg/Kg
Site: BARE SOIL ALONG DRIPLINE (HOUSE & GARAGE) "C" SIDE				
5/14-KL-SOIL-03	*0003*	5/14/2014	5/16/2014	1300 mg/Kg
Site: BARE SOIL BY BULKHEAD "D" SIDE				
5/14-KL-SOIL-04	*0004*	5/14/2014	5/16/2014	310 mg/Kg
Site: BARE SOIL UNDER SWINGS PLAYSCAPE AREA				

M. Apfeldorfer

Miron Apfeldorfer, Laboratory Manager
or other approved signatory

*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. 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. Samples received in good condition unless otherwise noted. Results reported based on dry weight. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 05/16/2014 09:49:56

APPENDIX 5

RADON TESTING REPORTS

PC1405200086

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 05/20/2014

Mr. Peter Folino
EAGLE ENVIRONMENTAL
8 South Main Street
Suite #3
Terryville, CT 06786-

Client: Unknown
Test Location: 125 Hickory Street
Norwich, CT 06360-
Individual Canister Results

Canister ID# :	2310040	Test Start :	05/14/2014 @ 09:55
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/16/2014 @ 09:30
Location :	Basement	Received:	05/20/2014 @ 17:14
Radon Level :	9.1 pCi/L	Analyzed:	05/20/2014 @ 17:16

Radon concentration has been estimated due to insufficient exposure. EPA protocol requires a minimum of 48 hours.
Error for Measurement is: ± 0.6 pCi/L

The results indicate that at least one testing device registered at or above the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends mitigation if the average of two short-term tests taken in the lowest level of the building suitable for occupancy show radon levels that are equal to or greater than 4.0 pCi/L.

For information on how to reduce radon levels in your home, please review the EPA booklet: Consumer's Guide to Radon Reduction (www.epa.gov/radon/pdfs/consguid.pdf) and contact your state health department. The EPA maintains a radon information website, including copies of its publications, at www.epa.gov/iaq/radon.

For New Jersey clients: Please see the attached guidance document entitled Radon Testing and Mitigation: The Basics for further information.

For New York clients: If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free1-800-458-1158.

PLEDGE OF ASSURED QUALITY

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of radon in air (EPA 402-R-92-004). The analytical results relate only to the samples tested, in the condition received by the lab, and that calculations were based upon the information supplied by client. RTCA and its personnel do not assume responsibility or liability, collectively and individually, for analysis results when detectors have been improperly handled or placed by the consumer, nor does RTCA and its personnel accept responsibility for any financial or health consequences of subsequent action or lack of action, taken by the customer or it's consultants based on RTCA-provided results.

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609

(914)345-3380
FAX (914)345-8546

2 Hayes Street, Elmsford, NY 10523
www.rtca.com

Radon Testing Corp. of America
2 Hayes Street
Elmsford, NY 10523
Phone: (914) 345-3380

Radon Testing Summary Sheet

Please fill out all pertinent information legibly

Mailing Address:

Contact: Peter J. Folino

Company/Agency/Board of Ed: Eagle Environmental
Address: 8 South Main Street Suite 3

City: Terryville State: CT Zip: 06786

Project Code (if any) 14-028.12T15
Fax or email: 860 585-7034
Phone 860 589-8257

Building/School Information

School District:

School Code Number:

County:

Municipality:

Building/School Name:

Test Location Street Address: 125 Hickory Street, Norwich, Connecticut

Placed By ID# EF Retrieved by ID# EF

Start Date: 5-14-2014 Stop Date: 5-16-2014

Weather During Test cloudy, humid, 65-70 degrees (F)

Total # of detectors for this building 1

Instructions: *Tear of the center bar code label from canister and affix to sheet in space provided. Please make sure top bar code label is left on detector. Identify test location for each detector in*
Space provided for that detector (room #, location in room etc.) Use additional sheets as necessary. Please mark clearly if any detector is missing or damaged at retrieval.

05/14/14 5/16/14

Start Time: 0955 Stop Time: 0930 Duplicate?

Room# or other identifier Basement

Blank? Floor:

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2310040

Start Time: Stop Time: Duplicate?

Room# or other identifier

Blank? Floor:

Start Time: Stop Time: Duplicate?

Room# or other identifier

Blank? Floor:

Start Time: Stop Time: Duplicate?

Room# or other identifier

Blank? Floor:

Start Time: Stop Time: Duplicate?

Room# or other identifier

Blank? Floor:

Start Time: Stop Time: Duplicate?

Room# or other identifier

Blank? Floor:

APPENDIX 6

MOLD INSPECTION FORMS

EAGLE Environmental, Inc.

MOLD OBSERVATION FORM

Eagle Project No: 14-028.12T15 Date: 5/14/14 Inspector: HH

Facility Address: 125 Hickory St, Norwich

Location	Observation	Sample Number
Bedroom 2(009)	Black mold spore growth at "B" side window sash and aluminum window sash. (12 LF)	

EAGLE Environmental, Inc.

