EAGLE Environmental, Inc.

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

July 27, 2015

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
90 Pratt Road
Clinton, Connecticut 06413
Application #1819
Eagle Project No. 15-015.10T3

Dear Mr. Holmes:

Please find the Environmental Assessment Report conducted at 90 Pratt 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 comprehensive lead-based paint inspection and risk assessment, 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\2015 Files\2015 Reports\CSA - SSS\Super Storm Sandy\90 Pratt Rd, Clinton\90 Pratt Rd - Enviro Assessment Report.doc

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1. INTRODUCTION

On March 26, 2015, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 90 Pratt Road in Clinton, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a comprehensive lead-based paint inspection and risk assessment and a visual inspection for microbial contamination. There were no children under the age of six (6) years old residing in the dwelling at the time of inspection. There are no known lead-based paint abatement orders or notices of violation on the site building. Capital Studio Architects has submitted a letter of request to the Connecticut Commission on Culture and Tourism to determine if the building is eligible for listing on the National Register of Historic Places and the results are pending.

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 were determined by reviewing the planned renovation work provided in CSA's Project Scope dated February 25, 2015. For the purpose of this project the following areas were inspected:

- Crawl space

In addition to testing the areas of the building that will be impacted by the renovation work, a comprehensive lead-based paint inspection and risk assessment were performed for the interiors and exteriors of 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.

A complete list of components that were tested may be found in the XRF Lead Inspection Detailed Report in Appendix 3.

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 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 $25,00 0 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. Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.

    c. Perform interim controls on all lead hazards identified during the lead hazard screen.

    d. Perform clearance testing following interim control work and renovations.

    e. 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. **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.**

d. **Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.**

e. **Perform clearance testing following abatement work.**

f. **Provide notice of lead-hazard reduction within 15 days of completion of work.**

The lead-based paint hazard screen was performed by Erik Foley; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002259).

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-based paint hazard screen was performed in accordance with State requirements, where applicable. No children under the age of six (6) years old resided in the site building at the time of the inspection.

2.3 Radon Testing

Radon testing for this program is performed on a case-by-case basis. Building's which are constructed on piers or will be elevated 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 90 Pratt Road in 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 90 Pratt Road in Clinton, Connecticut.

3.2 Lead-based Paint

The lead-based paint hazard screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1509 throughout the building.

Due to the level of proposed Federal Funding for this project (exceeding $25,000 per unit), the lead-based paint hazard screen 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 ≥1.0 mg/cm^2 of lead by XRF.

3.3 Radon Testing

The building is proposed to be elevated and the lowest level of the building will not be in contact with the ground; therefore, 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 seven (7) bulk samples of suspect ACM were collected all samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

None of the samples collected were identified as ACM. If any additional suspect material is will be impacted during the scheduled renovation work, additional sampling may be necessary.

The summaries of non-asbestos materials are presented in Table II. The asbestos analysis laboratory reports are provided in Appendix 2.

4.2 Lead-based Paint

A copy of the lead-based paint inspection report must be provided to residents within fifteen (15) days of the evaluation. A total of one hundred twenty-six (126) XRF readings were collected during the lead-based paint inspection of the building. From the one hundred twenty-six (126) readings, two (2) components were found to contain toxic levels of lead-based paint.

The general inventory of surfaces containing lead-based paint include the following

- The ceramic tiles within Bathroom 3 (007) (2 positive readings)

The lead-based paint identified at the property will not impact the proposed scope of work to be performed. The tiles are lead safe as long as they remain in an intact condition.

NOTE: The lead testing instrument errantly recorded all test measurements in a "poor" condition. The ceramic tiles are in an intact condition and require no further action.

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

No lead-based paint hazards were identified on the tested components within the interiors and exteriors of the building. No further action is required.

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. Eagle Environmental, Inc. recommends that the residents continue to follow their regular cleaning regimen.

A copy of the dust sample laboratory reports may be found in Appendix 4.

4.2.2 Soil Hazards

No soil samples were collected at the time of inspection as there were no bare areas of soil identified. The owner should maintain the ground cover in its current condition.

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 Low - Moderate (16%). 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)

Radon testing was not performed at this Site since the building is anticipated to be elevated and the lowest level of the building will not be in contact with the ground.

4.4 Mold

The homeowner informed the inspectors that the crawl space of the dwelling flooded during the Storm Event. The homeowner already had the crawl space renovations repaired.

There were no visible signs of water intrusion, damage or staining in any of the rooms within the building at the time of this inspection.

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 cost estimates are provided in Appendix 7.

TABLE I

ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
90 PRATT 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		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
90 PRATT ROAD
CLINTON, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Crawlspace	Concrete column	3-26-AC-01	MISC				NO
		3-26-AC-02					
	Silver paper on foam	3-26-AC-03	MISC				
		3-26-AC-04					
	Yellow spray foam	3-26-AC-05	SURF				
		3-26-AC-06					
		3-26-AC-07					

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**
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SURF = SURFACING MATERIAL	**Trem = Tremolite**	
MISC = MISCELLANEOUS MATERIAL	**Croc = Crocidolite**	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

