EAGLE Environmental, Inc.

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

July 26, 2018

Mr. Ronald Turner
Director of Operations
Town of East Haddam
26 Plains Road
P.O. Box 401
Moodus, Connecticut 06469

RE: Pre-Renovation Hazardous Building Materials Inspection Report
Former Town Office
7 Main Street
East Haddam, Connecticut
Eagle Project No. 18-144.10T4

Dear Mr. Turner:

Please find the report for the hazardous building materials inspection conducted at the Former Town Office building located at 7 Main Street in East Haddam, Connecticut. The scope of services included an asbestos-containing materials inspection, lead-based paint screen, a visual inspection for polychlorinated biphenyls (PCB) and an inspection for universal waste materials.

The inspection was performed to support the renovation of the building.

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:
Chris Liberti
Senior Project Manager

Report Reviewed By:
Ashis Roychowdhury
Executive Vice President

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1. INTRODUCTION

On June 21 and 22, 2018, Eagle Environmental, Inc. (Eagle) conducted a hazardous building materials inspection of the Former Town Office building located at 7 Main Street in East Haddam, Connecticut. The scope of the hazardous building materials inspection included an asbestos-containing materials inspection, a lead-based paint screen, a visual inspection for suspect PCB containing materials and an inspection for universal waste materials. The inspection was performed to support the renovation of the building.

1.1 Building Description

The subject building located at 7 Main Street in East Haddam, Connecticut is a two-story residential type structure of wood frame construction that has been converted to commercial use. The structure was built in 1901 and appears to have undergone minor renovations over time. The building is constructed over a full basement. The mechanical equipment consists of an oil fired radiant heat system with cast iron radiators. The mechanical distribution system is insulated in the basement. The basement piping is exposed and all risers are contained within the walls on the floors above. The boiler is located in the basement of the structure. The interior walls and ceilings are of a two-coat plaster on lath construction. The window frames and sashes are of wood construction. The door frames are wood with wood doors. The floors are hardwood. The exterior facades are clad with wood clapboard siding. The roof is pitched and consists of two (2) layers of asphalt shingles over wood shakes.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in an area of renovation prior to renovating the area if the renovation work will impact the ACM.

The asbestos inspection was performed by Raymond R. Folino; a State of Connecticut licensed Asbestos Inspector (license #000137).

2.2 Lead-based Paint

2.2.1 X-Ray Fluorescence Screen

The lead-based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries. The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally, the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead-based paint screen was performed by Alexis St. Hilaire; a State of Connecticut licensed Lead Inspector/Risk Assessor (license #002282).

2.2.2 Lead Waste Characterization

The DEEP regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Eagle reviewed the XRF data for the building but did not collect TCLP samples of building materials for lead waste characterization at this time, as the extent of renovations was unknown.

2.3 Polychlorinated Biphenyls (PCB) in Bulk Source Materials

Eagle performed a visual inspection only of suspect PCB containing materials at the site building. These materials included paints, caulks, glazing compounds, adhesives and other sealants/coatings. PCBs have been identified by the USEPA as a concern in caulk and glazing compounds. The USEPA has identified numerous cases where PCBs have been added to these and other materials between 1930 and 1979 to improve adhesion and flexibility.

The USEPA regulates the removal and disposal of PCB-containing materials if the concentration of PCB's are found to contain equal to or greater than fifty (50) parts-per-million (ppm). The USEPA also regulates soil and adjacent substrate materials contaminated by PCB-containing materials containing greater than or equal to fifty (50) ppm if the soil or substrates contain greater than one (1) ppm PCB.

The DEEP regulates the removal and disposal of source materials, soil, or substrate materials with PCB concentrations in excess of one (1) ppm. Materials with PCB concentrations less than one (1) ppm are not regulated by USEPA or DEEP and their unrestricted use or disposal with regard to PCB is not subject to State or Federal Regulation.

2.4 Universal Waste Materials and Other Environmental Concerns

2.4.1 Polychlorinated Biphenyls (PCB) and Di-ethylhexlpthalate (DEHP) Containing Items

PCB and DEHP lighting ballasts and electrical equipment, including capacitors and switches that contain PCBs, are regulated under the Toxic Substances Control Act of 1976 (TSCA) which bans the manufacturing and distribution of PCBs and regulates their storage and disposal.

PCBs and DEHP can be found in a number of items, including lighting ballast and electrical equipment, including capacitors and switches. DEHP and PCB-containing items such as these must be managed and disposed of in accordance with special requirements. A visual inspection for PCB and DEHP containing items was performed at the site building.

2.4.2 Mercury Containing Items

Fluorescent lamps, thermostats, mercury switches, manometers, natural gas meters and other items can contain enough mercury to be classified as a special

waste, and therefore may not be disposed of as regular construction debris. The mercury and mercury vapors associated with these products must be reclaimed prior to disposal or recycling of the products. A visual inspection for the presence of fluorescent lamps, thermostats and switches potentially containing mercury was performed at the site building.

2.4.3 Used Electronics and Batteries

Used electronics and batteries may contain enough lead, mercury, cadmium or acid electrolytes to be classified as universal waste. In such cases, they may not be disposed of as regular construction debris. A visual inspection for the presence of used electronic devices was performed at the site building.

2.4.4 Chlorofluorocarbons

Freon gas includes a number of gaseous, colorless chlorofluorocarbons (CFCs) that are commonly used as refrigerants. Freon is listed as a controlled substance by governments around the world. In the United States, the USEPA regulates the emission of Freon gas into the atmosphere due to its ozone depleting capabilities. Through Title VI, Stratospheric Ozone Protection, of the Clean Air Act Amendments of 1990, the USEPA regulates Freon gas and requires mandatory recycling and a ban on the intentional venting or releasing of refrigerants during maintenance, service and or repair. A visual inspection for the presence of building materials potentially containing Freon was performed at the site building.

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 including the roofing systems. Semi-destructive testing techniques were utilized during the inspection process. This included cutting through various layers of flooring and roofing materials to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. These suspect materials are generally located in operational equipment, behind rigid walls and ceilings, below rubber roof membranes or otherwise concealed areas of the building, including below grade materials.

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 matrices. 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. None of the samples were further analyzed by the PLM Point Count Method for this project.

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. None of the samples were further analyzed by the NOB TEM Method for this project.

3.2 Lead-based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1509 within the limits of the inspection area(s). The screen includes only accessible areas within the inspection area(s) and accessible building materials.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. It is not the intent to test all painted components, but to identify on a broad scale the impact of lead paint as it relates to the disposal of lead paint contaminated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window and door systems are tested. Other components such as baseboards, cabinets, columns, trim, etc. are tested on a limited basis. 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, the XRF results are separated into two (2) categories; high levels of lead ($\geq$1.0 mg/cm^2) and low levels of lead (<1.0 mg/cm^2). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead ($\geq$1.0 mg/cm^2) and will become a waste product as a result of demolition or renovation activities.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CRF 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 $\geq$0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24).

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead. Building debris containing equal to or greater than 1.0 mg/cm^2 of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

3.3 Polychlorinated Biphenyls (PCB) in Bulk Source Materials

3.3.1 Visual Inspection

Eagle performed a visual inspection only of suspect PCB containing materials at the building. An inventory of suspect PCB-containing materials was developed for the building. These materials were assumed to contain PCB's in

concentrations exceeding 50 parts per million (ppm). Materials assumed to contain PCB's that will be impacted by the renovation or demolition activities must be treated as a bulk product waste and properly disposed of if impacted during construction activities unless samples are collected to ascertain the actual concentrations.

3.4 Universal Waste Materials and Other Environmental Concerns

3.4.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

A visual inspection for the presence of lighting ballasts and electrical equipment potentially containing PCB's or DEHP was performed within the inspection areas. Lighting ballasts and oil-filled capacitor manufactured after 1979 may have "NO PCB's" stamped on its casing. These are filled with oil which does not contain PCB's but may contain DEHP. Lighting ballasts and Capacitors with date stamps prior to 1979 or no date stamps are assumed to contain PCB's. Lighting ballasts and capacitors labeled as "No PCB's" are assumed to contain DEHP if the date stamp is illegible or non-existent. Electronic ballasts are not assumed to contain PCB's or DEHP.

3.4.2 Mercury Containing Items

During the visual inspection process, fluorescent, metal halide and sodium lamps are assumed to contain mercury vapors. Thermostatic controls, switches, manometers, capacitors and other used electronic components are inventoried during the inspection process.

3.4.3 Used Electronics and Batteries

An inventory of used electronics that may fall under the Universal Waste regulations was developed during the inspection. These materials include but are not limited to lead acid batteries in emergency lighting and exit signs and stored electronic equipment that may contain hazardous or regulated substances. Electronic components such as computers, copy machines, etc that are in use at the time of the inspection are generally not included in the inventory.

3.4.4 Chlorofluorocarbons

Eagle inspected the building for compressor tanks associated with water fountains, portable air conditioning units, the indoor environmental cooling system and walk-in coolers or freezers where applicable. The inspectors also inspected rooftop HVAC units where present. These tanks are all assumed to contain Freon. The size and quantity of tanks are estimated and recorded.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection fifty-nine (59) bulk samples of suspect ACM were collected and fifty-seven (57) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

From the fifty-seven (57) samples analyzed, the materials listed below were found to be ACM:

- Grey aircell pipe insulation
- White burner gun gasket

The following materials are assumed to be ACM:

- Boiler rib cement (inaccessible to sample)
- Refractory cement (inaccessible to sample)
- Vermiculite insulation in attic (no definitive test, needs to be assumed as ACM)

Vermiculite Attic Insulation (VAI) may potentially be contaminated with asbestos. Currently, the USEPA recommends that VAI be assumed to contain asbestos. 70% of all Vermiculite sold in the United States came from a mine in Libby, Montana, which also contained asbestos. Testing of the Vermiculite by PLM may result in a false negative and is not recommended. Information related to reimbursement for abatement of VAI from the Libby, Montana mine can be found at www.zonoliteatticinsulation.com.