MOLD CONDENSATOR FORM

Eagle Project No: 14-028.12T15 Date: 5/14/14 Inspector: HH

Facility Address: 125 Hickory Street, Norwich

CONDENSATOR MODE							
ROOM	COM-PONENT	SUB-STRATE	% REL. HUMIDITY	AIR TEMP.	DEW POINT TEMP.	SURFACE TEMP.	TEMP DIFF.
Master Bed	Ceiling	Plaster	47.0	68.0	47.5	65.3	18.0
	Wall	Sheetrock	47.1	69.6	48.6	68.7	20.1
	Wall	Plaster	45.9	70.2	48.6	66	17.4
	Window	Wood	45.9	68.5	48.2	23.6	24.6
Unfinished Rm	Stud	Wood	41.0	71.2	48.7	73.2	24.5
	Joist	Wood	41.0	71.2	48.2	73.0	24.8
	Roof Sheathing	Wood	41.0	71.2	48.1	77.4	29.8
	Wall Sheathing	Wood	41.0	71.2	48.0	77.9	29.9
Ext. Gable	T1-11	Wood	23.0	82.4	40.5	83.7	42.9

EAGLE Environmental, Inc.

MOLD MOISTURE READING FORM

Eagle Project No: 14-028.12T15 Date: 5/14/14 Inspector: HH

Facility Address: 125 Hickory St, Norwich

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
Master Bed	Ceiling	Plaster	12.0	✓		
	Wall	Plaster	6.8	✓		
	Wall	Sheetrock	9.9	✓		
	Window	Wood	10.2	✓		
Unfinished Room	Stud	Wood	7.8	✓		
	Roof Sheathing	Wood	9.7	✓		
	Roofing Joist	Wood	10.8	✓		
	Wall Sheathing	Wood	11.7	✓		
Exterior Gable	Clapboard	Wood	7.0	✓		
	TT-11	Wood	6.4	✓		

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
10:20	Master Bed	48.2	67.5	47.8
11:00	Unfinished Room	44.3	71.2	48.0

APPENDIX 7

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES
APPLICATION NO.1971
125 HICKORY STREET
NORWICH, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CEMENT SHINGLE REMOVAL CONTINGENCY	1	$ 1,500.00 LF	$ 1,500.00
SUBTOTAL			$ 1,500.00
ASBESTOS ABATEMENT CONTINGENCY			$ 150.00
ASBESTOS TOTAL			**$ 1,650.00**

LEAD BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	$ 5,500.00 EACH	$ 5,500.00
SUBTOTAL			$ 5,500.00
LEAD RENOVATION CONTINGENCY			$ 1,100.00
LEAD RENOVATION TOTAL			**$ 6,600.00**

RADON REMEDIATION COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
SUB-SLAB REMEDIATION SYSTEM	1	$ 2,200.00 EACH	$ 2,200.00
SUBTOTAL			$ 2,200.00
RADON REMEDITION CONTINGENCY			$ 220.00
RADON REMEDIATION TOTAL			**$ 2,420.00**

MICROBIAL CONTAMINATION REMEDIATION COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
MICROBIAL REMEDIATION CONTINGENCY	1	$ 950.00 EACH	$ 950.00
SUBTOTAL			$ 950.00
MICROBIAL REMEDITION CONTINGENCY			$ 95.00
MICROBIAL REMEDIATION TOTAL			**$ 1,045.00**

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL **$ 11,715.00**

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
HAZARDOUS MATERIALS CONSULTING CONTIN.	1	$1,800.00 EACH	$ 1,800.00
SUBTOTAL			$ 1,800.00
CONSULTING CONTINGENCY			$ 180.00
CONSULTING TOTAL			**$ 1,980.00**

GRAND TOTAL **$ 13,695.00**

APPENDIX 8

EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY CERTIFICATES

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

LEAD CONSULTANT CONTRACTOR

EAGLE ENVIRONMENTAL INC.

LICENSE NO.
001-723
CURRENT THROUGH
04/30/15
VALIDATION NO.
08-794089

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Hannah Hintz

has successfully completed the

Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

Cardno ATC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory J. Morsch
Principal Instructor

May 15, 2014
Date of Course

May 15, 2015
Expiration Date

Gregory J. Morsch
Regional Manager

SIAR-4897
Certificate Number

May 15, 2014
Examination Date

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

HANNAH E HINTZ

LICENSE NO.
000816
CURRENT THROUGH
06/30/14
VALIDATION NO.
03 - 623636

SIGNATURE

COMMISSIONER

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 Grade: 88%
Examination Date: 1/2/2014 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

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR RISK ASSESSOR

KRISTEN P. LILJEHULT

CERTIFICATION NO.
002206
CURRENT THROUGH
12/31/14
VALIDATION NO.
03-715183

SIGNATURE COMMISSIONER

The National Radon Safety Board

National Radon Safety Board

NRSB

Certified Radon Professionals

Certifies that

Radon Testing Corp. of America (RTCA)

Located at: 2 Hayes Street

Elmsford NY 10523

has successfully met the established and published requirements for Accreditation by The National Radon Safety Board as an

ACCREDITED RADON LABORATORY

NRSB ARL0001

Certification Number

11/30/2015

Expiration Date

Michelle Kunderick

Executive Secretary

This certificate is the property of The National Radon Safety Board and is not official without the raised seal.

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

Environmental Health & Housing

Examination For:
Lead in Paint
Lead Paint in Soil
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

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