APPENDIX 1

FLOOR PLANS

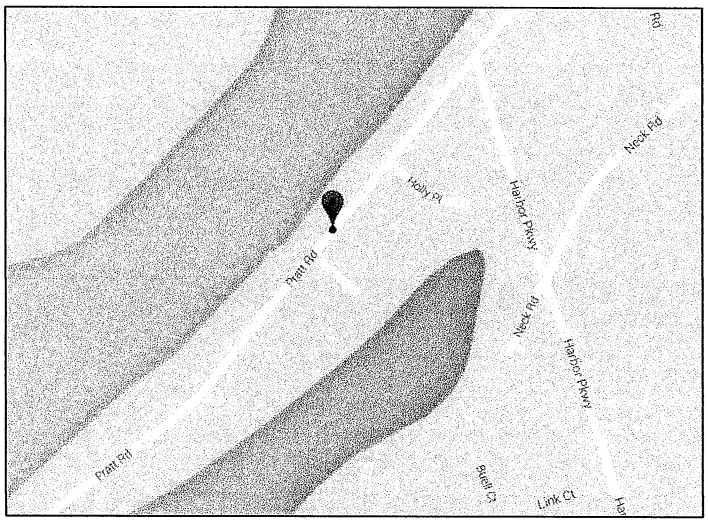
CAPITAL STUDIO ARCHITECTS

90 PRATT ROAD
CLINTON, CONNECTICUT

EAGLE PROJECT NUMBER: 15-015.10T3

INDEX OF DRAWINGS

LOCATION MAP



MARCH 27, 2015

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

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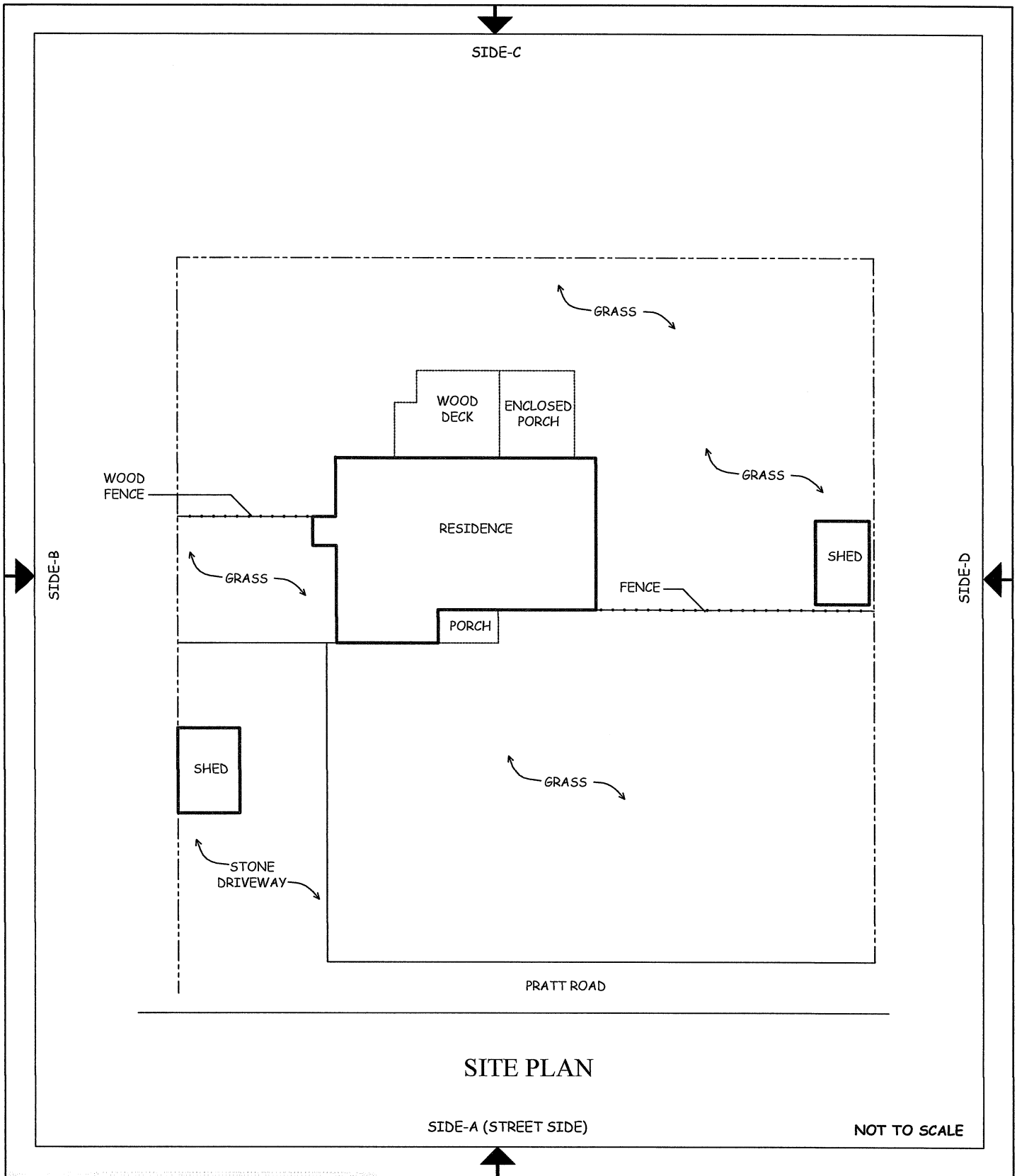