VAI was identified in the attic with debris assumed to exist in the wall cavities on the floors below. As there is no reliable test to determine the extent of asbestos within this material, Eagle follows the EPA recommendation that the VAI be treated as an asbestos-containing material.

The remaining suspect 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. Eagle recommends that a project specification for asbestos abatement be prepared to further clarify the type, location and quantity of ACM requiring abatement. This report is not intended to serve as a scope of work or technical specification for asbestos abatement.

All regulated friable and regulated non-friable ACM that will be impacted by renovation activities must be removed prior to or concurrently with renovation activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections and air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual and air clearance inspection criteria prior to being re-occupied.

State of Connecticut Regulatory Notification Requirements

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) calendar days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

United States Environmental Protection Agency Notification Requirements

As of December 14, 2017, the facility owner/operator must provide a notification of demolition and renovation under the USEPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation 40 CFR Part 61 Subpart M. The facility owner must submit notification to the USEPA for all demolition projects ten (10) working days prior to all demolition projects, which fall under the NESHAP regulation regardless of the presence of asbestos-containing materials. The facility owner must also provide notification to the USEPA for all renovation project ten (10) working days prior to all renovation projects involving greater than one hundred sixty (160) square feet or greater than two hundred sixty (260) linear feet or thirty-five (35) cubic feet of regulated asbestos-containing materials.

State and federal notifications are completely independent of one another and both regulatory agencies must be notified when applicable.

4.2 Lead-based Paint

4.2.1 X-Ray Fluorescence Screen

A total of one hundred thirty-five (135) XRF readings were collected during the lead-based paints screen of the building. From the one hundred thirty-five (135) readings, twenty-three (23) were found to contain high levels of lead.

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

- Room 0-01 (basement) wood door and door casing
- Room 1-02 (foyer) wood door and door casing
- Room 1-03 (stairs) wood door jamb
- Room 1-04 (office) wood window casing
- Room 1-08 (office) wood window components
- Room 1-09 (bathroom) wood chair rail
- Room 1-11 wood window components
- Room 2-14 (office) wood window parting bead
- Room 2-15 (office) plaster ceiling, wood door and door stop
- Room 2-16 (safe) metal door jamb
- Room 2-17 (hallway) wood baseboard
- Room 2-20 (office) wood window components

Since not all components in every room were tested during the screen, similar painted components throughout the building are assumed to also be coated with lead-based paint. Additionally, several building materials were determined to contain low levels of lead in paint. Although these levels of lead in paint were less than 1.0 mg/cm^2, the contractor must perform an exposure assessment on employees during tasks that disturb the painted materials.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

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. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of task subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

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

4.2.2 Lead Waste Characterization Results

TCLP waste characterization samples were not collected at this time. Once the scope of the renovations is known, TCLP sampling will be required to characterize the waste removed from the building. Metal components may be recycled at an approved recycling facility.

4.3 PCB Inspection Results Summary

Eagle identified several suspect PCB containing materials that were not tested for PCB content at the building. These potential PCB-containing materials include the following:

- Paints on masonry, wood, metal and plaster components
- Floor tile adhesive
- Vinyl cove base adhesive
- 1'x1' acoustical ceiling tile adhesive
- Countertop adhesive
- Window glazing compound – double hung sashes
- Caulk at window frames
- Asphalt shingles
- Tar damp proofing

These materials will require waste characterization testing if they will be impacted by the renovation activities.

4.4 Universal Waste Materials and Other Environmental Concerns

4.4.1 PCB and Di-ethylhexlpthalate (DEHP) Containing Items

There were no PCB containing lighting ballasts identified during the inspection. Two (2) DEHP containing lighting ballasts were identified during the inspection. The ballasts must be removed for proper recycling/incineration if they will be impacted by the renovation of the building. Light ballasts that have leaked must be segregated from the non-leaking ballasts. Lighting covers or fixtures stained with dielectric fluid must also be removed for proper disposal.

There were no capacitors potentially containing dielectric fluid were identified during the inspection.

Thirty-two (32) electronic ballasts were identified during the inspection. No further action is required for the electronic ballasts.

The associated inspection data is provided in Table III.

4.4.2 Mercury Containing Items

Approximately three hundred two (302) linear feet of fluorescent light tubes were identified during the inspection. There were no mercury containing thermostats identified during the inspection. The fluorescent light tubes must be removed from the building for proper recycling if they will be impacted by renovation activities.

The associated inspection data is provided in Table III.

4.4.3 Used Electronics and Batteries

A total of three (3) emergency lights containing lead-acid batteries associated with the fire alarm were identified during the inspection. The batteries must be removed from the building for proper recycling if they will be impacted by renovation activities.

The associated inspection data is provided in Table III.

4.4.4 Chlorofluorocarbons

There were no items potentially containing a Freon tank identified during the inspection.

5. COST ESTIMATES

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 4.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

KEY FOR TABLES I and II

*** Please utilize the following key for abbreviations used in Tables I and II**

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	CY = Cubic Yard
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION		

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
0-01	Aircell pipe insulation - grey	06-21-RF-119	TSI	50% Chrys			YES	160 LF < 6" diameter	F
		06-21-RF-120		DNA					
0-01	Burner gun gasket - white	06-21-RF-123	MISC	70% Chrys			YES	0.5 SF	F
		06-21-RF-124		DNA					
0-01	Boiler rib cement	Assume	MISC	Assume			Assume	1 CY	NF
0-01	Refractory cement	Assume	MISC	Assume			Assume		F
3-21	Vermiculite attic insulation	Assume	MISC	Assume			Assume	2000 SF	F

TABLE II

NON-ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

KEY FOR TABLES I and II

*** Please utilize the following key for abbreviations used in Tables I and II**

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	CY = Cubic Yard
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION		

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
0-01	Chimney flue cement	06-21-RF-121	MISC	NAD			NO
		06-21-RF-122		NAD			
1-02	Rubber mat adhesive - black	06-21-RF-125	MISC	NAD			NO
		06-21-RF-126		NAD			
1-02	Vinyl cove base adhesive	06-21-RF-129	MISC	NAD			NO
		06-21-RF-130		NAD			
	6" Vinyl cove base - brown	06-21-RF-127	MISC	NAD			
		06-21-RF-128		NAD			
1-04	18" x 32" Acoustical ceiling tile	06-21-RF-131	MISC	NAD			NO
		06-21-RF-132		NAD			
1-07	Felt paper under hardwood floor - black	06-21-RF-133	MISC	NAD			NO
		06-21-RF-134		NAD			
1-07	Adhesive associated with 1' x 1' acoustical ceiling tile - tan	06-21-RF-137	MISC	NAD			NO
		06-21-RF-138		NAD			
	1' x 1' Acoustical ceiling tile - white	06-21-RF-135	MISC	NAD			
		06-21-RF-136		NAD			
1-08	Particle board	06-21-RF-139	MISC	NAD			NO
		06-21-RF-140		NAD			
2-14	Fiberglass batt insulation backing - black	06-21-RF-141	MISC	NAD			NO
		06-21-RF-142		NAD			
2-19	Countertop adhesive	06-21-RF-145	MISC	NAD			NO
		06-21-RF-146		NAD			
	Countertop - black	06-21-RF-143	MISC	NAD			
		06-21-RF-144		NAD			
2-14, 2-15, 2-17, 2-19, Attic	Plaster rough coat - ceiling	06-21-RF-147	SURF	NAD			NO
		06-21-RF-148		NAD			
	Plaster rough coat - wall	06-21-RF-149		NAD			
		06-21-RF-150		NAD			
	Plaster rough coat	06-21-RF-151		NAD			

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
2-15, 2-17, 2-19, Attic	Plaster smooth coat - wall	06-21-RF-152	SURF	NAD			NO
		06-21-RF-153		NAD			
		06-21-RF-154		NAD			
		06-21-RF-155		NAD			
	Plaster smooth coat - ceiling	06-21-RF-156		NAD			
Attic	Sheetrock - type 1	06-21-RF-157	MISC	NAD			NO
		06-21-RF-158		NAD			
Attic	Joint compound - type 1	06-21-RF-159	MISC	NAD			NO
		06-21-RF-160		NAD			
2-14, 2-15, 2-17	Texured ceiling paint	06-21-RF-161	SURF	NAD			NO
		06-21-RF-162		NAD			
		06-21-RF-163		NAD			
Façade A	Caulk at wood window frames - white	06-21-RF-164	MISC	NAD			NO
		06-21-RF-165		NAD			
Façades B & C	Window glazing compound double hung wood sash - tan	06-21-RF-166	MISC	NAD			NO
		06-21-RF-167		NAD			
Façade A	Felt paper under wood shakes - black	06-21-RF-169	MISC	NAD			NO
		06-21-RF-170		NAD			
Façade D	Tar damp proofing	06-21-RF-171	MISC	NAD			NO
		06-21-RF-171A		NAD			
Roof 1	Top layer asphalt shingle	06-21-RF-172	MISC	NAD			NO
		06-21-RF-173		NAD			
Roof 1	Bottom layer asphalt shingle	06-21-RF-174	MISC	NAD			NO
		06-21-RF-175		NAD			
Roof 1	Felt paper	06-21-RF-176	MISC	NAD			NO
		06-21-RF-177		NAD			

TABLE III

UNIVERSAL WASTE MATERIALS SUMMARY TABLE

TABLE III
UNIVERSAL WASTE PRODUCTS
SUMMARY TABLE
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

ROOM	FIXTURE TYPE	BALLAST TYPE			ELECTRONICS			THERMO-STATS	LAMPS			BATTERIES		
		PCB	DEHP	ELEC.	SPENT	CAPACITORS	CFCS		LF	ROUND	U SHAPE	FA	ES	ELS
0-01	1													
1-02				4					4					
1-03									32					
1-04				4										
1-05				1					8					
1-06				1					8					
1-07				4					32			1		
1-08				1					4					
1-09														
1-10			1	8					132					
1-11														
1-12														
1-13														
2-14				2					16					
2-15				3					24			1		
2-16			1						8					
2-17				2					2			1		
2-18														
2-19														
2-20				2					32					
3-21														
TOTAL			**2**	**32**	**0**	**0**	**0**	**0**	**302**	**0**	**0**	**3**	**0**	**0**

NOTES

KEYS: **HALO = Halogen / CF = Compact Fluorescent / FA = Fire Alarm / ES = Exit Sign / ELS = Emergency Lighting System**

FIXTURE TYPE DESCRIPTION

1 = Circuit Board

APPENDIX 1

FLOOR PLANS AND ROOF PLANS WITH SAMPLE LOCATION DIAGRAMS

TOWN OF EAST HADDAM

FORMER OFFICE BUILDING

7 MAIN STREET

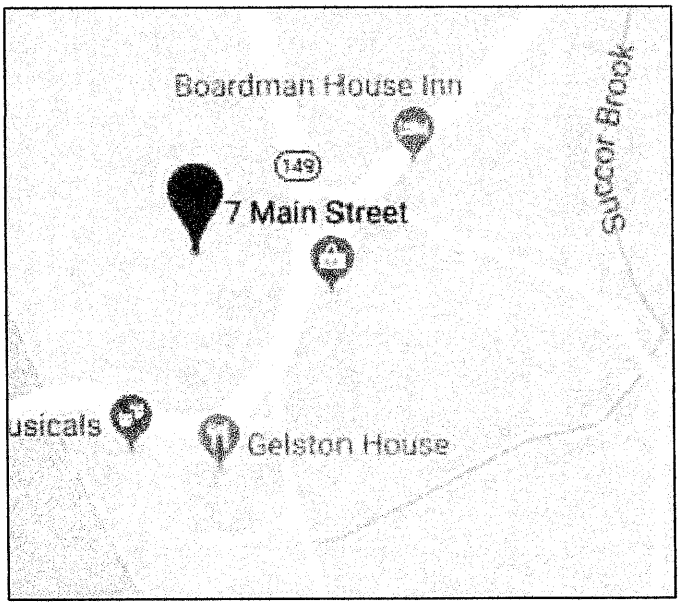
EAST HADDAM, CONNECTICUT

EAGLE PROJECT NUMBER: 18-144.10T4

INDEX OF DRAWINGS

BP-1	BASEMENT
FP-1	FIRST FLOOR
FP-2	SECOND FLOOR
FP-3	ATTIC
RP-1	ROOF

LOCATION MAP



JULY 17, 2018

EAGLE Environmental, Inc.

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

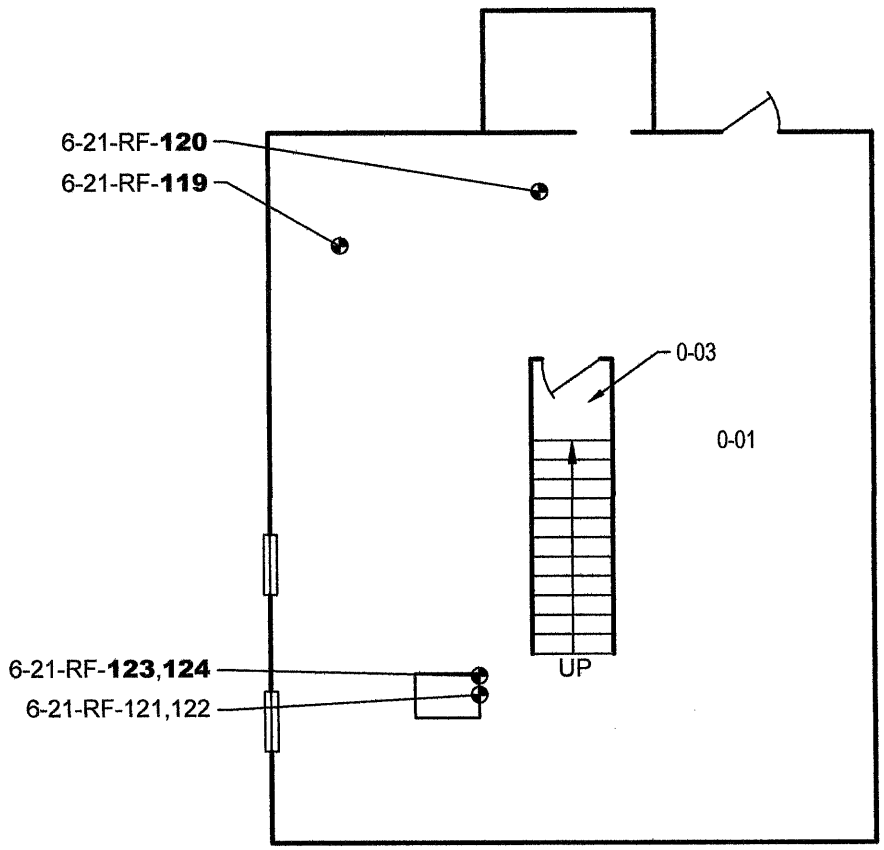
\\Eaglesvr\public\2018 Files\2018 AutoCAD\EAST HADDAM, TOWN OF\7 MAIN STREET - OFFICE BLDG\INSPECTION\CAD\7 MAIN STREET.dwg

SIDE-C

SAMPLE KEY:

6-21-RF-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



SIDE-B

SIDE-D

BASEMENT

NOT TO SCALE

SIDE-A (STREET SIDE)

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

SHEET NO.

BP-1

SHEET 1 OF 5

DATE: 07/17/2018
PROJECT NO.: 18-144.10T4
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

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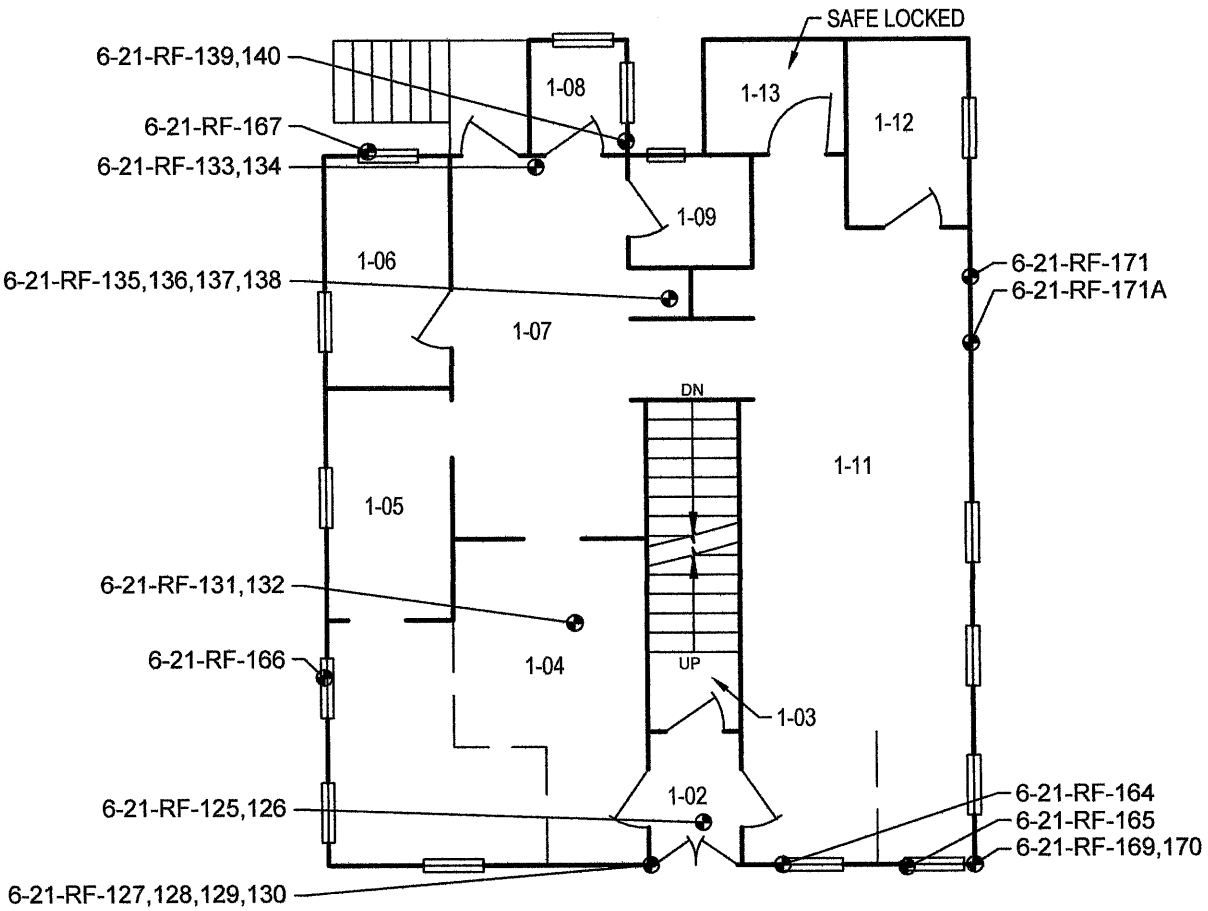
SIDE-C

SAMPLE KEY:

6-21-RF-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



SIDE-B

SIDE-D

FIRST FLOOR

NOT TO SCALE

SIDE-A (STREET SIDE)

EAGLE Environmental, Inc.

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

SHEET NO.

FP-1

DATE: 07/17/2018
PROJECT NO.: 18-144.10T4
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

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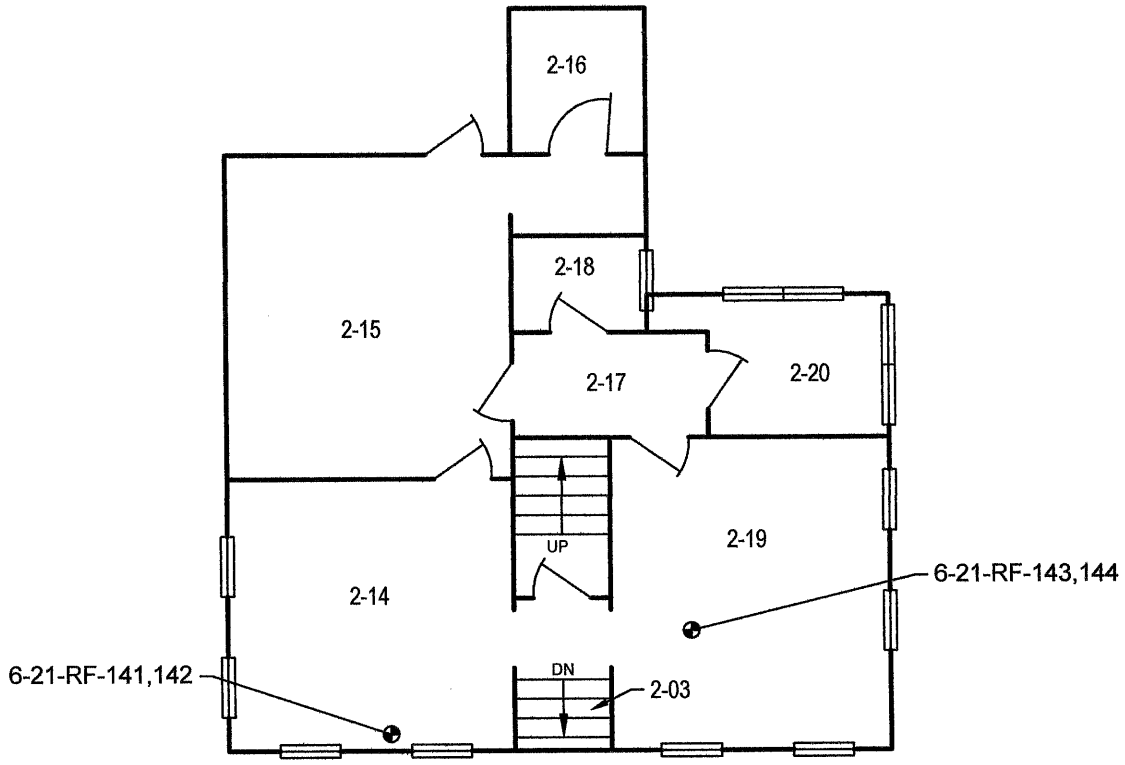
SIDE-C

SAMPLE KEY:

6-21-RF-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



SIDE-B

SIDE-D

SECOND FLOOR

NOT TO SCALE

SIDE-A (STREET SIDE)

EAGLE Environmental, Inc.

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

SHEET NO.

FP-2

SHEET 3 OF 5

DATE: 07/17/2018
PROJECT NO.: 18-144.10T4
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

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SIDE-C

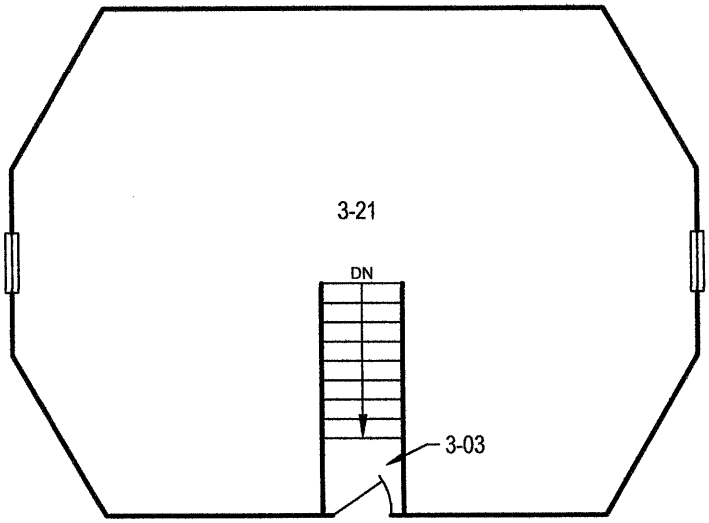
SAMPLE KEY:

6-21-RF-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.

SIDE-B

SIDE-D



ATTIC

NOT TO SCALE

SIDE-A (STREET SIDE)

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

DATE: 07/17/2018
PROJECT NO.: 18-144.10T4
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

SHEET NO.

FP-3

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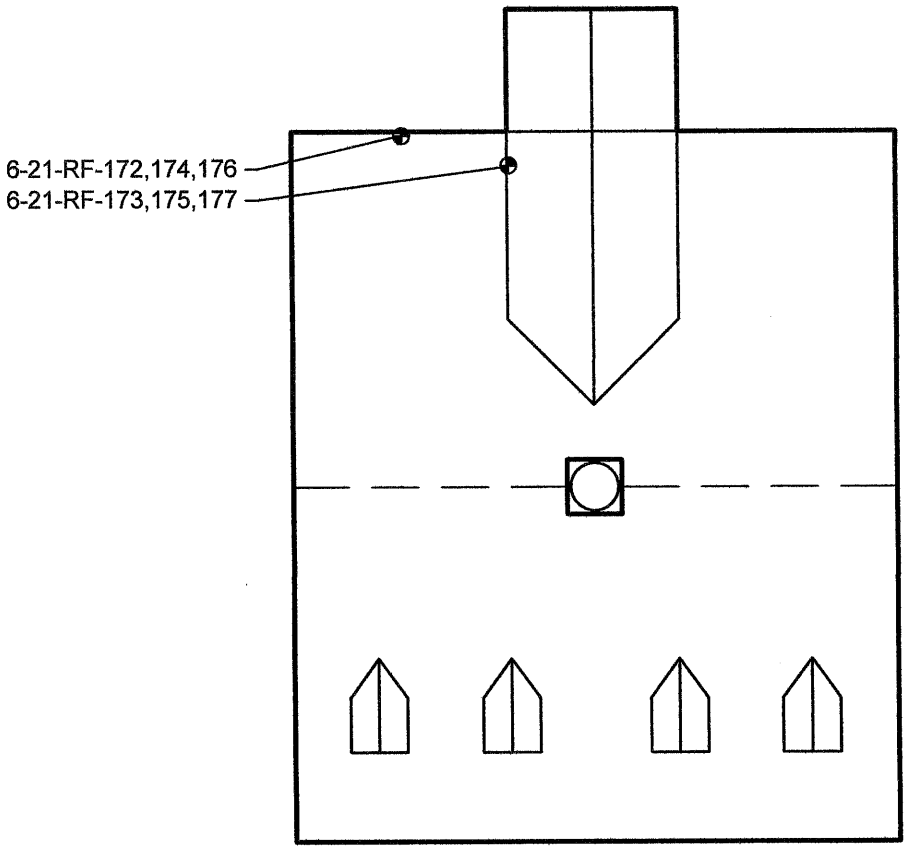
SIDE-C

SAMPLE KEY:

6-21-RF-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



SIDE-B

SIDE-D

ROOF

NOT TO SCALE

SIDE-A (STREET SIDE)

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

SHEET NO.

RP-1

SHEET 5 OF 5

DATE: 07/17/2018
PROJECT NO.: 18-144.10T4
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER TOWN OFFICE BUILDING
7 MAIN STREET
EAST HADDAM, CONNECTICUT

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APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Lab ID # 173190

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Tammy Poitras

Project: Town of E Haddam - Town Office

Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-21-RF-118	NOT SUBMITTED	**Not Submitted**			
51816453PLM_1	*no sample in bag*				
06-21-RF-119	Aircell pipe insulation - grey	**50% Chrysotile**	**30% Cellulose**	**20% Other**	Gray Fibrous Homogeneous
51816453PLM_2					Teased
06-21-RF-120	Aircell pipe insulation - grey	**Not Analyzed**			
51816453PLM_3					
06-21-RF-121	Chimney flue cement	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
51816453PLM_4					Crushed
06-21-RF-122	Chimney flue cement	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
51816453PLM_5					Crushed
06-21-RF-123	Burner gun gasket - white	**70% Chrysotile**		**30% Other**	Gray Fibrous Homogeneous
51816453PLM_6					Teased
06-21-RF-124	Burner gun gasket - white	**Not Analyzed**			
51816453PLM_7					
06-21-RF-125	Rubber mat adhesive - black	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
51816453PLM_8					Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (61)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Lab ID # 173190

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Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-21-RF-126 *51816453PLM_9*	Rubber mat adhesive - black	None Detected		100% Other	Gray Non Fibrous Homogeneous Crushed
06-21-RF-129 *51816453PLM_10*	Vinyl cove base adhesive	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
06-21-RF-130 *51816453PLM_11*	Vinyl cove base adhesive	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
06-21-RF-127 *51816453PLM_12*	6" Vinyl cove base - brown	None Detected		100% Other	Black Non Fibrous Homogeneous Ashed
06-21-RF-128 *51816453PLM_13*	6" Vinyl cove base - brown	None Detected		100% Other	Black Non Fibrous Homogeneous Ashed
06-21-RF-131 *51816453PLM_14*	18" x 32" Acoustical ceiling tile	None Detected	90% Cellulose	10% Other	White, Brown Fibrous Heterogeneous Dissolved, Teased
06-21-RF-132 *51816453PLM_15*	18" x 32" Acoustical ceiling tile	None Detected	97% Cellulose	3% Other	White, Brown Fibrous Heterogeneous Dissolved, Teased
06-21-RF-133 *51816453PLM_16*	Felt paper under hardwood floor - black	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous Dissolved, Teased

Bethany Nichols (61)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

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Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-21-RF-134 / *51816453PLM_17*	Felt paper under hardwood floor - black	None Detected	70% Cellulose	30% Other	Black Fibrous Heterogeneous / Dissolved, Teased
06-21-RF-137 / *51816453PLM_18*	Adhesive associated with 1' x 1' ACT - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous / Dissolved
06-21-RF-138 / *51816453PLM_19*	Adhesive associated with 1' x 1' ACT - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous / Dissolved
06-21-RF-135 / *51816453PLM_20*	1' x 1' Acoustical ceiling tile - white	None Detected	40% Cellulose 40% Fiber Glass	10% Perlite 10% Other	White, Gray Fibrous Homogeneous / Ashed, Teased
06-21-RF-136 / *51816453PLM_21*	1' x 1' Acoustical ceiling tile - white	None Detected	40% Cellulose 40% Fiber Glass	10% Perlite 10% Other	White, Gray Fibrous Homogeneous / Ashed, Teased
06-21-RF-139 / *51816453PLM_22*	Particle board	None Detected	90% Cellulose	10% Other	White, Brown Fibrous Heterogeneous / Dissolved, Teased
06-21-RF-140 / *51816453PLM_23*	Particle board	None Detected	90% Cellulose	10% Other	White, Brown Fibrous Heterogeneous / Dissolved, Teased
06-21-RF-141 / *51816453PLM_24*	Fiberglass batt insulation backing - black	None Detected	80% Cellulose	20% Other	Black Fibrous Homogeneous / Ashed, Teased

Bethany Nichols (61)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Lab ID # 173190

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Tammy Poitras

Project: Town of E Haddam - Town Office

Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-21-RF-142 / *51816453PLM_25*	Fiberglass batt insulation backing - black	None Detected	80% Cellulose	20% Other	Black Fibrous Homogeneous Ashed, Teased
06-21-RF-145 / *51816453PLM_26*	Countertop adhesive	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
06-21-RF-146 / *51816453PLM_27*	Countertop adhesive	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
06-21-RF-143 / *51816453PLM_28*	Countertop - black	None Detected	80% Cellulose	20% Other	Black Fibrous Homogeneous Ashed, Teased
06-21-RF-144 / *51816453PLM_29*	Countertop - black	None Detected	80% Cellulose	20% Other	Black Fibrous Homogeneous Ashed, Teased
06-21-RF-147 / *51816453PLM_30*	Plaster rough coat - ceiling	None Detected		50% Quartz 50% Other	Gray Non Fibrous Homogeneous Crushed
06-21-RF-148 / *51816453PLM_31*	Plaster rough coat - ceiling	None Detected		50% Quartz 50% Other	Gray Non Fibrous Homogeneous Crushed
06-21-RF-149 / *51816453PLM_62*	Plaster rough coat - wal	None Detected		80% Other 20% Quartz	Gray Non Fibrous Homogeneous Crushed

Bethany Nichols (61)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Lab ID # 173190

Customer: Eagle Environmental, Inc
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Terryville, CT 06786

Attn: Tammy Poitras

Project: Town of E Haddam - Town Office

Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-21-RF-150 *51816453PLM_63*	Plaster rough coat - wall	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
06-21-RF-151 *51816453PLM_34*	Plaster rough coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-152 *51816453PLM_35*	Plaster smooth coat - wall	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-153 *51816453PLM_36*	Plaster smooth coat - wall	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-154 *51816453PLM_37*	Plaster smooth coat - wall	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-155 *51816453PLM_38*	Plaster smooth coat - wall	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-156 *51816453PLM_39*	Plaster smooth coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-157 *51816453PLM_40*	Sheetrock - type 1 *joint compound only*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed

Bethany Nichols (61)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Tammy Poitras

Project: Town of E Haddam - Town Office

Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-21-RF-158 *51816453PLM_41*	Sheetrock - type 1 *joint compound only*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
06-21-RF-159 *51816453PLM_42*	Joint compound - type 1 *drywall: none detect; joint compnd: none detect*	**None Detected**	**15% Cellulose**	**85% Other**	Gray, Brown, White Fibrous Heterogeneous Teased, Crushed
06-21-RF-160 *51816453PLM_43*	Joint compound - type 1 *drywall: none detect; joint compnd: none detect*	**None Detected**	**15% Cellulose**	**85% Other**	Gray, Brown, White Fibrous Heterogeneous Teased, Crushed
06-21-RF-161 *51816453PLM_44*	Texured ceiling paint	**None Detected**		**80% Other** **20% Quartz**	White Non Fibrous Homogeneous Crushed, Dissolved
06-21-RF-162 *51816453PLM_45*	Texured ceiling paint	**None Detected**		**80% Other** **20% Quartz**	White Non Fibrous Homogeneous Crushed, Dissolved
06-21-RF-163 *51816453PLM_46*	Texured ceiling paint	**None Detected**		**80% Other** **20% Quartz**	White Non Fibrous Homogeneous Crushed, Dissolved
06-21-RF-164 *51816453PLM_47*	Caulk at wood window frames - white	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
06-21-RF-165 *51816453PLM_48*	Caulk at wood window frames - white	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (61)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Lab ID # 173190

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Tammy Poitras

Project: Town of E Haddam - Town Office

Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-21-RF-166	Window glazing compound dbl hung wood sash - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous
51816453PLM_49					Dissolved
06-21-RF-167	Window glazing compound dbl hung wood sash - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous
51816453PLM_50					Dissolved
06-21-RF-168	NOT SUBMITTED	Not Submitted			
51816453PLM_51					
06-21-RF-169	Felt paper under wood shakes - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816453PLM_52					Ashed, Teased
06-21-RF-170	Felt paper under wood shakes - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816453PLM_53					Ashed, Teased
06-21-RF-171	Tar dry proofing	None Detected		100% Other	Gray Non Fibrous Homogeneous
51816453PLM_54					Crushed
06-21-RF-171A	Tar dry proofing	None Detected		100% Other	Gray Non Fibrous Homogeneous
51816453PLM_55					Crushed
06-21-RF-172	Top layer asphalt shingle	None Detected	20% Fiber Glass	80% Other	Black, Gray Fibrous Heterogeneous
51816453PLM_56					Dissolved, Teased

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (61)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Lab ID # 173190

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Tammy Poitras

Project: Town of E Haddam - Town Office

Lab Order ID: 51816453
Analysis ID: 51816453_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018
Date Amended: *7/13/2018*

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-21-RF-173	Top layer asphalt shingle	None Detected	20% Fiber Glass	80% Other	Black, Gray Fibrous Heterogeneous
51816453PLM_57					Dissolved, Teased
06-21-RF-174	Bottom layer asphalt shingle	None Detected	20% Fiber Glass	80% Other	Black, Gray Fibrous Heterogeneous
51816453PLM_58					Dissolved, Teased
06-21-RF-175	Bottom layer asphalt shingle	None Detected	20% Fiber Glass	80% Other	Black, Gray Fibrous Heterogeneous
51816453PLM_59					Dissolved, Teased
06-21-RF-176	Felt paper	None Detected	70% Cellulose 10% Fiber Glass	20% Other	Black Fibrous Homogeneous
51816453PLM_60					Ashed, Teased
06-21-RF-177	Felt paper	None Detected	70% Cellulose 10% Fiber Glass	20% Other	Black Fibrous Homogeneous
51816453PLM_61					Ashed, Teased

Bethany Nichols (61)

Analyst

Approved Signatory

59 samples

51811453

Client:	Eagle Environmental, Inc
Contact:	Tammy Poitras
Address:	8 South Main Street
Phone:	860-589-8257 x110
Fax:	860-585-7034
Email:	tpoitras@eagleenviro.com
Project:	Town of E Haddam - Town Office
Client Notes:	**Stop on 1st Positve**
P.O. #.	18-144-10T4
Date Submitted:	6/22/2018 0:00
Analysis:	PLM: Bulk 600/R-93/116
TurnAroundTime:	24 Hours

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
06-21-RF-118	NOT SUBMITTED	NOT SUBMITTED	[Enter data of your choosing here]
06-21-RF-119	0-01	sel Aircell pipe insulation - grey	[Enter data of your choosing here]
06-21-RF-120	0-01	Aircell pipe insulation - grey	[Enter data of your choosing here]
06-21-RF-121	0-01	sel Chimney flue cement	[Enter data of your choosing here]
06-21-RF-122	0-01	Chimney flue cement	[Enter data of your choosing here]
06-21-RF-123	0-01	sel Burner gun gasket - white	[Enter data of your choosing here]
06-21-RF-124	0-01	Burner gun gasket - white	[Enter data of your choosing here]
06-21-RF-125	1-02	sel Rubber mat adhesive - black	[Enter data of your choosing here]
06-21-RF-126	1-02	Rubber mat adhesive - black	[Enter data of your choosing here]
06-21-RF-129	1-02	sel Vinyl cove base adhesive	[Enter data of your choosing here]
06-21-RF-130	1-02	Vinyl cove base adhesive	[Enter data of your choosing here]
06-21-RF-127	1-02	6" Vinyl cove base - brown	[Enter data of your choosing here]
06-21-RF-128	1-02	6" Vinyl cove base - brown	[Enter data of your choosing here]
06-21-RF-131	1-04	sel 18" x 32" Acoustical ceiling tile	[Enter data of your choosing here]
06-21-RF-132	1-04	18" x 32" Acoustical ceiling tile	[Enter data of your choosing here]
06-21-RF-133	1-07	Felt paper under hardwood floor - black	[Enter data of your choosing here]
06-21-RF-134	1-07	sel Felt paper under hardwood floor - black	[Enter data of your choosing here]

Relinquished By

Accepted ☑

Rejected ☐

Received By 6/30 10:30am

5181453

06-21-RF-137	1-07	Adhesive associated with 1' x 1' ACT - tan	[Enter data of your choosing here]
06-21-RF-138	1-07	Adhesive associated with 1' x 1' ACT - tan	[Enter data of your choosing here]
06-21-RF-135	1-07	1' x 1' Acoustical ceiling tile - white	[Enter data of your choosing here]
06-21-RF-136	1-07	1' x 1' Acoustical ceiling tile - white	[Enter data of your choosing here]
06-21-RF-139	1-08	Particle board	[Enter data of your choosing here]
06-21-RF-140	1-08	Particle board	[Enter data of your choosing here]
06-21-RF-141	2-14	Fiberglass batt insulation backing - black	[Enter data of your choosing here]
06-21-RF-142	2-14	Fiberglass batt insulation backing - black	[Enter data of your choosing here]
06-21-RF-145	2-19	Countertop adhesive	[Enter data of your choosing here]
06-21-RF-146	2-19	Countertop adhesive	[Enter data of your choosing here]
06-21-RF-143	2-19	Countertop - black	[Enter data of your choosing here]
06-21-RF-144	2-19	Countertop - black	[Enter data of your choosing here]
06-21-RF-147	2-14	Plaster rough coat - ceiling	[Enter data of your choosing here]
06-21-RF-148	2-15	Plaster rough coat - ceiling	[Enter data of your choosing here]
06-21-RF-149	2-17	Plaster rough coat - wall	[Enter data of your choosing here]
06-21-RF-150	2-19	Plaster rough coat - wall	[Enter data of your choosing here]
06-21-RF-151	Attic	Plaster rough coat	[Enter data of your choosing here]
06-21-RF-152	2-14	Plaster smooth coat - wall	[Enter data of your choosing here]
06-21-RF-153	2-15	Plaster smooth coat - wall	[Enter data of your choosing here]
06-21-RF-154	2-17	Plaster smooth coat - wall	[Enter data of your choosing here]
06-21-RF-155	2-19	Plaster smooth coat - wall	[Enter data of your choosing here]
06-21-RF-156	Attic	Plaster smooth coat	[Enter data of your choosing here]
06-21-RF-157	Attic	Sheetrock - type 1	[Enter data of your choosing here]
06-21-RF-158	Attic	Sheetrock - type 1	[Enter data of your choosing here]
06-21-RF-159	Attic	Joint compound - type 1	[Enter data of your choosing here]
06-21-RF-160	Attic	Joint compound - type 1	[Enter data of your choosing here]
06-21-RF-161	2-14	Texured ceiling paint	[Enter data of your choosing here]
06-21-RF-162	2-15	Texured ceiling paint	[Enter data of your choosing here]
06-21-RF-163	2-17	Texured ceiling paint	[Enter data of your choosing here]
06-21-RF-164	Façade A	Caulk at wood window frames - white	[Enter data of your choosing here]
06-21-RF-165	Façade A	Caulk at wood window frames - white	[Enter data of your choosing here]
06-21-RF-166	Façade B	Window glazing compound dbl hung wood sash - tan	[Enter data of your choosing here]
06-21-RF-167	Façade C	Window glazing compound dbl hung wood sash - tan	[Enter data of your choosing here]
06-21-RF-168	NOT SUBMITTED	NOT SUBMITTED	[Enter data of your choosing here]
06-21-RF-169	Façade A	Felt paper under wood shakes - black	[Enter data of your choosing here]
06-21-RF-170	Façade A	Felt paper under wood shakes - black	[Enter data of your choosing here]

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Received By

5181453

06-21-RF-171	Façade D	sel C	Tar dry proofing
06-21-RF-171A	Façade D		Tar dry proofing
06-21-RF-172	Roof 1	sel C	Top layer asphalt shingle
06-21-RF-173	Roof 1		Top layer asphalt shingle
06-21-RF-174	Roof 1	sel C	Bottom layer asphalt shingle
06-21-RF-175	Roof 1		Bottom layer asphalt shingle
06-21-RF-176	Roof 1	sel C	Felt paper
06-21-RF-177	Roof 1		Felt paper

>>

[Enter data of your choosing here]
[Enter data of your choosing here]
[Enter data of your choosing here]
[Enter data of your choosing here]
[Enter data of your choosing here]
[Enter data of your choosing here]
[Enter data of your choosing here]

Relinquished By

Received By

APPENDIX 3

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01509 - 06/21/18 09:28

INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation
Town of East Haddam
26 Plains Road, PO Box 401
Modus, Connecticut 06469

PERFORMED AT: Former Town Hall (Interiors)
1 Main Street
East Haddam, CT

INSPECTION DATE: 06/21/18

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

ACTION LEVEL: 1.0 mg/cm^2

OPERATOR LICENSE: 002282

Lead Based-Paint Screen

SIGNED: Alexis St. Hilaire Date: 6/22/18

Alexis St. Hilaire
Lead Inspector
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, CT 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Inspection Date:	06/21/18	Former Town Hall (Interiors)
Report Date:	6/22/2018	1 Main Street
Abatement Level:	1.0	East Haddam, CT
Report No.	S#01509 - 06/21/18 09:28	
Total Readings:	135 Actionable: 23	
Job Started:	06/21/18 09:28	
Job Finished:	06/21/18 12:10	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 Basement									
007	C	Door	Rgt	Casing	D	Wood	red	2.9	QM
008	C	Door	Rgt	door	D	Wood	red	2.2	QM
Interior Room 002 Foyer									
022	A	Door	Ctr	Casing	I	Wood	white	1.9	QM
023	A	Door	Ctr	door	D	Wood	white	2.9	QM
Interior Room 003 Stairs									
017	C	Door	Ctr	Jamb	I	Wood	white	1.0	QM
Interior Room 004 Office									
030	A	Window	Rgt	Casing	I	Wood	white	1.0	QM
Interior Room 008 Office									
051	D	Window	Ctr	ext. jamb	D	Wood	black	2.8	QM
052	D	Window	Ctr	ext. stop	D	Wood	black	3.1	QM
050	D	Window	Ctr	Part. bead	D	Wood	black	3.0	QM
Interior Room 009 Bathroom									
061	D	Chair Rail	Rgt		I	Wood	white	1.0	QM
Interior Room 011 Number Only									
076	D	Window	Lft	ext. jamb	D	Wood	black	2.9	QM
077	D	Window	Lft	ext. stop	D	Wood	black	3.3	QM
080	D	Window	Lft	Ext. Sash	D	Wood	black	5.0	QM
075	D	Window	Lft	Part. bead	D	Wood	black	2.4	QM
Interior Room 014 Office									
095	A	Window	Lft	Part. bead	D	Wood	white	3.4	QM
Interior Room 015 Office									
099	- lower	Ceiling	Rgt		I	Plaster	Yellow	1.0	QM
101	C	Door	Rgt	door	D	Wood	white	6.9	QM
103	C	Door	Rgt	Stop	D	Wood	white	1.9	QM
Interior Room 016 safe									
110	A	Door	Ctr	Jamb	I	Steel	black	1.0	QM
Interior Room 017 Hallway									

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
112	C	Baseboard	Rgt		I	Wood	white	1.0	QM
Interior Room 020 Office									
125	D	Window	Rgt	ext. jamb	D	Wood	black	2.1	QM
126	D	Window	Rgt	ext. stop	D	Wood	black	1.8	QM
129	D	Window	Rgt	Ext. Sash	D	Wood	black	4.8	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Inspection Date:	06/21/18	Former Town Hall (Interiors)
Report Date:	6/22/2018	1 Main Street
Abatement Level:	1.0	East Haddam, CT
Report No.	S#01509 - 06/21/18 09:28	
Total Readings:	135	
Job Started:	06/21/18 09:28	
Job Finished:	06/21/18 12:10	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 Basement									
006	-	Column	Ctr		I	Steel	silver	0.0	QM
004	A	Wall	Lft		I	Concrete	white	0.3	QM
005	B	Window	Lft	Sash	I	Wood	white	0.2	QM
007	C	Door	Rgt	Casing	D	Wood	red	2.9	QM
008	C	Door	Rgt	door	D	Wood	red	2.2	QM
Interior Room 002 Foyer									
020	A	Wall	Rgt		I	Dry wall	Yellow	0.1	QM
022	A	Door	Ctr	Casing	I	Wood	white	1.9	QM
023	A	Door	Ctr	door	D	Wood	white	2.9	QM
021	C	Wall	H Lft		D	Wood	Yellow	-0.2	QM
Interior Room 003 Stairs									
014	-	Ceiling	Ctr		I	Plaster	white	0.4	QM
026	-	Ceiling	Ctr		I	Plaster	white	0.4	QM
025	-	Stairs	Ctr	Stringers	I	Wood	Yellow	0.0	QM
010	-	Stairs	Ctr	Treads	D	Wood	blue	0.0	QM
011	-	Stairs	Ctr	Risers	D	Wood	blue	-0.1	QM
024	-	Stairs	Ctr	Risers	I	Wood	Yellow	-0.2	QM
013	-	Railing	Ctr	Balusters	D	Wood	blue	0.0	QM
012	-	Railing	Ctr	Railing	I	Wood	stain	0.0	QM
015	B	I-Beam	Ctr		I	Steel	red	-0.1	QM
132	B	Wall	Lft		D	Plaster	white	0.3	QM
009	B	Wall	Ctr		D	Plaster	blue	0.2	QM
016	C	Door	Ctr	Casing	I	Wood	white	0.4	QM
017	C	Door	Ctr	Jamb	I	Wood	white	1.0	QM
018	C	Door	Ctr	Stop	I	Wood	white	0.3	QM
019	C	Door	Ctr	door	I	Wood	white	-0.3	QM
Interior Room 004 Office									
036	-	Floor	Ctr		D	Wood	stain	0.0	QM
034	A	Overhang	Rgt		I	Wood	white	-0.2	QM
033	A	Soffit	Rgt		I	Wood	white	-0.1	QM
030	A	Window	Rgt	Casing	I	Wood	white	1.0	QM
031	A	Window	Rgt	Sash	I	Wood	white	-0.1	QM
032	A	Window	Rgt	Sill	I	Wood	Yellow	-0.2	QM
035	D	Crown Mldg	Ctr		I	Wood	white	0.2	QM
028	D	Wall	L Lft		I	Dry wall	blue	0.4	QM
027	D	Wall	U Lft		I	Dry wall	Yellow	0.4	QM
029	D	Baseboard	Lft		I	Wood	white	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 005 Office									
037	B	Vent	Ctr	Casing	I	Wood	white	0.4	QM
038	B	Vent	Ctr		I	Metal	white	0.2	QM
039	B	Window	Ctr	Jamb	D	Wood	white	0.2	QM
040	B	Window	Ctr	Part. bead	D	Wood	white	0.5	QM
Interior Room 006 Office									
041	C	Wall	Rgt		I	Dry wall	blue	0.2	QM
042	C	Baseboard	Rgt		I	Wood	white	0.3	QM
043	D	Door	Ctr	Casing	I	Wood	white	-0.2	QM
044	D	Door	Ctr	Jamb	I	Wood	white	-0.1	QM
045	D	Door	Ctr	Stop	I	Wood	white	0.2	QM
046	D	Door	Ctr	door	I	Wood	white	-0.5	QM
Interior Room 007 Number Only									
047	-	Ceiling	Lft	Beam	I	Wood	white	0.1	QM
Interior Room 008 Office									
058	-	Floor	Ctr		D	Wood	stain	-0.2	QM
059	-	Ceiling at door entry	Ctr		I	Wood	white	0.4	QM
056	D	Vent	Ctr	Casing	I	Wood	white	0.6	QM
057	D	Vent	Ctr		I	Metal	white	0.1	QM
048	D	Window	Ctr	Stop	I	Wood	white	0.4	QM
049	D	Window	Ctr	Jamb	D	Wood	white	-0.2	QM
051	D	Window	Ctr	ext. jamb	D	Wood	black	2.8	QM
052	D	Window	Ctr	ext. stop	D	Wood	black	3.1	QM
053	D	Window	Ctr	Sash	D	Wood	white	0.1	QM
055	D	Window	Ctr	Apron	I	Wood	white	0.3	QM
054	D	Window	Ctr	Sill	I	Wood	white	0.3	QM
050	D	Window	Ctr	Part. bead	D	Wood	black	3.0	QM
Interior Room 009 Bathroom									
062	-	Ceiling	Ctr		I	Dry wall	white	-0.1	QM
063	C	Crown Mldg	Rgt		I	Wood	white	0.3	QM
066	C	fan enclosur	Rgt		I	Wood	white	0.0	QM
064	C	Window	Rgt	Casing	I	Wood	white	0.3	QM
065	C	Window	Rgt	Sash	I	Wood	white	-0.2	QM
061	D	Chair Rail	Rgt		I	Wood	white	1.0	QM
060	D	Wall	Rgt	Beam	I	Wood	Yellow	-0.2	QM
Interior Room 010 Hallway									
068	-	Ceiling	Ctr		I	Plaster	white	0.5	QM
070	A	Wall	Lft	Beam	I	Steel	white	-0.1	QM
071	A	Baseboard	Rgt		I	Wood	white	0.0	QM
069	A	Ceiling	Ctr	Trim	I	Wood	white	0.2	QM
067	C	Wall	Rgt		I	Dry wall	Yellow	0.0	QM
Interior Room 011 Number Only									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
073	-	Ceiling	Ctr	Beam	I	Wood	white	0.1	QM
072	B	Wall	Rgt		I	Paneling	Yellow	0.2	QM
081	C	safe	Lft	Door Casing	D	Wood	white	-0.1	QM
082	C	safe	Lft	Door	D	Steel	blue	0.1	QM
074	D	Window	Lft	Stop	I	Wood	white	0.4	QM
076	D	Window	Lft	ext. jamb	D	Wood	black	2.9	QM
077	D	Window	Lft	ext. stop	D	Wood	black	3.3	QM
080	D	Window	Lft	Ext. Sash	D	Wood	black	5.0	QM
078	D	Window	Lft	Sash	D	Wood	white	-0.1	QM
079	D	Window	Lft	Sill	D	Wood	white	0.1	QM
075	D	Window	Lft	Part. bead	D	Wood	black	2.4	QM
Interior Room 012 Bathroom									
086	-	Ceiling	Ctr		I	Plaster	white	0.4	QM
083	B	Chair Rail	Rgt		I	Wood	white	0.5	QM
085	B	Wall	L Rgt		I	Paneling	Yellow	0.1	QM
084	B	Wall	U Rgt		I	Dry wall	Yellow	-0.1	QM
087	C	Shelving	Ctr		I	Wood	white	0.0	QM
Interior Room 014 Office									
097	-	Floor	Lft		I	Wood	stain	-0.2	QM
098	A	Shelving	Rgt	Casing	I	Wood	white	0.1	QM
094	A	Window	Lft	Jamb	D	Wood	white	0.2	QM
096	A	Window	Lft	Sash	D	Wood	white	0.2	QM
095	A	Window	Lft	Part. bead	D	Wood	white	3.4	QM
093	B	Closet	Lft	Door	I	Wood	white	0.5	QM
088	C	Wall	Ctr		I	Plaster	Yellow	0.4	QM
089	D	Door	Rgt	Casing	I	Wood	white	0.5	QM
090	D	Door	Rgt	Jamb	I	Wood	white	0.2	QM
091	D	Door	Rgt	Stop	D	Wood	white	0.2	QM
092	D	Door	Rgt	door	I	Wood	white	0.2	QM
Interior Room 015 Office									
100	- upper	Ceiling	Lft		I	Plaster	white	0.4	QM
099	- lower	Ceiling	Rgt		I	Plaster	Yellow	1.0	QM
101	C	Door	Rgt	door	D	Wood	white	6.9	QM
102	C	Door	Rgt	Jamb	D	Wood	white	0.4	QM
103	C	Door	Rgt	Stop	D	Wood	white	1.9	QM
104	C	Door	Rgt	Threshold	D	Wood	blue	0.2	QM
Interior Room 016 safe									
107	-	Ceiling	Lft		I	Plaster	white	0.6	QM
108	A	Door	Ctr	Threshold	D	Wood	blue	-0.2	QM
109	A	Door	Ctr	Stop	I	Steel	black	0.5	QM
110	A	Door	Ctr	Jamb	I	Steel	black	1.0	QM
111	A	Door	Ctr	door	I	Steel	black	0.2	QM
105	C	Wall	Rgt		I	Plaster	white	0.3	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
106	D	Shelving	Lft		I	Wood	Yellow	0.6	QM
Interior Room 017 Hallway									
112	C	Baseboard	Rgt		I	Wood	white	1.0	QM
113	D	Wall	Lft		I	Plaster	Yellow	0.3	QM
Interior Room 018 Bathroom									
119	A	Door	Rgt	Jamb	I	Wood	white	0.4	QM
120	A	Door	Rgt	Stop	I	Wood	white	0.6	QM
121	A	Door	Rgt	door	I	Wood	white	0.5	QM
115	D	Chair Rail	Lft		I	Wood	white	0.4	QM
116	D	Wall	L Lft		I	Paneling	white	0.3	QM
114	D	Wall	U Lft		I	Plaster	Yellow	0.1	QM
117	D	Window	Lft	Sash	I	Wood	white	0.3	QM
118	D	Window	Lft	Sill	I	Wood	white	0.3	QM
Interior Room 020 Office									
131	-	Crown Mldg	Rgt		I	Wood	Yellow	0.3	QM
130	-	Ceiling	Rgt		I	Plaster	Yellow	-0.1	QM
	lower								
122	C	Baseboard	Lft		D	Wood	white	-0.1	QM
123	D	Window	Rgt	Stop	I	Wood	white	0.1	QM
125	D	Window	Rgt	ext. jamb	D	Wood	black	2.1	QM
126	D	Window	Rgt	ext. stop	D	Wood	black	1.8	QM
129	D	Window	Rgt	Ext. Sash	D	Wood	black	4.8	QM
127	D	Window	Rgt	Sash	D	Wood	white	0.2	QM
128	D	Window	Rgt	Sill	I	Wood	white	-0.2	QM
124	D	Window	Rgt	Part. bead	D	Wood	black	0.4	QM
Calibration Readings									
001								0.9	TC
002								0.8	TC
003								0.8	TC
133								0.9	TC
134								1.0	TC
135								1.1	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01509 - 06/21/18 12:41

INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation
Town of East Haddam
26 Plains Road, PO Box 401
Modus, Connecticut 06469

PERFORMED AT: Former Town Hall (Exteriors)
1 Main Street
East Haddam, CT

INSPECTION DATE: 06/21/18

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

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002282

Lead Based-Paint Screen

SIGNED: Alexis St. Hilaire **Date:** 6/22/18

Alexis St. Hilaire
Lead Inspector
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, CT 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Inspection Date:	06/21/18	Former Town Hall (Exteriors)
Report Date:	6/22/2018	1 Main Street
Abatement Level:	1.0	East Haddam, CT
Report No.	S#01509 - 06/21/18 12:41	
Total Readings:	24 Actionable: 12	
Job Started:	06/21/18 12:41	
Job Finished:	06/21/18 13:13	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
001	A	Siding	Lft		D	Wood	white	2.8	QM
008	A	Window	Rgt	Casing	I	Wood	white	4.1	QM
003	A	Door	Ctr	door	D	Wood	black	2.0	QM
Exterior Room 002 Facade B									
009	B	Bas Win	Rgt	Sash	D	Wood	black	1.9	QM
011	B	Siding	Rgt		D	Wood	white	4.3	QM
012	B	Window	Lft	Sash	D	Wood	black	1.6	QM
Exterior Room 003 Facade C									
013	C	Siding	Rgt		D	Wood	white	7.4	QM
017	C	Window	Lft	Casing	D	Wood	black	3.2	QM
014	C	Door	Rgt	Casing	D	Wood	white	5.0	QM
015	C	Door	Rgt	door	D	Wood	white	2.8	QM
016	C	Door	Rgt	Stop	D	Wood	white	3.6	QM
Exterior Room 004 Facade D									
021	D	Window	Lft	Sash	D	Wood	black	1.6	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Ronald Turner, Direc. of Operation

Inspection Date:	06/21/18	Former Town Hall (Exteriors)
Report Date:	6/22/2018	1 Main Street
Abatement Level:	1.0	East Haddam, CT
Report No.	S#01509 - 06/21/18 12:41	
Total Readings:	24	
Job Started:	06/21/18 12:41	
Job Finished:	06/21/18 13:13	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
001	A	Siding	Lft		D	Wood	white	2.8	QM
007	A	Soffit	Ctr		I	Wood	white	0.4	QM
008	A	Window	Rgt	Casing	I	Wood	white	4.1	QM
002	A	Door	Ctr	Casing	D	Wood	white	0.6	QM
003	A	Door	Ctr	door	D	Wood	black	2.0	QM
004	A	Door	Ctr	Kickplate	D	Wood	white	-0.2	QM
006	A	Railing	Ctr	Balusters	I	Metal	black	-0.2	QM
005	A	Railing	Ctr	Railing	I	Metal	black	-0.1	QM
Exterior Room 002 Facade B									
009	B	Bas Win	Rgt	Sash	D	Wood	black	1.9	QM
010	B	Bas Win	Rgt	Sill	D	Wood	black	0.0	QM
011	B	Siding	Rgt		D	Wood	white	4.3	QM
012	B	Window	Lft	Sash	D	Wood	black	1.6	QM
Exterior Room 003 Facade C									
013	C	Siding	Rgt		D	Wood	white	7.4	QM
017	C	Window	Lft	Casing	D	Wood	black	3.2	QM
018	C	Window	Lft	Lintel	D	Metal	black	0.2	QM
014	C	Door	Rgt	Casing	D	Wood	white	5.0	QM
015	C	Door	Rgt	door	D	Wood	white	2.8	QM
016	C	Door	Rgt	Stop	D	Wood	white	3.6	QM
Exterior Room 004 Facade D									
019	D	Siding	Lft		D	Wood	white	0.5	QM
020	D	Window	Lft	Casing	D	Wood	white	0.2	QM
021	D	Window	Lft	Sash	D	Wood	black	1.6	QM
Calibration Readings									
022								0.9	TC
023								1.0	TC
024								1.0	TC

---- End of Readings ----

APPENDIX 4

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS ABATEMENT AND CONSULTING COST ESTIMATES

FORMER TOWN OFFICE

7 MAIN STREET

EAST HADDAM, CONNECTICUT

ESTIMATE INCLUDES COMPLETE REMOVAL OF ALL IDENTIFIED MATERIALS. CONSULTING FEES MAY BE REDUCED IF COMBINED WITH REMAINING 2 BUILDINGS AT THE SITE

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
AIRCELL PIPE INSULATION	160	$ 30.00 LF	$ 4,800.00
BURNER GUN GASKET	1	$ 350.00 SF	$ 350.00
BOILER RIB CEMENT AND REFRACTORY CEMENT	*1*	*$ 2,000.00 BOILER*	*$ 2,000.00*
VERMICULITE INSULATION	*2,000*	*$ 8.00 SF*	*$ 16,000.00*
SUBTOTAL			$ 23,150.00
ASBESTOS ABATEMENT CONTINGENCY			$ 2,315.00
ASBESTOS TOTAL			**$ 25,465.00**

ITALICS = MATERIAL ASSUMED TO BE ASBESTOS CONTAINING

LEAD BASED PAINT COST ESTIMATE

MATERIAL: RENOVATION SCOPE AND TCLP TESTING REQUIRED PRIOR TO DEVELOPING FINAL LEAD ABATEMENT SCOPE OF WORK. ASSUMES ALL LEAD-COATED COMPONENTS REMOVED AND DISPOSED OF AS HAZARDOUS LEAD WASTE.

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD BASED PAINT ALLOWANCE	1	$ 15,000.00 SUM	$ 15,000.00
SUBTOTAL			$ 15,000.00
LEAD DEMOLITION CONTINGENCY			$ 1,500.00
LEAD DEMOLITION TOTAL			**$ 16,500.00**

UNIVERSAL WASTE ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LIGHT BALLAST DISPOSAL	2	$ 5.00 EACH	$ 10.00
LIGHT TUBES DISPOSAL	302	$ 2.00 LF	$ 604.00
LEAD ACID BATTERIES DISPOSAL	3	$ 5.00 EACH	$ 15.00
LABOR	1	$ 500.00 DAY	$ 500.00
SUBTOTAL			$ 1,129.00
UNIVERSAL WASTE ABATEMENT CONTINGENCY			$ 282.25
UNIVERSAL WASTE TOTAL			**$ 1,411.25**

CHLOROFLUOROCARBONS ABATEMENT COST ESTIMATE

NO CHLOROFLUORCARBON ABATEMENT REQUIRED UNDER THIS SCOPE OF WORK

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL	**$**	**43,376.25**

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST		TOTAL COST	
TCLP SAMPLE ANALYSIS	1	$80.00	EACH	$	80.00
TCLP SAMPLE ANALYSIS REPORT	1	$350.00	EACH	$	350.00
ASBESTOS ABATEMENT SPECIFICATIONS	1	$1,500.00	EACH	$	1,500.00
LEAD ABATEMENT SPECIFICATIONS	1	$500.00	EACH	$	500.00
UNIVERSAL WASTE ABATEMENT SPECIFICATION	1	$350.00	EACH	$	350.00
ABATEMENT CONTRACT DRAWINGS	1	$1,000.00	EACH	$	1,000.00
ALTERNATIVE WORK PRACTICE DEVELOPMENT	1	$500.00	EACH	$	500.00
PREBID CONFERENCE	1	$350.00	EACH	$	350.00
PRECONSTRUCTION CONFERENCE	1	$350.00	EACH	$	350.00
DAILY MONITORING/CLEARANCES	6	$585.00	DAY	$	3,510.00
PCM AIR SAMPLE ANALYSIS	65	$8.00	EACH	$	520.00
TEM AIR SAMPLE ANALYSIS	5	$90.00	EACH	$	450.00
PROJECT MANAGEMENT	5	$100.00	HOUR	$	500.00
SENIOR PROJECT MANAGEMENT	2	$130.00	HOUR	$	260.00
ASBESTOS ABATEMENT DOCUMENTATION REPORT	1	$600.00	EACH	$	600.00
SUBTOTAL				$	10,820.00
CONSULTING CONTINGENCY				$	1,082.00
CONSULTING TOTAL				**$**	**11,902.00**

GRAND TOTAL **$ 55,278.25**

***NOTE - This estimate does not include the test remediation of PCB-containing materials**

APPENDIX 5

EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY CERTIFICATES

CERTIFICATE OF ACHIEVEMENT

This certifies that

Raymond R. Folino

has successfully completed the

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

conducted by

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

Gregory Morsch

Principal Instructor: Gregory Morsch

May 17, 2018
Date of Course

May 17, 2019
Expiration Date

Gregory Morsch

Regional Training Manager: Gregory Morsch

SIAR-6048
Certificate Number

May 17, 2018
Examination Date

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

CERTIFICATE NO.
000137

RAYMOND R FOLINO

CURRENT THROUGH
10/31/18

VALIDATION NO.
03-634342

SIGNATURE

Raymond

COMMISSIONER

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
04/30/19

VALIDATION NO.
03-675765

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Alexis St. Hilaire

44 Fuller Road, Barkhamsted, CT 06063

has successfully completed the

EPA Model Lead Risk Assessor Initial Training

745.225

conducted by
ATC Group Services, LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Principal Instructor: Neal Freuden
September 14-15, 2017
Date of Course

June 2, 2017
Interim Expiration Date

Regional Training Director: Gregory Morsch
EPARA-659
Certificate Number

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

ALEXIS M ST HILAIRE

CERTIFICATE NO.
002282

CURRENT THROUGH
12/31/18

VALIDATION NO.
03-677021

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.

SCIENTIFIC ANALYTICAL INSTITUTE, INC.

LOCATED AT 4604 DUNDAS DRIVE IN GREENSBORO, NC 27407

AND REGISTERED IN THE NAME OF NATHANIEL DURHAM

THIS CERTIFICATE IS ISSUED IN THE NAME OF NATHANIEL DURHAM 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:

DRINKING WATER
Examination For:
ASBESTOS

ENVIRONMENTAL HEALTH & HOUSING
LEAD IN PAINT
LEAD (PAINT) IN SOIL
LEAD IN DUST WIPES

BUILDING MATERIALS
Examination For:
ASBESTOS FIBERS – PCM. TEM
ASBESTOS IN BULK – PLM, TEM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

EFFECTIVE RENEWAL DATE JANUARY 1, 2018

THIS CERTIFICATE EXPIRES DECEMBER 31, 2019 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 19th DAY OF December, 2017

Registration No.

PH-0336

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION