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/Demolition Hazardous Building Materials Inspection Report
Former River House
1 Main Street
East Haddam, Connecticut
Eagle Project No. 18-144.10T3

Dear Mr. Turner:

Please find the report for the hazardous building materials inspection conducted at the Former River House Building located at 1 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 potential renovation or demolition 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

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Executive Vice President

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1. INTRODUCTION

On June 20, 2018, Eagle Environmental, Inc. (Eagle) conducted a hazardous building material inspection of the Former River House located at 1 Main Street in East Haddam, Connecticut. The scope of the hazardous building material 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 potential renovation or demolition of the building.

1.1 Building Description

One of the two subject buildings located at 1 Main Street in East Haddam, Connecticut is a two-story residential structure of wood frame construction known as the River House. The structure was built in 1930 and appeared to have undergone minor renovations over time. The building is constructed over a full basement. The existing mechanical equipment consists of an oil-fired boiler with cast iron radiators. Remnants of an abandoned forced hot air duct system remain in the plaster walls. The existing steam distribution system is un-insulated. The basement piping is exposed and all risers are contained within the walls on the floors above. The abandoned duct system is insulated with asbestos-containing (AC) paper. The boiler is located in the basement of the structure. The interior walls and ceilings are of a two-coat plaster on gypsum backer board system. The kitchen has been renovated and contains a small amount of sheetrock and joint compound on the walls. The window frames and sashes are of wood construction. The door frames are wood with wood doors. The floors are hardwood and the kitchen and bathroom are finished with resilient flooring finishes. The exterior facades are clad with wood clapboard siding on the first floor and wood shakes on the second floor. The main roof is pitched with a sloped porch roof. The roof is covered with wood shakes and two layers of asphalt shingles.

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 a building prior to demolition or 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 3611 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 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).

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-four (54) bulk samples of suspect ACM were collected and fifty-one (51) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

From the fifty-one (51) samples analyzed, the materials listed below were found to be ACM:

- White paper duct insulation above basement plaster ceiling and in wall chases
- Black condensate coating on sink

The white paper duct insulation is associated with the abandoned forced air system. The paper duct insulation was identified on metal ducts above the plaster ceiling in the basement and within limited plaster wall chases on the first and second floors.

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 building renovations. All regulated friable and regulated non-friable ACM must be removed from the building prior to demolition 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 re-occupancy or building renovation/demolition. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

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 forty-six (146) XRF readings were collected during the lead-based paint screen of the building. From the one hundred forty-six (146) readings, fifty-five (55) 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) ceiling beam, steel column, window sash, wall, door components, stairs treads and risers
- Room 0-02 (basement storage) door components and window sash
- Room ST-3 (stairs) floors, ceiling, wood stair components, wall and window components
- Room 1-04 (kitchen) plaster ceiling and walls
- Room 1-05 (women's lavatory) window sash
- Room 1-07 (dining room) window components
- Room 1-08 (living room) window sash
- Room 2-10 (office) window sash
- Room 2-11 (bathroom) ceiling and walls
- Exterior wood siding, soffit, fascia, porch floor, porch ceilings, window casings, window sills, door casings and railing balusters, basement window sashes and drain boot

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. Following the inspection of the building, the Owner reported that the building may be renovated instead of demolished. TCLP sampling could not be performed because the extent of renovation was not known. If renovation work or building demolition are performed in the future, TCLP sampling will be required to characterize the waste removed from the building.

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
- Window glazing compound – double hung sashes
- Basement window glazing compound
- Asphalt shingle
- Caulk at window sashes
- Caulk at storm screens

These materials will require waste characterization testing prior to building demolition or 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. Four (4) DEHP containing lighting ballasts were identified during the inspection. The ballasts must be removed for proper recycling/incineration prior to demolition of the building or if they will be impacted by renovation activities. 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 identified during the inspection.

Two (2) 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 two hundred ninety (290) linear feet of fluorescent light tubes and two (2) mercury containing thermostats were identified during the inspection. The fluorescent light tubes and thermostat must be removed from the building for proper recycling prior to building demolition or if they will be impacted by renovation activities.

The associated inspection data is provided in Table III.

4.4.3 Used Electronics and Batteries

Approximately eight (8) emergency lights containing lead-acid batteries were identified during the inspection. The batteries must be removed from the building for proper recycling prior to building demolition or if they will be impacted by renovation activities.

The associated inspection data is provided in Table III.

4.4.4 Chlorofluorocarbons

There were three (3) window AC units potentially containing a Freon tank identified during the inspection. The Freon must be reclaimed prior to building demolition or if the tanks will become a waste product during renovation activities.

5. COST ESTIMATES

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost for the complete removal of all identified materials. 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	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION		

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
FORMER RIVER HOUSE
1 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	Paper duct insulation - white (above plaster ceiling)	06-20-RF-01	TSI	70% Chrys			YES	40 SF	F
		06-20-RF-02		DNA					
		06-20-RF-03		DNA					
0-01	Paper duct insulation - white (debris on the floor)	06-20-RF-01	TSI	70% Chrys			YES	3 SF	F
		06-20-RF-02		DNA					
		06-20-RF-03		DNA					
1-07, 2-12, 2-13	Paper duct insulation - white (in wall chase)	06-20-RF-01	TSI	70% Chrys			YES	50 SF	F
		06-20-RF-02		DNA					
		06-20-RF-03		DNA					
1-04	Condensate coating on sink - black	06-20-RF-07A	MISC	3% Chrys			YES	1 Sink	NF
		06-20-RF-08		DNA					

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

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
FORMER RIVER HOUSE
1 MAIN STREET
EAST HADDAM, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
1-04	Floor tile mastic - brown	06-20-RF-04	MISC	NAD			NO
		06-20-RF-05		NAD			
1-04	12" x 12" Floor tile - green	06-20-RF-06	MISC	NAD			NO
		06-20-RF-07		NAD			
1-04	Formica countertop - white	06-20-RF-09	MISC	NAD			NO
		06-20-RF-10		NAD			
1-05	Particle board flooring - brown	06-20-RF-11	MISC	NAD			NO
		06-20-RF-12		NAD			
ST-03	Textured ceiling paint	06-20-RF-13	SURF	NAD			NO
		06-20-RF-14		NAD			
		06-20-RF-15		NAD			
Attic	Blown-in insulation - white	06-20-RF-16	MISC	NAD			NO
		06-20-RF-17		NAD			
0-01, 0-02, 1-07, 1-08, ST-03, 2-11, 2-13	Plaster rough coat - grey	06-20-RF-18	SURF	NAD			NO
		06-20-RF-19		NAD			
		06-20-RF-20		NAD			
		06-20-RF-21		NAD			
		06-20-RF-22		NAD			
		06-20-RF-23		NAD			
		06-20-RF-24		NAD			
0-01, 0-02, 1-07, 1-08, ST-03, 2-11, 2-13	Plaster smooth coat - white	06-20-RF-25	SURF	NAD			NO
		06-20-RF-26		NAD			
		06-20-RF-27		NAD			
		06-20-RF-28		NAD			
		06-20-RF-29		NAD			
		06-20-RF-30		NAD			
		06-20-RF-31		NAD			
B-01, 1-07	Sheetrock - Type 1	06-20-RF-32	MISC	NAD			NO
		06-20-RF-33		NAD			
1-04, 1-05	Sheetrock - Type 2	06-20-RF-34	MISC	NAD			NO
		06-20-RF-35		NAD			
1-04, 1-05	Joint compound	06-20-RF-36	MISC	NAD			NO
		06-20-RF-37		NAD			

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
FORMER RIVER HOUSE
1 MAIN STREET
EAST HADDAM, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Façade A	Window glazing compound double hung wood sash - tan	06-20-RF-38	MISC	NAD			NO
		06-20-RF-39		NAD			
Façade A	Asphalt and felt paper under clapboard siding	06-20-RF-40	MISC	NAD			NO
		06-20-RF-41		NAD			
Façades B, D	Window glazing compound basement wood sash - tan	06-20-RF-42	MISC	NAD			NO
		06-20-RF-43		NAD			
Roof 1	Top layer asphalt shingle - black	06-20-RF-44	MISC	NAD			NO
		06-20-RF-45		NAD			
Roof 1	Felts below asphalt shingle - black	06-20-RF-46	MISC	NAD			NO
		06-20-RF-47		NAD			
Roof 1	Felts below wood roof shakes - black	06-20-RF-48	MISC	NAD			NO
		06-20-RF-49		NAD			
Façade D	Caulk at single hung wood sash	06-20-RF-50	MISC	NAD			NO
		06-20-RF-51		NAD			
Façade D	Caulk at storm screen - white	06-20-RF-52	MISC	NAD			NO
		06-20-RF-53		NAD			

TABLE III

UNIVERSAL WASTE MATERIALS SUMMARY TABLE

TABLE III
UNIVERSAL WASTE PRODUCTS
SUMMARY TABLE
FORMER RIVER HOUSE
1 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
0-02	1								88					
0-03	2,4													1
1-04	1								40			1	1	1
1-05														
1-06	3		2						1					
1-07	1							1	32					
1-08	4		2				1 @ A/C	1	32					
1-09	4			1			1 @ A/C		32			1	1	
2-10	1, 4						1 @ A/C		16					
2-11				1					1					
2-12	1, 4								16			1	1	
Hallway														
3-16 Attic									32					
TOTAL			**4**	**2**	**0**	**0**	**3**	**2**	**290**	**0**	**0**	**3**	**3**	**2**

NOTES

KEYS:	**HALO = Halogen / A/C = Air Conditioner / FA = Fire Alarm / ES = Exit Sign / ELS = Emergency Lighting System**
FIXTURE TYPE DESCRIPTION	**1 = DSRAM energy saver 8 bulb - ballast "NO PCB"**
	2 = Circuit boards in server
	3 = Small 1" ballast (2 in light) rusted unable to read
	4 = Decorative light fixture fastened to wall

APPENDIX 1

FLOOR PLANS AND ROOF PLANS WITH SAMPLE LOCATION DIAGRAMS

TOWN OF EAST HADDAM

FORMER RIVER HOUSE

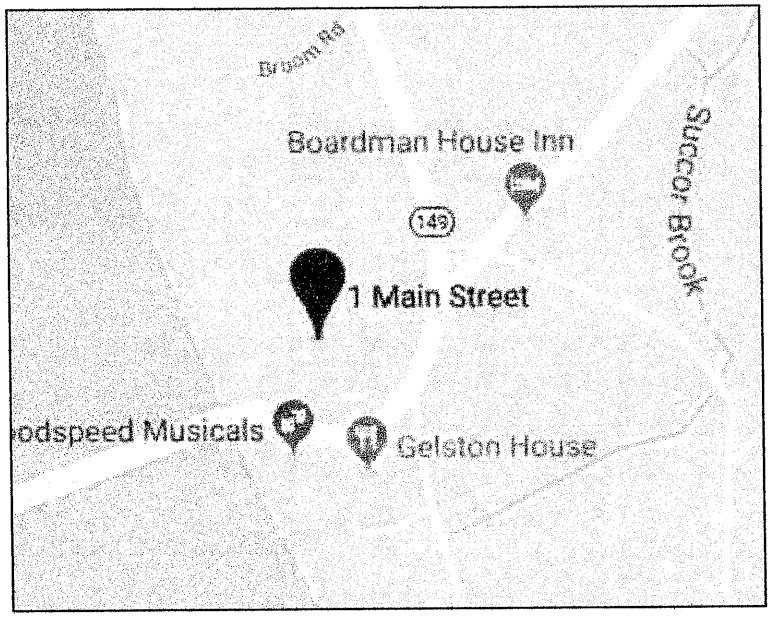
1 MAIN STREET

EAST HADDAM, CONNECTICUT

EAGLE PROJECT NUMBER: 18-144.10T3

INDEX OF DRAWINGS

LOCATION MAP



JULY 13, 2018

EAGLE Environmental, Inc.

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

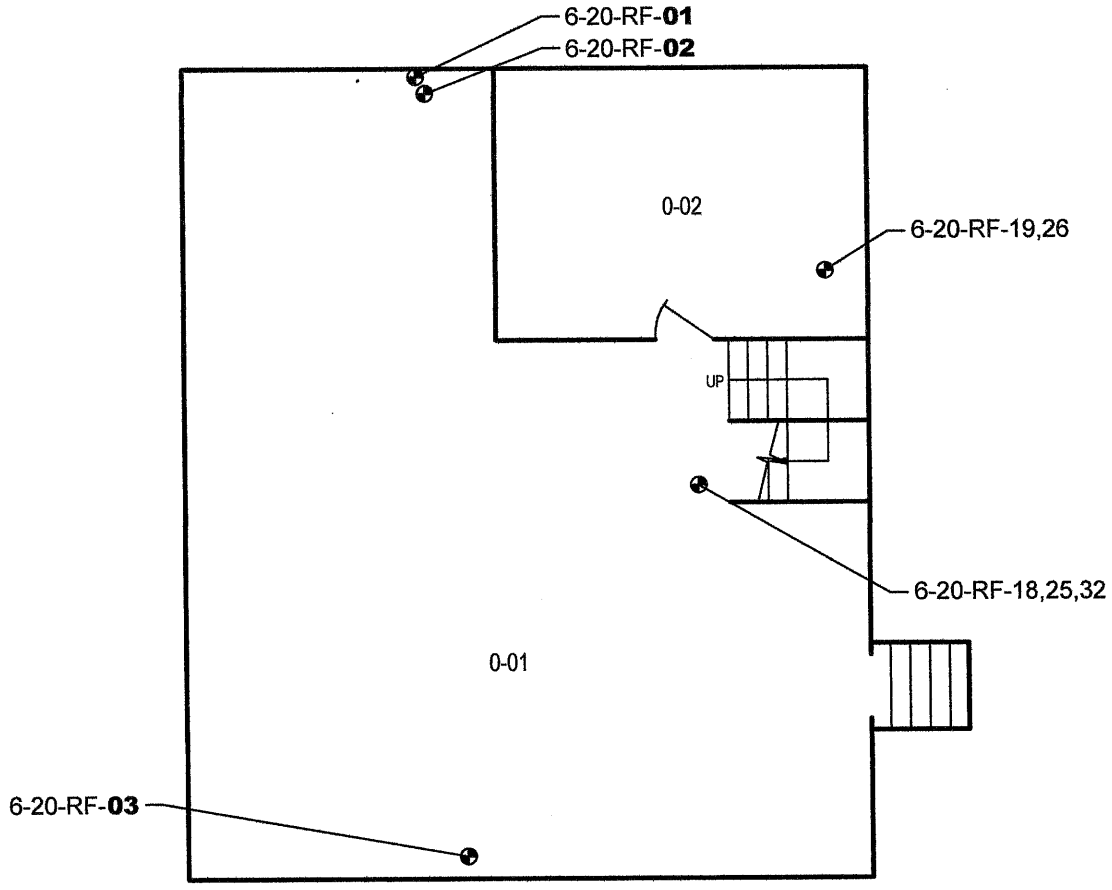
\\Eaglesvr\public\2018 Files\2018 AutoCAD\EAST HADDAM, TOWN OF\1 MAIN STREET\FORMER RIVER HOUSE\INSPECTION\CAD\1 MAIN STREET.dwg

SIDE-C

SAMPLE KEY:

6-20-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: 07/13/2018
PROJECT NO.: 18-144.10T3
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER RIVER HOUSE
1 MAIN STREET
EAST HADDAM, CONNECTICUT

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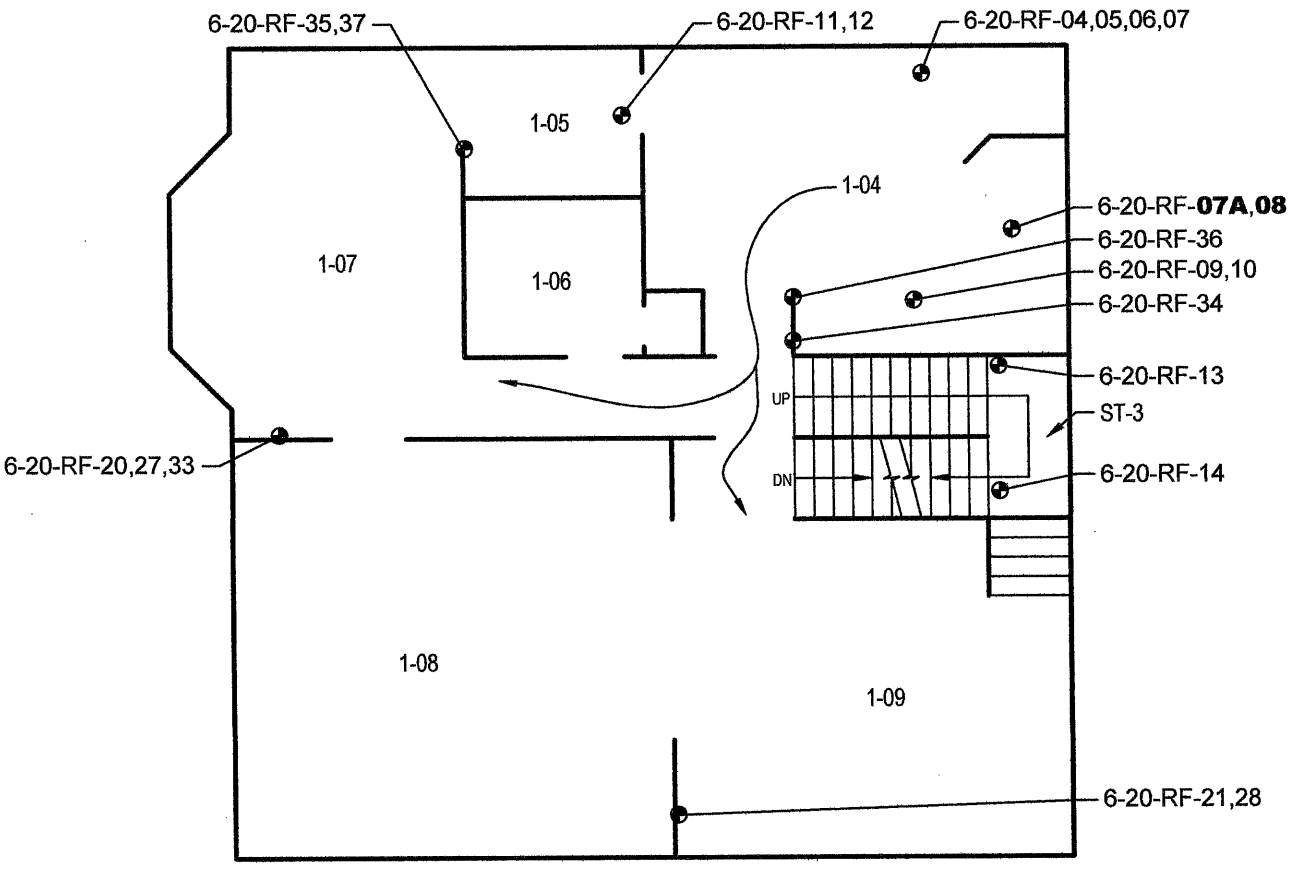
SIDE-C

SAMPLE KEY:

6-20-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

SHEET 2 OF 5

DATE: 07/13/2018
PROJECT NO.: 18-144.10T3
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER RIVER HOUSE
1 MAIN STREET
EAST HADDAM, CONNECTICUT

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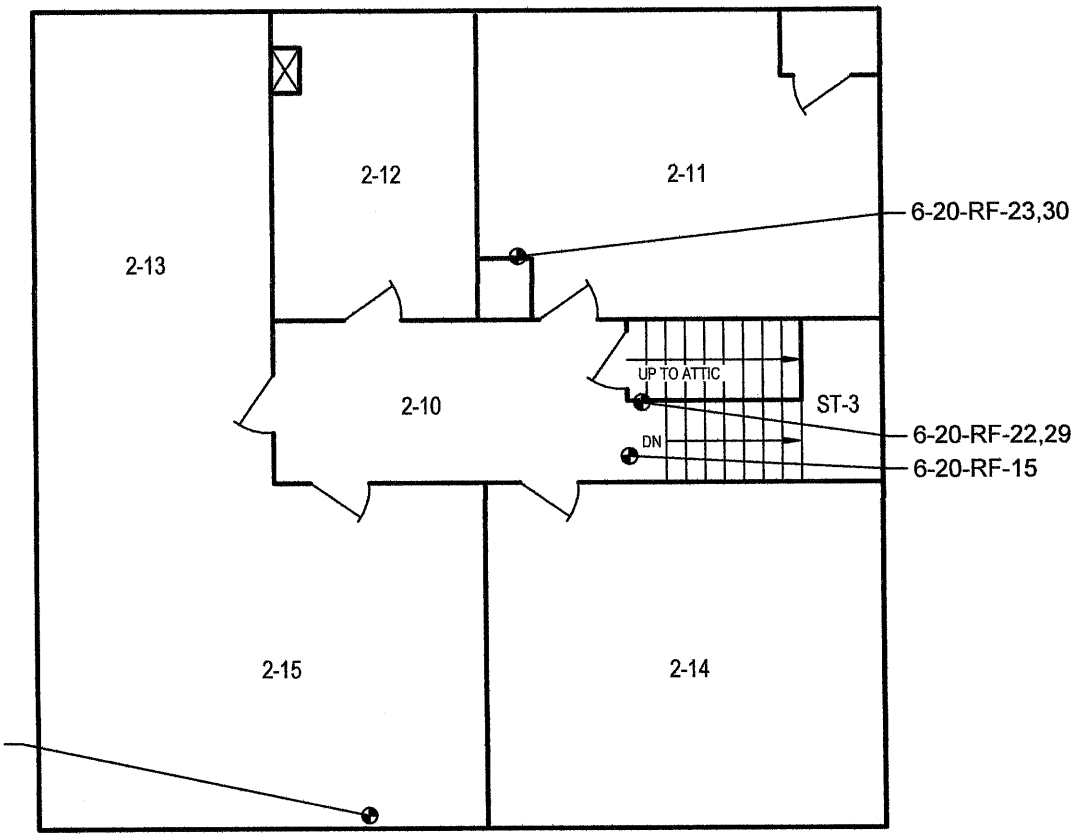
SIDE-C

SAMPLE KEY:

6-20-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: 07/13/2018
PROJECT NO.: 18-144.10T3
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER RIVER HOUSE
1 MAIN STREET
EAST HADDAM, CONNECTICUT

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SIDE-C

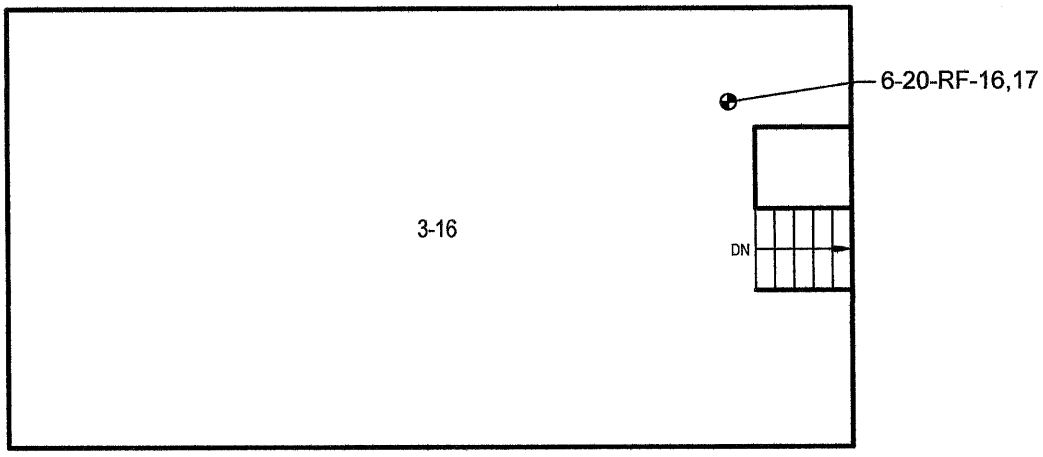
SAMPLE KEY:

6-20-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

SHEET NO.

FP-3

SHEET 4 OF 5

DATE: 07/13/2018
PROJECT NO.: 18-144.10T3
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER RIVER HOUSE
1 MAIN STREET
EAST HADDAM, CONNECTICUT

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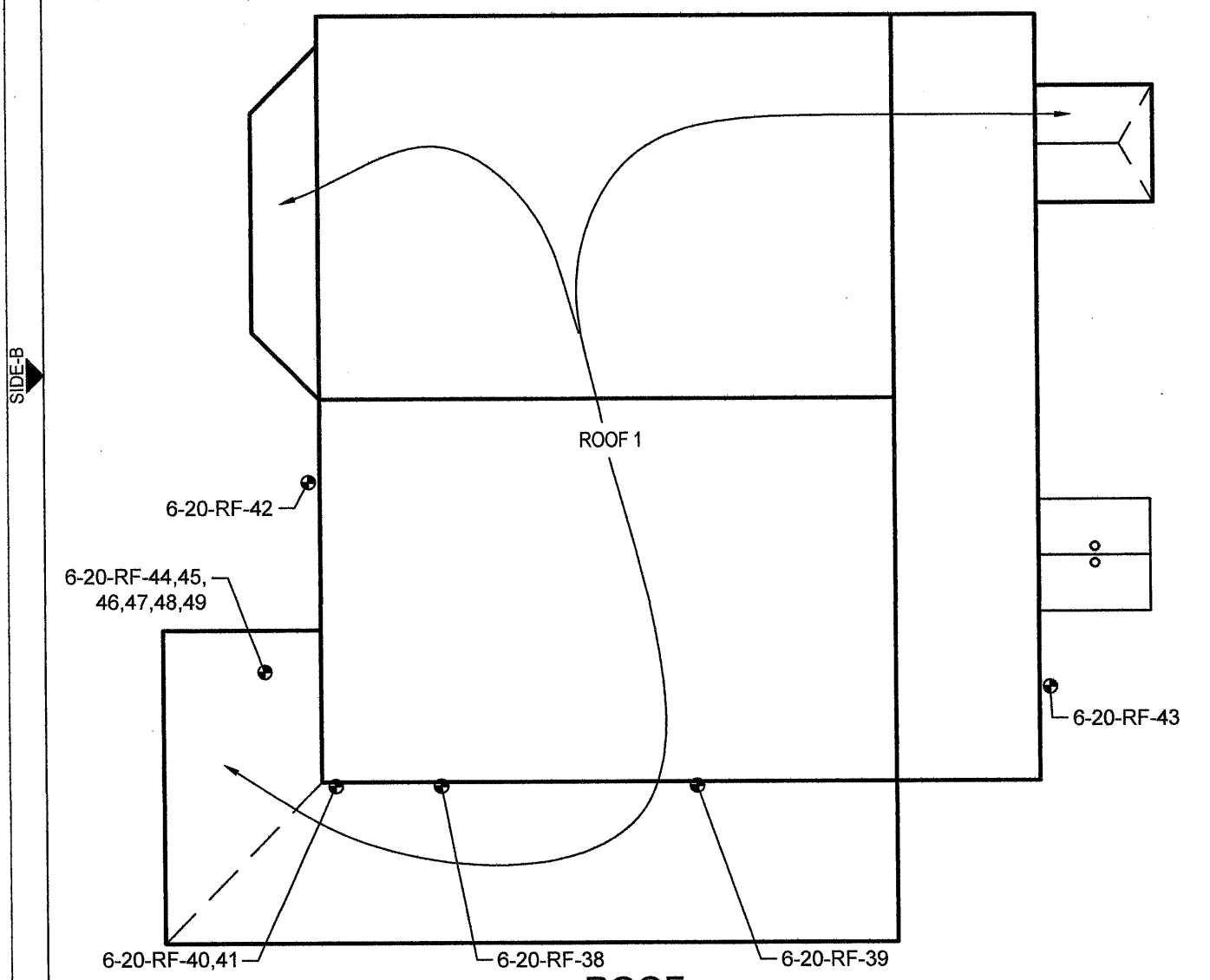
SIDE-C

SAMPLE KEY:

6-20-RF-## = ASBESTOS SAMPLE LOCATION AND NUMBER

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



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: 07/13/2018
PROJECT NO.: 18-144.10T3
DRAWN BY: BB
REVIEWED BY: CL

HAZARDOUS BUILDING MATERIALS INSPECTION
TOWN OF EAST HADDAM
FORMER RIVER HOUSE
1 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 - River House

Lab Order ID: 51816455
Analysis ID: 51816455_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-20-RF-01	Paper duct insulation - white	**70% Chrysotile**		**30% Other**	White Fibrous Homogeneous
51816455PLM_1					Dissolved
06-20-RF-02	Paper duct insulation - white	**Not Analyzed**			
51816455PLM_2					
06-20-RF-03	Paper duct insulation - white	**Not Analyzed**			
51816455PLM_3					
06-20-RF-04	Floor tile mastic - brown	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
51816455PLM_4					Dissolved
06-20-RF-05	Floor tile mastic - brown	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
51816455PLM_5					Dissolved
06-20-RF-06	12" x 12" Floor tile - green	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous
51816455PLM_6					Dissolved
06-20-RF-07	12" x 12" Floor tile - green	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous
51816455PLM_7					Dissolved
06-20-RF-07A	Condensate coating on sink - black	**3% Chrysotile**		**97% Other**	Black Non Fibrous Homogeneous
51816455PLM_8					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%.

Philip Szabo (54)

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

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

Attn: Tammy Poitras

Project: Town of E Haddam - River House

Lab Order ID: 51816455
Analysis ID: 51816455_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-20-RF-08 *51816455PLM_9*	Condensate coating on sink - black	**Not Analyzed**			
06-20-RF-09 *51816455PLM_10*	Formica countertop - white	**None Detected**	**20% Cellulose**	**80% Other**	White Non Fibrous Homogeneous Ashed, Dissolved
06-20-RF-10 *51816455PLM_11*	Formica countertop - white	**None Detected**	**20% Cellulose**	**80% Other**	White Non Fibrous Homogeneous Ashed, Dissolved
06-20-RF-11 *51816455PLM_12*	Particle board flooring - brown	**None Detected**	**98% Cellulose**	**2% Other**	Brown Fibrous Homogeneous Ashed, Dissolved
06-20-RF-12 *51816455PLM_13*	Particle board flooring - brown	**None Detected**	**98% Cellulose**	**2% Other**	Brown Fibrous Homogeneous Ashed, Dissolved
06-20-RF-13 *51816455PLM_14*	Textured ceiling paint	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
06-20-RF-14 *51816455PLM_15*	Textured ceiling paint	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
06-20-RF-15 *51816455PLM_16*	Textured ceiling paint	**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%.

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Analyst

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Bulk Asbestos Analysis

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

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Analysis ID: 51816455_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-20-RF-16	Blown-in insulation - white	None Detected	98% Mineral Wool	2% Other	White Fibrous Homogeneous
51816455PLM_17					Teased, Dissolved
06-20-RF-17	Blown-in insulation - white	None Detected	98% Mineral Wool	2% Other	White Fibrous Homogeneous
51816455PLM_18					Teased, Dissolved
06-20-RF-18	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_19					Dissolved
06-20-RF-19	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_20					Dissolved
06-20-RF-20	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_21					Dissolved
06-20-RF-21	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_22					Dissolved
06-20-RF-22	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_23					Dissolved
06-20-RF-23	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_24					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%.

Philip Szabo (54)

Analyst

Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

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 - River House

Lab Order ID: 51816455
Analysis ID: 51816455_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-20-RF-24	Plaster rough coat - grey	None Detected	3% Hair 2% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_25					Dissolved
06-20-RF-25	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_26					Dissolved
06-20-RF-26	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_27					Dissolved
06-20-RF-27	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_28					Dissolved
06-20-RF-28	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_29					Dissolved
06-20-RF-29	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_30					Dissolved
06-20-RF-30	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_31					Dissolved
06-20-RF-31	Plaster smooth coat - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_32					Dissolved

Philip Szabo (54)

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 - River House

Lab Order ID: 51816455
Analysis ID: 51816455_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-20-RF-32	Sheetrock - Type 1	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_33					Dissolved
06-20-RF-33	Sheetrock - Type 1	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_34					Dissolved
06-20-RF-34	Sheetrock - Type 2	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_35					Dissolved
06-20-RF-35	Sheetrock - Type 2	None Detected	5% Cellulose	95% Other	Gray Non Fibrous Homogeneous
51816455PLM_36					Dissolved
06-20-RF-36	Joint compound	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_37					Dissolved
06-20-RF-37	Joint compound	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_38					Dissolved
06-20-RF-38	Window glazing compound dbl hung wood sash - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous
51816455PLM_39					Ashed, Dissolved
06-20-RF-39	Window glazing compound dbl hung wood sash - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous
51816455PLM_40					Ashed, Dissolved

Philip Szabo (54)

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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Lab Order ID: 51816455
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Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
06-20-RF-40	Asphalt and felt paper under clapboard	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816455PLM_41	*felt paper only*				Ashed, Dissolved
06-20-RF-41	Asphalt and felt paper under clapboard	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816455PLM_42	*felt paper only*				Ashed, Dissolved
06-20-RF-42	Window glazing compound basement wd sash - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous
51816455PLM_43					Ashed, Dissolved
06-20-RF-43	Window glazing compound basement wd sash - tan	None Detected		100% Other	Tan Non Fibrous Homogeneous
51816455PLM_44					Ashed, Dissolved
06-20-RF-44	Top layer asphalt shingle - black	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Homogeneous
51816455PLM_45					Dissolved
06-20-RF-45	Top layer asphalt shingle - black	None Detected	10% Fiber Glass	90% Other	Black Non Fibrous Homogeneous
51816455PLM_46					Dissolved
06-20-RF-46	Felts below asphalt shingle - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816455PLM_47					Ashed, Dissolved
06-20-RF-47	Felts below asphalt shingle - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816455PLM_48					Ashed, Dissolved

Philip Szabo (54)

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

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

Attn: Tammy Poitras

Project: Town of E Haddam - River House

Lab Order ID: 51816455
Analysis ID: 51816455_PLM
Date Received: 6/30/2018
Date Reported: 7/2/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
06-20-RF-48	Felts below wood roof shakes - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816455PLM_49					Ashed, Dissolved
06-20-RF-49	Felts below wood roof shakes - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous
51816455PLM_50					Ashed, Dissolved
06-20-RF-50	Caulk at single hung wood sash	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_51					Ashed, Dissolved
06-20-RF-51	Caulk at single hung wood sash	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_52					Ashed, Dissolved
06-20-RF-52	caulk at storm screen - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_53					Ashed, Dissolved
06-20-RF-53	caulk at storm screen - white	None Detected		100% Other	White Non Fibrous Homogeneous
51816455PLM_54					Ashed, Dissolved

Philip Szabo (54)

Analyst

Approved Signatory

54 samples

5181604S5

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 - River House
Client Notes:	**Stop on 1st Positve**
P.O. #:	18-144.10T3
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
<<			
06-20-RF-01	B-01	Paper duct insulation - white	[Enter data of your choosing here]
06-20-RF-02	B-01	Paper duct insulation - white	[Enter data of your choosing here]
06-20-RF-03	B-01	Paper duct insulation - white	[Enter data of your choosing here]
06-20-RF-04	1-04	Floor tile mastic - brown	[Enter data of your choosing here]
06-20-RF-05	1-04	Floor tile mastic - brown	[Enter data of your choosing here]
06-20-RF-06	1-04	12" x 12" Floor tile - green	[Enter data of your choosing here]
06-20-RF-07	1-04	12" x 12" Floor tile - green	[Enter data of your choosing here]
06-20-RF-07A	1-04	Condensate coating on sink - black	[Enter data of your choosing here]
06-20-RF-08	1-04	Condensate coating on sink - black	[Enter data of your choosing here]
06-20-RF-09	1-04	Formica countertop - white	[Enter data of your choosing here]
06-20-RF-10	1-04	Formica countertop - white	[Enter data of your choosing here]
06-20-RF-11	1-05	Particle board flooring - brown	[Enter data of your choosing here]
06-20-RF-12	1-05	Particle board flooring - brown	[Enter data of your choosing here]
06-20-RF-13	ST-03	Textured ceiling paint	[Enter data of your choosing here]
06-20-RF-14	ST-03	Textured ceiling paint	[Enter data of your choosing here]
06-20-RF-15	ST-03	Textured ceiling paint	[Enter data of your choosing here]
06-20-RF-16	Attic	Blown-in insulation - white	[Enter data of your choosing here]
06-20-RF-17	Attic	Blown-in insulation - white	[Enter data of your choosing here]

Relinquished By

Accepted ☑

Rejected ☐

Received By 6/30 10:30

5181/0455

06-20-RF-18	0-01	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-19	0-02	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-20	1-07	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-21	1-08	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-22	ST-03	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-23	2-11	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-24	2-13	Plaster rough coat - grey	[Enter data of your choosing here]
06-20-RF-25	0-01	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-26	0-02	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-27	1-07	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-28	1-08	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-29	ST-03	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-30	2-11	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-31	2-13	Plaster smooth coat - white	[Enter data of your choosing here]
06-20-RF-32	B-01	Sheetrock - Type 1	[Enter data of your choosing here]
06-20-RF-33	1-07	Sheetrock - Type 1	[Enter data of your choosing here]
06-20-RF-34	1-04	Sheetrock - Type 2	[Enter data of your choosing here]
06-20-RF-35	1-05	Sheetrock - Type 2	[Enter data of your choosing here]
06-20-RF-36	1-04	Joint compound	[Enter data of your choosing here]
06-20-RF-37	1-05	Joint compound	[Enter data of your choosing here]
06-20-RF-38	Façade A	Window glazing compound dbl hung wood sash - tan	[Enter data of your choosing here]
06-20-RF-39	Façade A	Window glazing compound'dbl hung wood sash - tan	[Enter data of your choosing here]
06-20-RF-40	Façade A	Asphalt and felt paper under clapboard	[Enter data of your choosing here]
06-20-RF-41	Façade A	Asphalt and felt paper under clapboard	[Enter data of your choosing here]
06-20-RF-42	Façade B	Window glazing compound basement wd sash - tan	[Enter data of your choosing here]
06-20-RF-43	Façade D	Window glazing compound basement wd sash - tan	[Enter data of your choosing here]
06-20-RF-44	Roof 1	Top layer asphalt shingle - black	[Enter data of your choosing here]
06-20-RF-45	Roof 1	Top layer asphalt shingle - black	[Enter data of your choosing here]
06-20-RF-46	Roof 1	Felts below asphalt shingle - black	[Enter data of your choosing here]
06-20-RF-47	Roof 1	Felts below asphalt shingle - black	[Enter data of your choosing here]
06-20-RF-48	Roof 1	Felts below wood roof shakes - black	[Enter data of your choosing here]
06-20-RF-49	Roof 1	Felts below wood roof shakes - black	[Enter data of your choosing here]
06-20-RF-50	Façade D	Caulk at single hung wood sash	[Enter data of your choosing here]
06-20-RF-51	Façade D	Caulk at single hung wood sash	[Enter data of your choosing here]
06-20-RF-52	Façade D	caulk at storm screen - white	[Enter data of your choosing here]
06-20-RF-53	Façade D	caulk at storm screen - white	[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#03611 - 06/20/18 09:32

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

PERFORMED AT: River House
1 Main Street
East Haddam, CT

INSPECTION DATE: 06/20/18

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 03611

ACTION LEVEL: 1.0 mg/cm^2

OPERATOR LICENSE: 002282

Lead Based-Paint Screen

SIGNED: Alexis St. Hilaire Date: 6/20/18

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:	06/20/18	River House
Report Date:	6/20/2018	1 Main Street
Abatement Level:	1.0	East Haddam, CT
Report No.	S#03611 - 06/20/18 09:32	
Total Readings:	146 Actionable: 55	
Job Started:	06/20/18 09:32	
Job Finished:	06/20/18 11:14	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Porch 1A									
109	A	Siding	Rgt		D	Wood	white	>9.9	QM
118	A	Soffit	Rgt		D	Wood	white	9.7	QM
119	A	Fascia	Rgt		D	Wood	white	4.1	QM
115	A	Floor	Rgt		D	Wood	blue	1.0	QM
116	A	Ceiling	Rgt		D	Wood	white	>9.9	QM
117	A	Ceiling	Rgt	Beam	D	Wood	white	>9.9	QM
110	A	Window	Rgt	Casing	D	Wood	white	>9.9	QM
111	A	Window	Rgt	Sill	D	Wood	white	>9.9	QM
120	A	Door	Rgt	Casing	D	Wood	white	>9.9	QM
114	A	Railing	Rgt	Balusters	D	Wood	white	>9.9	QM
Exterior Room 002 Facade B									
129	B	base win	Lft	Sash	D	Wood	blue	2.9	QM
127	B	drain boot	Rgt		I	Metal	white	8.5	QM
Exterior Room 003 Facade C									
131	C	Window	Rgt	Casing	D	Wood	white	>9.9	QM
132	C	Window	Rgt	Sill	D	Wood	white	>9.9	QM
Exterior Room 004 Facade D									
133	D	Siding	Lft		D	Wood	white	1.6	QM
135	D	Ceiling	Rgt		D	Wood	white	>9.9	QM
136	D	Ceiling	Rgt	Beam	D	Wood	white	>9.9	QM
Interior Room 001 Basement									
007	-	Ceiling	Rgt	Beam	D	Wood	white	1.0	QM
004	-	Column	Ctr		D	Steel	white	>9.9	QM
009	B	Window	Rgt	Sash	D	Wood	white	2.3	QM
006	C	Wall	Rgt		D	Wood	white	1.6	QM
012	D	Door	Rgt	door	D	Wood	green	>9.9	QM
013	D	Door	Rgt	Casing	D	Wood	blue	6.2	QM
014	D	Door	Rgt	Jamb	D	Wood	green	2.4	QM
015	D	Door	Rgt	Stop	D	Wood	green	2.5	QM
010	D	Stairs	Lft	Treads	D	Wood	blue	8.1	QM
011	D	Stairs	Lft	Risers	D	Wood	blue	8.5	QM
Interior Room 002 base storag									
016	A	Door	Ctr	door	D	Wood	white	1.7	QM
017	A	Door	Ctr	Jamb	D	Wood	white	1.9	QM
018	A	Door	Ctr	Stop	D	Wood	white	6.2	QM

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
019	D	Window	Ctr	Sash	D	Wood	white	3.6	QM
Interior Room 003 Stairs									
101	-	Floor	Lft		D	Wood	blue	3.5	QM
022	-	Floor	Ctr		D	Wood	blue	6.9	QM
025	-	Ceiling	Ctr		D	Plaster	white	6.4	QM
104	-	Stairs	Lft	Stringers	D	Wood	blue	5.6	QM
102	-	Stairs	Lft	Treads	D	Wood	blue	9.2	QM
103	-	Stairs	Lft	Risers	D	Wood	blue	9.1	QM
024	-	Stairs	Ctr	Risers	D	Wood	blue	3.1	QM
021	A	Wall	L Ctr		D	Wood	white	3.3	QM
020	A	Wall	U Ctr		D	Plaster	green	7.0	QM
026	B	Door	Lft	Casing	D	Wood	stain	3.4	QM
080	D	Window	Ctr	ext. jamb	D	Wood	white	9.0	QM
081	D	Window	Ctr	ext. stop	D	Wood	white	>9.9	QM
077	D	Window	Ctr	Sash	D	Wood	stain	>9.9	QM
Interior Room 004 Kitchen									
035	-	Ceiling	Ctr		I	Plaster	white	>9.9	QM
030	A	Wall	Ctr		I	Plaster	white	>9.9	QM
Interior Room 005 Womens Lav									
041	C	Window	Ctr	Sash	D	Wood	white	6.9	QM
Interior Room 007 Dining Rm									
054	C	Window	Ctr	ext. jamb	D	Wood	white	>9.9	QM
055	C	Window	Ctr	ext. stop	D	Wood	white	>9.9	QM
051	C	Window	Ctr	Sash	D	Wood	white	2.7	QM
053	C	Window	Ctr	Part. bead	D	Wood	white	>9.9	QM
Interior Room 008 Living Rm									
066	A	Window	Rgt	Sash	I	Wood	white	7.7	QM
Interior Room 010 L office									
087	A	Window	Ctr	Sash	D	Wood	stain	1.4	QM
Interior Room 011 Bathroom									
096	-	Ceiling	Lft		I	Plaster	white	8.6	QM
094	B	Wall	Lft		I	Plaster	N/A	7.3	QM
	wallpaper								

---- End of Readings ----

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

Inspection Date:	06/20/18	River House
Report Date:	6/20/2018	1 Main Street
Abatement Level:	1.0	East Haddam, CT
Report No.	S#03611 - 06/20/18 09:32	
Total Readings:	146	
Job Started:	06/20/18 09:32	
Job Finished:	06/20/18 11:14	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Porch 1A									
109	A	Siding	Rgt		D	Wood	white	>9.9	QM
118	A	Soffit	Rgt		D	Wood	white	9.7	QM
119	A	Fascia	Rgt		D	Wood	white	4.1	QM
115	A	Floor	Rgt		D	Wood	blue	1.0	QM
116	A	Ceiling	Rgt		D	Wood	white	>9.9	QM
117	A	Ceiling	Rgt	Beam	D	Wood	white	>9.9	QM
110	A	Window	Rgt	Casing	D	Wood	white	>9.9	QM
111	A	Window	Rgt	Sill	D	Wood	white	>9.9	QM
120	A	Door	Rgt	Casing	D	Wood	white	>9.9	QM
121	A	Door	Rgt	Stop	D	Wood	white	-0.1	QM
122	A	Door	Rgt	door	D	Wood	white	0.0	QM
123	A	Door	Rgt	Kickplate	D	Wood	white	-0.1	QM
124	A	Stairs	Rgt	Treads	D	Wood	blue	0.1	QM
125	A	Stairs	Rgt	Risers	D	Wood	white	-0.3	QM
114	A	Railing	Rgt	Balusters	D	Wood	white	>9.9	QM
113	A	Railing	Rgt	Railing	D	Wood	white	-0.2	QM
112	A	Column	Rgt		D	Wood	white	-0.1	QM
Exterior Room 002 Facade B									
128	B	base win	Lft	Casing	D	Wood	blue	0.2	QM
129	B	base win	Lft	Sash	D	Wood	blue	2.9	QM
130	B	base win	Lft	Sill	D	Wood	blue	0.6	QM
126	B	Lattice	Rgt		I	Wood	white	-0.1	QM
127	B	drain boot	Rgt		I	Metal	white	8.5	QM
Exterior Room 003 Facade C									
131	C	Window	Rgt	Casing	D	Wood	white	>9.9	QM
132	C	Window	Rgt	Sill	D	Wood	white	>9.9	QM
Exterior Room 004 Facade D									
133	D	Siding	Lft		D	Wood	white	1.6	QM
134	D	Attic Hatch	Lft	Door	D	Wood	white	-0.2	QM
135	D	Ceiling	Rgt		D	Wood	white	>9.9	QM
136	D	Ceiling	Rgt	Beam	D	Wood	white	>9.9	QM
142	D	Window	Rgt	Casing	I	Wood	white	-0.2	QM
143	D	Window	Rgt	Sash	I	Wood	white	-0.2	QM
139	D	Door	Rgt	door	I	Wood	white	0.0	QM
140	D	Door	Rgt	Door Casing	I	Wood	white	-0.2	QM
141	D	Door	Rgt	Threshold	D	Wood	blue	0.1	QM
138	D	Railing	Rgt	Balusters	D	Metal	black	0.2	QM
137	D	Railing	Rgt	Railing	D	Metal	black	0.1	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 001 Basement									
007	-	Ceiling	Rgt	Beam	D	Wood	white	1.0	QM
004	-	Column	Ctr		D	Steel	white	>9.9	QM
008	B	Wall	Rgt		D	Concrete	white	0.0	QM
009	B	Window	Rgt	Sash	D	Wood	white	2.3	QM
005	C	Chimney	Ctr		D	Brick	white	0.1	QM
006	C	Wall	Rgt		D	Wood	white	1.6	QM
012	D	Door	Rgt	door	D	Wood	green	>9.9	QM
013	D	Door	Rgt	Casing	D	Wood	blue	6.2	QM
014	D	Door	Rgt	Jamb	D	Wood	green	2.4	QM
015	D	Door	Rgt	Stop	D	Wood	green	2.5	QM
010	D	Stairs	Lft	Treads	D	Wood	blue	8.1	QM
011	D	Stairs	Lft	Risers	D	Wood	blue	8.5	QM
Interior Room 002 base storag									
016	A	Door	Ctr	door	D	Wood	white	1.7	QM
017	A	Door	Ctr	Jamb	D	Wood	white	1.9	QM
018	A	Door	Ctr	Stop	D	Wood	white	6.2	QM
019	D	Window	Ctr	Sash	D	Wood	white	3.6	QM
Interior Room 003 Stairs									
101	-	Floor	Lft		D	Wood	blue	3.5	QM
022	-	Floor	Ctr		D	Wood	blue	6.9	QM
025	-	Ceiling	Ctr		D	Plaster	white	6.4	QM
083	-	Ceiling	Ctr		I	Plaster	white	0.4	QM
104	-	Stairs	Lft	Stringers	D	Wood	blue	5.6	QM
102	-	Stairs	Lft	Treads	D	Wood	blue	9.2	QM
103	-	Stairs	Lft	Risers	D	Wood	blue	9.1	QM
023	-	Stairs	Ctr	Treads	D	Wood	blue	0.1	QM
024	-	Stairs	Ctr	Risers	D	Wood	blue	3.1	QM
075	-	Stairs	Rgt	Stringers	D	Wood	stain	0.1	QM
073	-	Stairs	Rgt	Treads	D	Wood	stain	-0.2	QM
074	-	Stairs	Rgt	Risers	D	Wood	stain	-0.2	QM
070	-	Stairs	Rgt	Newel post	D	Wood	stain	-0.2	QM
072	-	Railing	Rgt	Balusters	D	Wood	stain	0.1	QM
071	-	Railing	Rgt	Railing	D	Wood	stain	-0.2	QM
021	A	Wall	L Ctr		D	Wood	white	3.3	QM
105	A	Wall	Rgt		D	Plaster	white	-0.1	QM
020	A	Wall	U Ctr		D	Plaster	green	7.0	QM
026	B	Door	Lft	Casing	D	Wood	stain	3.4	QM
027	B	Door	Lft	Jamb	D	Wood	white	-0.1	QM
028	B	Door	Lft	Stop	D	Wood	stain	0.0	QM
029	B	Door	Lft	door	D	Wood	stain	-0.3	QM
076	D	Window	Ctr	Casing	D	Wood	stain	-0.2	QM
078	D	Window	Ctr	Jamb	D	Wood	stain	-0.2	QM
080	D	Window	Ctr	ext. jamb	D	Wood	white	9.0	QM
081	D	Window	Ctr	ext. stop	D	Wood	white	>9.9	QM
077	D	Window	Ctr	Sash	D	Wood	stain	>9.9	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
082	D	Window	Ctr	Sill	D	Wood	stain	-0.2	QM
079	D	Window	Ctr	Part. bead	D	Wood	white	-0.2	QM
Interior Room 004 Kitchen									
035	-	Ceiling	Ctr		I	Plaster	white	>9.9	QM
030	A	Wall	Ctr		I	Plaster	white	>9.9	QM
034	D	Ceiling	Ctr	Beam	I	Wood	stain	-0.2	QM
031	D	Window	Ctr	Casing	I	Wood	stain	-0.3	QM
032	D	Window	Ctr	Stop	I	Wood	stain	0.3	QM
033	D	Window	Ctr	Sill	I	Wood	stain	-0.2	QM
Interior Room 005 Womens Lav									
043	-	Ceiling	Rgt		D	Plaster	white	0.0	QM
036	A	Wall wallpaper	Lft		D	Plaster	N/A	-0.1	QM
039	C	Baseboard	Ctr		D	Wood	white	-0.1	QM
040	C	Window	Ctr	Casing	D	Wood	white	0.0	QM
041	C	Window	Ctr	Sash	D	Wood	white	6.9	QM
042	C	Column	Rgt		D	Wood	white	0.1	QM
037	D	Door	Ctr	Casing	D	Wood	white	0.0	QM
038	D	Door	Ctr	door	D	Wood	stain	0.0	QM
044	D	Door	Rgt	Threshold	D	Wood	stain	-0.3	QM
Interior Room 006 Men's Lav									
047	-	Ceiling	Ctr		I	Plaster	white	0.2	QM
045	D	Wall wallpaper	Rgt		I	Plaster	N/A	-0.4	QM
046	D	Baseboard	Rgt		D	Wood	white	-0.1	QM
Interior Room 007 Dining Rm									
050	-	Floor	Rgt		D	Wood	stain	0.1	QM
048	A	Wall	Rgt		I	Plaster	white	-0.1	QM
049	A	Baseboard	Rgt		D	Wood	white	0.0	QM
059	A	Door	Ctr	Casing	I	Wood	white	0.0	QM
060	A	Door	Ctr	door	I	Wood	stain	-0.2	QM
061	A	Door	Ctr	Jamb	D	Wood	stain	0.1	QM
052	C	Window	Ctr	Jamb	D	Wood	stain	-0.1	QM
054	C	Window	Ctr	ext. jamb	D	Wood	white	>9.9	QM
055	C	Window	Ctr	ext. stop	D	Wood	white	>9.9	QM
051	C	Window	Ctr	Sash	D	Wood	white	2.7	QM
056	C	Window	Ctr	Sill	D	Wood	white	0.0	QM
053	C	Window	Ctr	Part. bead	D	Wood	white	>9.9	QM
057	D	Cabinet	Ctr	Casing	D	Wood	white	0.1	QM
058	D	Cabinet	Ctr	Door	D	Wood	white	-0.2	QM
Interior Room 008 Living Rm									
065	-	Floor	Rgt		I	Wood	stain	-0.2	QM
062	A	Ceiling	Ctr		I	Plaster	white	-0.1	QM
066	A	Window	Rgt	Sash	I	Wood	white	7.7	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
063	B	Wall	Rgt		I	Plaster	white	0.0	QM
064	B	Baseboard	Rgt		I	Wood	white	0.1	QM
Interior Room 009 Front Entry									
068	A	Door	Rgt	Casing	I	Wood	white	-0.2	QM
069	A	Door	Rgt	door	D	Wood	stain	-0.2	QM
067	D	Wall	Lft		I	Plaster	white	-0.3	QM
Interior Room 010 L office									
086	-	Floor	Rgt		D	Wood	stain	-0.2	QM
093	-	Ceiling	Lft		D	Plaster	white	-0.1	QM
084	A	Wall	Rgt		D	Plaster	blue	-0.1	QM
087	A	Window	Ctr	Sash	D	Wood	stain	1.4	QM
085	B	Baseboard	Rgt		I	Wood	stain	0.0	QM
088	C	Door	Lft	Casing	D	Wood	stain	-0.2	QM
089	C	Door	Lft	Jamb	D	Wood	stain	-0.1	QM
090	C	Door	Lft	Stop	D	Wood	white	0.1	QM
091	C	Door	Lft	Threshold	D	Wood	blue	-0.4	QM
092	C	Door	Lft	door	D	Wood	white	-0.1	QM
Interior Room 011 Bathroom									
096	-	Ceiling	Lft		I	Plaster	white	8.6	QM
094	B	Wall	Lft		I	Plaster	N/A	7.3	QM
	wallpaper								
095	B	Baseboard	Lft		I	Wood	white	0.1	QM
097	D	Cabinet	Lft	Door	I	Wood	white	0.2	QM
Interior Room 012 R office									
099	-	Floor	Lft		I	Wood	stain	-0.2	QM
100	-	Ceiling	Lft		I	Plaster	white	0.0	QM
098	C	Wall	Lft		I	Plaster	blue	0.0	QM
Interior Room 013 Attic									
106	-	Floor	Rgt		D	Wood	stain	-0.2	QM
107	-	Ceiling	Rgt	Beam	I	Wood	stain	-0.1	QM
108	-	Ceiling	Rgt	Ceiling	I	Wood	stain	-0.2	QM
Calibration Readings									
001								0.9	TC
002								0.8	TC
003								0.9	TC
144								0.9	TC
145								0.9	TC
146								0.9	TC

---- End of Readings ----

APPENDIX 4

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS ABATEMENT AND CONSULTING COST ESTIMATES
FORMER RIVER HOUSE
1 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
PAPER DUCT INSULATION IN WALLS/CEILINGS	90	$ 65.00 SF	$ 5,850.00
PAPER DUCT INSULATION DEBRIS ON FLOOR	3	$ 150.00 SF	$ 450.00
SINK UNDERCOATING	1	$ 100.00 EA	$ 100.00
SUBTOTAL			$ 6,400.00
ASBESTOS ABATEMENT CONTINGENCY			$ 640.00
ASBESTOS TOTAL			**$ 7,040.00**

LEAD BASED PAINT COST ESTIMATE

MATERIAL: RENOVATION/DEMOLITION SCOPE AND TCLP TESTING REQUIRED PRIOR TO DEVELOPING FINAL LEAD ABATEMENT SCOPE OF WORK

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD BASED PAINT ALLOWANCE	1	$ 12,000.00 SUM	$ 12,000.00
SUBTOTAL			$ 12,000.00
LEAD DEMOLITION CONTINGENCY			$ 1,200.00
LEAD DEMOLITION TOTAL			**$ 13,200.00**

UNIVERSAL WASTE ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LIGHT BALLAST DISPOSAL	4	$ 5.00 EACH	$ 20.00
LIGHT TUBES DISPOSAL	290	$ 2.00 LF	$ 580.00
LEAD ACID BATTERIES DISPOSAL	8	$ 5.00 EACH	$ 40.00
THERMOSTAT DISPOSAL	2	$ 5.00 EACH	$ 10.00
LABOR	1	$ 500.00 DAY	$ 500.00
SUBTOTAL			$ 1,150.00
UNIVERSAL WASTE ABATEMENT CONTINGENCY			$ 287.50
UNIVERSAL WASTE TOTAL			**$ 1,437.50**

CHLOROFLUOROCARBONS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
AC UNITS	3	$ 100.00 EACH	$ 300.00
LABOR	1	$ 500.00 EACH	$ 500.00
SUBTOTAL			$ 800.00
CHLOROFLUOROCARBONS ABATEMENT CONTINGENCY			$ 80.00
CHLOROFLUOROCARBONS TOTAL			**$ 880.00**

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL	**$ 22,557.50**

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	4	$585.00 DAY	$ 2,340.00
PCM AIR SAMPLE ANALYSIS	50	$8.00 EACH	$ 400.00
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			$ 9,080.00
CONSULTING CONTINGENCY			$ 908.00
CONSULTING TOTAL			**$ 9,988.00**

GRAND TOTAL	**$ 32,545.50**

***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

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