SITE PLAN

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

DATE: 03/27/2015
PROJECT NO.: 15-015.10T3
DRAWN BY: VB
REVIEWED BY: PF

ENVIRONMENTAL ASSESSMENT
90 PRATT ROAD
CLINTON, CONNECTICUT

SHEET NO.
SP-1
SHEET 1 OF 4

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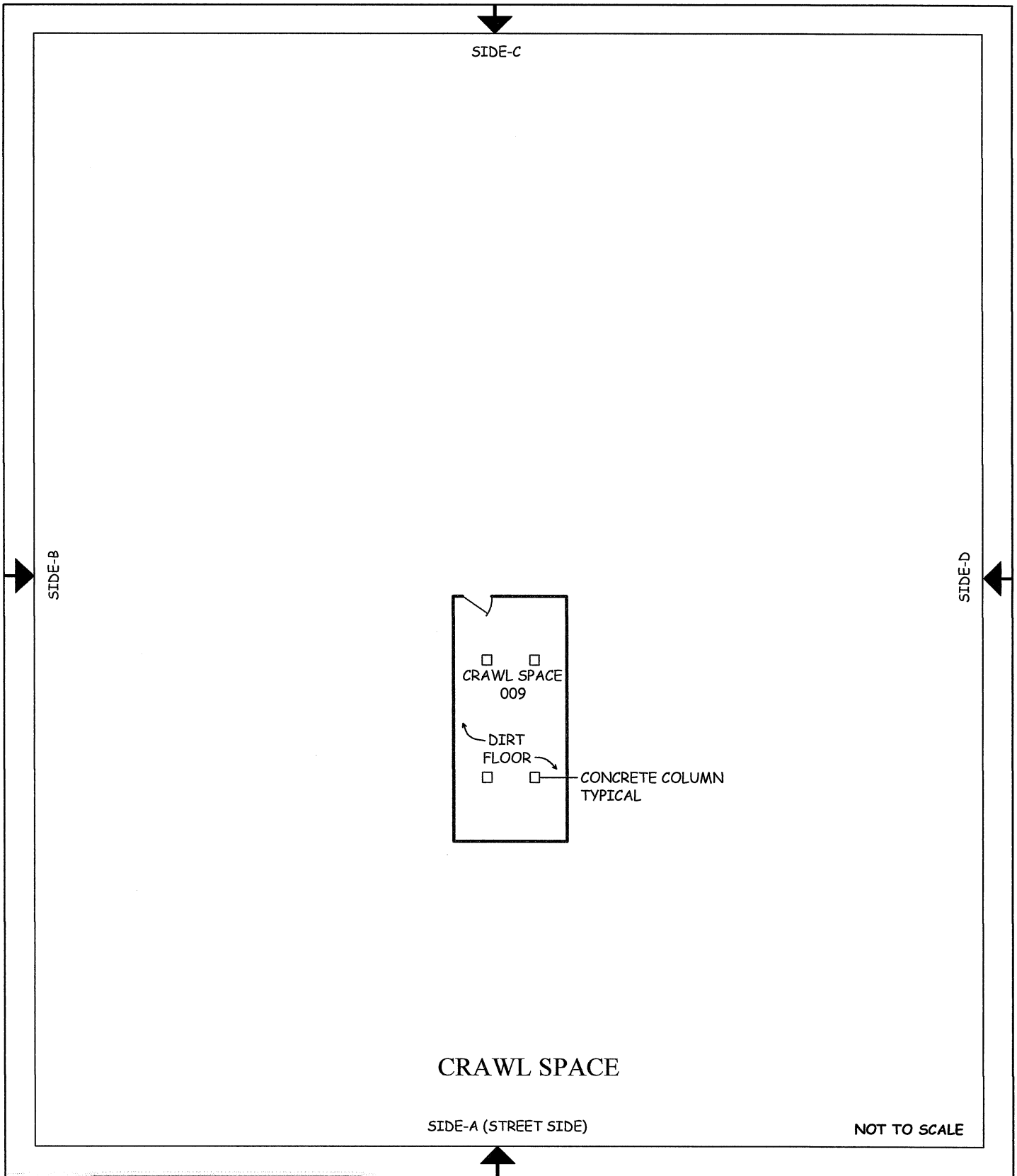

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

DATE: 03/27/2015
PROJECT NO.: 15-015.10T3
DRAWN BY: VB
REVIEWED BY: PF

ENVIRONMENTAL ASSESSMENT
90 PRATT ROAD
CLINTON, CONNECTICUT

SHEET NO.
FP-1
SHEET 2 OF 4

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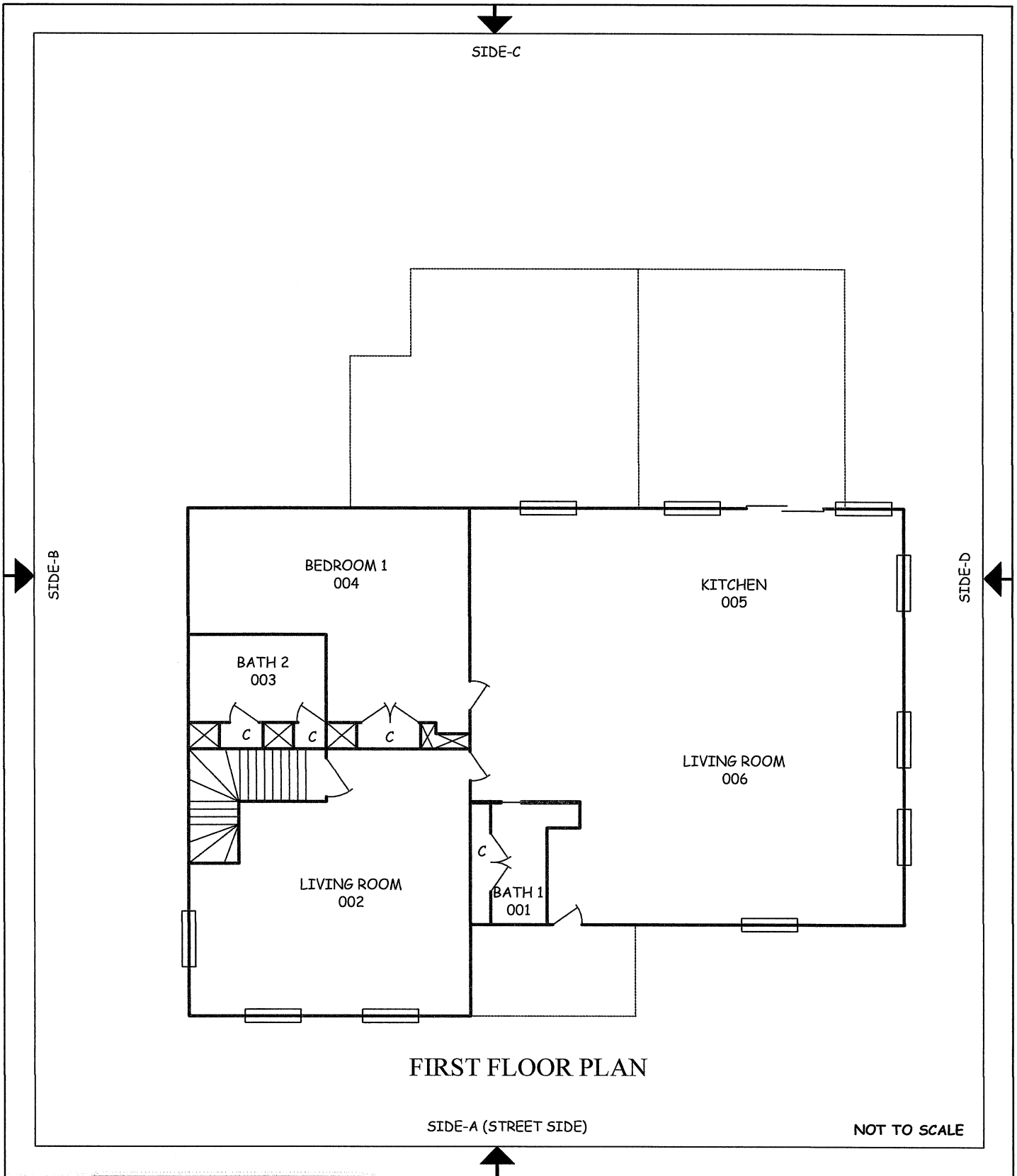

FIRST FLOOR PLAN

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

DATE: 03/27/2015
PROJECT NO.: 15-015.10T3
DRAWN BY: VB
REVIEWED BY: PF

ENVIRONMENTAL ASSESSMENT
90 PRATT ROAD
CLINTON, CONNECTICUT

SHEET NO.
FP-2
SHEET 3 OF 4

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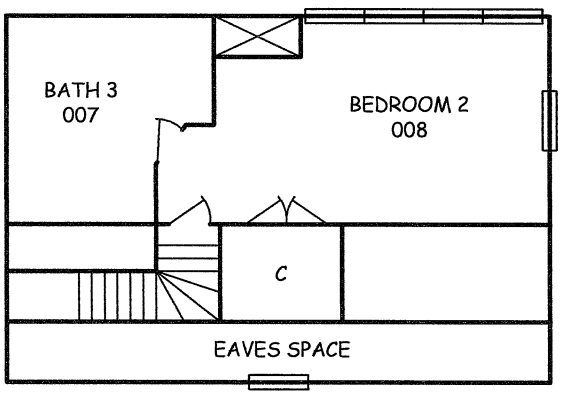
SIDE-C

SIDE-B

SIDE-D



SECOND FLOOR PLAN

SIDE-A (STREET SIDE)

NOT TO SCALE

EAGLE Environmental, Inc.

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

SHEET NO.

FP-3

SHEET 4 OF 4

DATE: 03/27/2015
PROJECT NO.: 15-015.10T3
DRAWN BY: VB
REVIEWED BY: PF

ENVIRONMENTAL ASSESSMENT
90 PRATT ROAD
CLINTON, CONNECTICUT

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APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

OrderID: 031509058

EMSL
www.emsl.com

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

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

031509058

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

Phone: 860-589-8257 ext. 108 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; dwynne@eagleenviro.com; rsioch@eagleenviro.com

Project Name CSA-SSS **Project #:** 15-015.10T3

Project Location: 90 Pratt 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

1r 3/28

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:

EMSL MANHATTAN LAB RECEIVED 15 MAR 27 AM 10:04

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

Client Sample # (S)	3-26-AC-01	3-26-AC-07	TOTAL SAMPLE #	7
Relinquished:	Andrew Carnevale	Date: 3-26-15	Time:	PM
Received:	Renee Sioch	Date: 3-26-15	Time:	PM
Relinquished:	Renee Sioch	Date: 3-26-15	Time:	PM
Received:		Date: 3/27/15	Time:	10:04 am

3/28/15 1:33a

OrderID: 031509058

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

031509058

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
Set { 3-26-AC-01	Concrete column	Crawlspace		
3-26-AC-02	Concrete column	Crawlspace		
Set { 3-26-AC-03	Silver paper on foam	Crawlspace		
3-26-AC-04	Silver paper on foam	Crawlspace		
Set { 3-26-AC-05	Yellow spray foam	Crawlspace		
3-26-AC-06	Yellow spray foam	Crawlspace		
3-26-AC-07	Yellow spray foam	Crawlspace		

EMSL MANHATTAN LAB RECEIVED 15 MAR 27 AM 10 04

[signature] 3/26/15 133a

Rec'd by K Marsh 3/27/15 10:04am

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:	031509058
CustomerID:	EEVM50
CustomerPO:	15-015.10T3
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:	03/27/15 10:04 AM
Analysis Date:	3/28/2015
Collected:	3/26/2015

Project: **15-015.10T3/ CSA-SSS / 90 PRATT ROAD, CLINTON/ 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**
3-26-AC-01 *031509058-0001*	CONCRETE COLUMN/ CRAWLSPACE	Gray Non-Fibrous Homogeneous			54% Quartz 18% Ca Carbonate 28% Non-fibrous (other)	**None Detected**
3-26-AC-02 *031509058-0002*	CONCRETE COLUMN/ CRAWLSPACE	Gray/White Non-Fibrous Homogeneous			40% Quartz 30% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
3-26-AC-03 *031509058-0003*	SILVER PAPER ON FOAM/ CRAWLSPACE	Brown/Silver Fibrous Homogeneous	56%	Cellulose	44% Non-fibrous (other)	**None Detected**
3-26-AC-04 *031509058-0004*	SILVER PAPER ON FOAM/ CRAWLSPACE	Brown/Silver Fibrous Homogeneous	65%	Cellulose	35% Non-fibrous (other)	**None Detected**
3-26-AC-05 *031509058-0005*	YELLOW SPRAY FOAM/ CRAWLSPACE	White Non-Fibrous Homogeneous	11%	Cellulose	89% Non-fibrous (other)	**None Detected**
3-26-AC-06 *031509058-0006*	YELLOW SPRAY FOAM/ CRAWLSPACE	White Non-Fibrous Homogeneous	8%	Cellulose	92% Non-fibrous (other)	**None Detected**
3-26-AC-07 *031509058-0007*	YELLOW SPRAY FOAM/ CRAWLSPACE	White/Yellow Non-Fibrous Homogeneous	5%	Cellulose	95% Non-fibrous (other)	**None Detected**

Initial report from 03/28/2015 02:49:20

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:	031509058
CustomerID:	EEVM50
CustomerPO:	15-015.10T3
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:	03/27/15 10:04 AM
Analysis Date:	3/28/2015
Collected:	3/26/2015

Project: **15-015.10T3/ CSA-SSS / 90 PRATT ROAD, CLINTON/ CT**

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date::	3/27/2015	Sample Receipt Time:	10:04 AM
Analysis Completed Date:	3/28/2015	Analysis Completed Time:	2:36 AM

Analyst(s):

Emmanuel Alberto PLM (4)

Jessica Cox PLM (3)

Samples reviewed and approved by:

James Hall, Laboratory Manager
or other approved signatory

Initial report from 03/28/2015 02:49:20

APPENDIX 3

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01509 - 03/26/15 10:33

INSPECTION FOR: Jason Pitts
Capitol Studio Architects
1379 Main Street
East Hartford, CT 06108

PERFORMED AT: 90 Pratt Road
Clinton, CT

INSPECTION DATE: 03/26/15

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

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002259

Comprehensive lead based paint inspection performed at 90 Pratt Road in Clinton, CT.

SIGNED: _____ Date: 3/26/15

Erik Foley
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite 3
Terryville, CT 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Inspection Date:	03/26/15	90 Pratt Road
Report Date:	3/26/2015	Clinton, CT
Abatement Level:	1.0	
Report No.	S#01509 - 03/26/15 10:33	
Total Readings:	126 Actionable: 2	
Job Started:	03/26/15 10:33	
Job Finished:	03/26/15 12:12	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 007 Bathroom 3									
097	B	Wall	Ctr		P	ceramic	N/A	4.4	QM
098	C	Wall	Ctr		P	ceramic	N/A	3.0	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Inspection Date:	03/26/15	90 Pratt Road
Report Date:	3/26/2015	Clinton, CT
Abatement Level:	1.0	
Report No.	S#01509 - 03/26/15 10:33	
Total Readings:	126	
Job Started:	03/26/15 10:33	
Job Finished:	03/26/15 12:12	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
108	A	Porch	Ctr	Win. Casing	P	Wood	White	0.2	QM
109	A	Porch	Ctr	Wall	P	Shingle	N/A	-0.1	QM
110	A	Porch	Ctr	Floor	P	Azak	N/A	-0.1	QM
111	A	Porch	Ctr	Railing	P	Wood	White	-0.1	QM
112	A	Porch	Ctr	Ceiling	P	Paneling	White	-0.1	QM
114	A	Wall	L Rgt		P	Wood	White	0.2	QM
113	A	Window	Rgt	Casing	P	Wood	White	-0.1	QM
Exterior Room 002 Facade B									
115	B	Fence	Ctr		P	Wood	White	0.0	QM
Exterior Room 003 Facade C									
116	C	Basement Doo	Ctr		P	Wood	White	-0.1	QM
117	C	Basement Doo	Ctr		P	Wood	White	0.2	QM
119	C	Porch	Ctr		P	Wood	Gray	-0.3	QM
120	C	Porch	Ctr		P	Wood	Gray	-0.2	QM
121	C	Wall	Ctr		P	Shingle	N/A	-0.1	QM
122	C	Soffit	Ctr		P	Wood	White	0.0	QM
118	C	Window	Rgt	Casing	P	Wood	White	-0.1	QM
123	D	Fence	Ctr		P	Wood	White	0.2	QM
Interior Room 001 Bathroom 1									
008	-	Ceiling	Ctr		P	Dry wall	No Paint	-0.1	QM
004	A	Wall	Ctr		P	Dry wall	No Paint	-0.1	QM
010	A	Window	Lft	Casing	P	Wood	White	0.0	QM
009	A	Window	Ctr	Header	P	Wood	White	0.1	QM
012	A	Window	Ctr	Apron	P	Wood	White	0.1	QM
011	A	Window	Ctr	Sill	P	Wood	White	-0.1	QM
005	B	Wall	Ctr		P	Dry wall	No Paint	0.0	QM
014	B	Closet	Ctr	Shelf Sup.	P	Wood	White	0.1	QM
013	B	Closet	Ctr	Shelf	P	Wood	White	-0.1	QM
006	C	Wall	Ctr		P	Dry wall	No Paint	0.0	QM
017	C	Door	Ctr		P	Wood	White	-0.1	QM
015	C	Door	Ctr	Header	P	Wood	White	0.0	QM
016	C	Door	Rgt	Casing	P	Wood	White	0.2	QM
007	D	Wall	Ctr		P	Dry wall	No Paint	0.0	QM
Interior Room 002 Living Rm 1									
022	-	Ceiling	Ctr		P	Dry wall	White	0.0	QM
018	A	Wall	Ctr		P	Dry wall	Tan	0.0	QM
019	B	Wall	Ctr		P	Dry wall	Tan	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
023	B	Window	Ctr	Header	P	Wood	varnish	0.2	QM
024	B	Window	Rgt	Casing	P	Wood	varnish	0.1	QM
025	B	Window	Rgt	Sill	P	Wood	varnish	-0.2	QM
028	B	Stairs	Ctr	Stringers	P	Wood	White	-0.2	QM
027	B	Stairs	Ctr	Treads	P	Wood	varnish	-0.1	QM
026	B	Stairs	Ctr	Risers	P	Wood	White	0.0	QM
029	B	Stairs	Ctr	Newel post	P	Wood	White	0.0	QM
030	B	Closet	Ctr	Door	P	Wood	White	-0.1	QM
031	B	Closet	Ctr	Door Casing	P	Wood	varnish	0.2	QM
032	B	Closet	Ctr	Floor	P	Wood	varnish	-0.1	QM
033	B	Closet	Ctr	Ceiling	P	Dry wall	Tan	-0.1	QM
020	C	Wall	Ctr		P	Dry wall	Tan	-0.1	QM
021	D	Wall	Ctr		P	Dry wall	Tan	-0.1	QM
Interior Room 003 Bathroom 2									
039	-	Ceiling	Ctr		P	Dry wall	White	-0.1	QM
034	A	Wall	Ctr		P	Dry wall	White	0.0	QM
041	A	Closet	Ctr	Shelf Sup.	P	Wood	White	0.1	QM
040	A	Closet	Ctr	Shelf	P	Wood	White	0.2	QM
035	B	Wall	Ctr		P	Dry wall	White	0.0	QM
043	B	Window	Lft	Casing	P	Wood	White	0.0	QM
044	B	Window	Lft	Sill	P	Wood	White	0.0	QM
042	B	Window	Ctr	Header	P	Wood	White	-0.1	QM
036	C	Wall	Ctr		P	Dry wall	White	-0.1	QM
037	C	Wall	Ctr		P	ceramic	N/A	-0.2	QM
038	D	Wall	Ctr		P	Dry wall	White	-0.1	QM
046	D	Door	Lft	Casing	P	Wood	White	0.1	QM
047	D	Door	Ctr		P	Wood	White	-0.1	QM
048	D	Door	Ctr	Jamb	P	Wood	White	0.1	QM
045	D	Door	Ctr	Header	P	Wood	White	-0.1	QM
Interior Room 004 Bedroom 1									
054	-	Floor	Ctr		P	Wood	varnish	0.0	QM
053	-	Ceiling	Ctr		P	Dry wall	Tan	-0.1	QM
049	A	Wall	Ctr		P	Dry wall	Tan	-0.2	QM
057	A	Closet	Ctr	Door	P	Wood	White	-0.2	QM
061	A	Closet	Ctr	Ceiling	P	Dry wall	Tan	0.2	QM
058	A	Closet	Rgt	Door Casing	P	Wood	White	-0.1	QM
062	A	Closet	Rgt	Wall	P	Dry wall	White	-0.1	QM
059	A	Closet	Rgt	Shelf Sup.	P	Wood	White	-0.1	QM
060	A	Closet	Rgt	Shelf	P	Wood	White	0.0	QM
050	B	Wall	Ctr		P	Dry wall	Tan	0.0	QM
051	C	Wall	Ctr		P	Dry wall	Tan	0.0	QM
055	C	Window	Rgt	Casing	P	Wood	White	0.2	QM
056	C	Window	Rgt	Sill	P	Wood	White	0.1	QM
052	D	Wall	Ctr		P	Dry wall	Tan	-0.3	QM
Interior Room 005 Kitchen									
069	-	Floor	Ctr		P	Wood	varnish	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
068	-	Ceiling	Ctr		P	Dry wall	White	0.0	QM
077	A	Crown Mldg	Ctr		P	Wood	White	0.0	QM
063	A	Wall	Ctr		P	Dry wall	Tan	0.0	QM
064	B	Wall	Ctr		P	ceramic	N/A	-0.1	QM
070	B	Wall	Ctr	Cabinet	P	Wood	varnish	-0.1	QM
065	C	Wall	Ctr		P	ceramic	N/A	-0.3	QM
066	C	Wall	Ctr		P	Dry wall	Tan	0.0	QM
071	C	Door	Ctr	Header	P	Wood	White	0.0	QM
067	D	Wall	Ctr		P	Paneling	Tan	0.2	QM
076	D	Wall	Ctr	Baseboard	P	Wood	White	0.0	QM
073	D	Window	Lft	Casing	P	Wood	White	-0.1	QM
072	D	Window	Ctr	Header	P	Wood	White	-0.1	QM
075	D	Window	Ctr	Apron	P	Wood	White	0.0	QM
074	D	Window	Ctr	Sill	P	Wood	White	-0.1	QM
Interior Room 006 Living Rm 2									
083	-	Floor	Ctr		P	Wood	varnish	0.0	QM
082	-	Ceiling	Ctr		P	Dry wall	White	-0.2	QM
078	A	Wall	Ctr		P	Dry wall	Tan	-0.1	QM
090	A	Wall	Ctr	Cabinet	P	Wood	Tan	-0.1	QM
091	A	Wall	Ctr	Baseboard	P	Wood	White	0.0	QM
088	A	Door	Ctr	Casing	P	Wood	White	-0.1	QM
089	A	Door	Ctr		P	metal	White	0.0	QM
087	A	Door	Ctr	Header	P	Wood	White	0.0	QM
079	B	Wall	Ctr		P	Dry wall	Tan	-0.1	QM
080	C	Wall	Ctr		P	Dry wall	Tan	-0.1	QM
081	D	Wall	Ctr		P	Dry wall	Tan	0.0	QM
084	D	Window	Lft	Casing	P	Wood	White	0.1	QM
086	D	Window	Lft	Apron	P	Wood	White	-0.1	QM
085	D	Window	Lft	Sill	P	Wood	White	0.1	QM
Interior Room 007 Bathroom 3									
096	-	Ceiling	Ctr		P	Dry wall	White	0.0	QM
092	A	Wall	Ctr		P	Dry wall	White	-0.1	QM
093	B	Wall	Ctr		P	Dry wall	White	0.0	QM
097	B	Wall	Ctr		P	ceramic	N/A	4.4	QM
099	B	Window	Ctr	Casing	P	Wood	White	0.1	QM
100	B	Window	Ctr	Sill	P	Wood	White	0.0	QM
094	C	Wall	Ctr		P	Dry wall	White	-0.1	QM
098	C	Wall	Ctr		P	ceramic	N/A	3.0	QM
095	D	Wall	Ctr		P	Dry wall	White	-0.1	QM
Interior Room 008 Bedroom 2									
103	-	Ceiling	Ctr		P	Wood	N/A	-0.1	QM
101	A	Wall	Ctr		P	Wood	N/A	0.0	QM
104	A	Closet	Ctr	Door	P	Wood	White	-0.1	QM
105	A	Closet	Ctr	Door Casing	P	Wood	White	0.0	QM
107	A	Closet	Ctr	Shelf Sup.	P	Wood	N/A	0.2	QM
106	A	Closet	Ctr	Shelf	P	Wood	N/A	0.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
102	C	Wall	Ctr		P	Wood	N/A	0.0	QM
Calibration Readings									
001								1.1	TC
002								1.1	TC
003								1.1	TC
124								-0.1	QM
125								1.1	TC
126								1.1	TC
			---- End of Readings ----						

APPENDIX 4

LEAD DUST SAMPLE LABORATORY REPORTS

OrderID: 031509042

031509042

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. 108 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; dwynne@eagleenviro.com; rsioch@eagleenviro.com

Project Name CSA-SSS **Project #:** 15-015.10T3

Project Location: 90 Pratt 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 3/27/15 ks
- ☒ 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:

EMSL MANHATTAN LAB
15 MAR 27 AM 9:50
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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) 3-26EF-01 3-26-EF-10 TOTAL SAMPLE # 10

Relinquished:		Date: 3-26-15	Time: PM
		Date:	Time:
		Date: 3/26/15	Time: PM
		Date: 3/27/15	Time: 9:49am

OrderID: 031509042 031504042

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

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-26 EF-01	Floor at entry	Living room		144
02	Well	↓		26X2.5
03	Floor at entry	Kitchen		144
04	Sill	↓		28X3
05	Floor	bed 1		144
06	Well	↓		26X2.5
07	Floor	bed 2		144
08	Sill	↓		28X3
09	Blank	—		
10	Blank	—		

EMSL MANHATTAN LAB
RECEIVED
15 MAR 27 AM 9:49

Recd by KMack 3/27/15
9:49 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:	031509042
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:	03/27/15 9:49 AM
Collected:	3/26/2015

Project: **15-015.10T3/ CSA-SSS/90 PRATT ROAD, CLINTON, CT**

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

Client Sample Description	*Lab ID*	*Collected*	***Analyzed***	*Area Sampled*	*Lead* ***Concentration***
3-26-EF-01	*031509042-0001*	3/26/2015	3/27/2015	144 in²	<10 µg/ft²
	Site: FLOOR AT ENTRY LIVINGROOM				
3-26-EF-02	*031509042-0002*	3/26/2015	3/27/2015	65 in²	<22 µg/ft²
	Site: WELL LIVINGROOM				
3-26-EF-03	*031509042-0003*	3/26/2015	3/27/2015	144 in²	<10 µg/ft²
	Site: FLOOR AT ENTRY KITCHEN				
3-26-EF-04	*031509042-0004*	3/26/2015	3/27/2015	84 in²	<17 µg/ft²
	Site: SILL KITCHEN				
3-26-EF-05	*031509042-0005*	3/26/2015	3/27/2015	144 in²	<10 µg/ft²
	Site: FLOOR BED 1				
3-26-EF-06	*031509042-0006*	3/26/2015	3/27/2015	65 in²	<22 µg/ft²
	Site: WELL BED 1				
3-26-EF-07	*031509042-0007*	3/26/2015	3/27/2015	144 in²	<10 µg/ft²
	Site: FLOOR BED 2				
3-26-EF-08	*031509042-0008*	3/26/2015	3/27/2015	84 in²	<17 µg/ft²
	Site: SILL BED 2				
3-26-EF-09	*031509042-0009*	3/26/2015	3/27/2015	n/a	<10 µg/wipe
	Site: BLANK				
3-26-EF-10	*031509042-0010*	3/26/2015	3/27/2015	n/a	<10 µg/wipe
	Site: 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 11506

Initial report from 03/27/2015 13:56:47

APPENDIX 5

RADON TESTING REPORTS

Radon testing was not performed as this building is scheduled to be elevated and the lowest level of the building will not be in contact with the ground.

APPENDIX 6

MOLD INSPECTION FORMS

EAGLE Environmental, Inc.

MOLD OBSERVATION FORM

Eagle Project No: 15-015,bt3 Date: 3-26-15 Inspector: AC

Facility Address: 90 Pratt road, Clifton

Location	Observation	Sample Number
Crawlspace	No spores is observed on wood beams. Spray foam is over the wood.	

EAGLE Environmental, Inc.

MOLD MOISTURE READING FORM

Eagle Project No: 15-015.103 Date: 3-26-15 Inspector: AC

Facility Address: 90 Plattroad, Clinton

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
crawl space	beam	wood	11.2	✓		
	beam	wood	12.4	✓		

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
crawl space	crawl space	55.6	43 F°	61.0°

EAGLE Environmental, Inc.

MOLD CONDENSATOR FORM

Eagle Project No: 15-015.10f3 Date: 3-26-15 Inspector: AC

Facility Address: 90 pratt road, clinton

CONDENSATOR MODE							
ROOM	COM-PONENT	SUB-STRATE	% REL. HUMIDITY	AIR TEMP.	DEW POINT TEMP.	SURFACE TEMP.	TEMP DIFF.
PM	beam	wood	35.6	43 f°	6.1 C°	61.35 f°	8 f°
	beam	wood	35.6	43 f°	6.1 C°	34.6 f°	9 f°

APPENDIX 7

ABATEMENT AND CONSULTING COST ESTIMATE

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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.
001723
CURRENT THROUGH
04/30/15
VALIDATION NO.
03-794089

SIGNATURE

COMMISSIONER

Certificate of Training

Awarded to

ANDREW CARNEVALE

For successful completion of a 4 Hour, 1/2 Day

Asbestos Building Inspector

Annual Refresher Training

January 5, 2015

This training was approved and given in accordance with the Regulations for Connecticut State Agencies RCSA 20 - 440 - 1.9 and RCSA 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: ABIRF23635 **Exam Grade:** 80 **Expiration Date:** 01/05/2016

Exam Date: 01/05/2015

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 CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

ANDREW C CARNEVALE

CERTIFICATE NO:
000850

CURRENT THROUGH:
10/31/15

VALIDATION NO:
03-134046

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Erik Foley

87 S. Cliff Street, Ansonia, CT 06401
000-00-2412

has successfully completed the

LEAD INSPECTOR RISK ASSESSOR INITIAL

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

Principal Instructor:

July 24-25, 2014
Date of Course

July 25, 2014
Exam Date

CTLIRA-119
Certificate Number

July 25, 2015
Expiration Date

Training received complies with the requirements of the Connecticut Department of Public Health pursuant to Section 20-477 of the Connecticut General Statutes.

Interim Training Director

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

ERIK J FOLEY

CERTIFICATE NO.
002259

CURRENT THROUGH
12/31/15

VALIDATION NO.
03-134181

SIGNATURE

COMMISSIONER

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, 2016 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 3rd DAY OF September 2014

Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION