



Consulting
Engineers and
Scientists

April 1, 2016
Project 1403900-31-1000

Peter Folino
Eagle Environmental
8 South Main Street, Suite 3
Terryville, CT, 06786

Re: National Environmental Policy Act (NEPA) Statutory Checklist for 87 Atlantic Avenue, Groton, CT

Dear Mr. Folino,

GEI Consultants, Inc. (GEI), at the request of Eagle Environmental Inc. (Eagle), has completed National Environmental Policy Act (NEPA) requirements associated with the rehabilitation of the above-listed property under the HUD-DR Program. GEI conducted a site-visit, reviewed information specific to the proposed, funded rehabilitation activities associated with the property, and completed a NEPA Statutory Checklist. Based on the information gathered, it appears that this project cannot convert to Exempt because one or more statutes/authorities requires consultation or mitigation. Because the property is within a floodzone and located within the designated coastal zone, CTDEEP program-wide General Permit and local zoning review are required for the project. Complete consultation and lead-based paint mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per ss58.70 and 58.71 before drawing down funds. The completed NEPA Checklist, photos, environmental database report, and supporting maps and documents are attached.

If you have any questions, please feel free to contact me at 860.368.5340.

Sincerely,

GEI CONSULTANTS, INC.

A handwritten signature in blue ink that reads "Barry Giroux".

Barry Giroux, P.E., LEP
Senior Consultant

A handwritten signature in blue ink that reads "Kimberly Bradley".

Kimberly Bradley
Project Manager/Senior Ecologist

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STATUTORY CHECKLIST [§58.35(a) activities]

for Categorical Exclusions and Environmental Assessments

Note: Review of the items on this checklist is required for both Categorical Exclusions under Sec. 58.35(a) and projects requiring an Environmental Assessment under Sec. 58.36. If no compliance with any of the items is required, a Categorical Exclusion [58.35(a)] may become "exempt" under the provisions of Sec. 58.34 (a) (12). In such cases attach the completed Statutory Checklist to a written determination of the exemption. Projects requiring an Environmental Assessment under Sec. 58.36 cannot be determined to be exempt even if no compliance with Statutory Checklist items is found. Three items listed at Sec. 58.6 are applicable to all projects, including those determined to be exempt.

**Project Name and Identification/Location: Owner-occupied Rehabilitation and Rebuilding Program
Application #2184 87 Atlantic Avenue, Groton, CT**

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	☐	☒	☒	☐	☐	☐	The State Historic Preservation Office (SHPO) has reviewed the proposed rehabilitation plan submitted by Capital Studio Architects (dated 11/20/2014). SHPO states that the surrounding neighborhood is not cohesive enough to develop a statement of significance that would support its eligibility for listing on the Nation Register of Historic Places as a historic district. SHPO, therefore, determined no historic properties would be affected by the proposed rehabilitation (Attachment A – SHPO Letter 3/28/2016).
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	☐	☐	☒	☐	☐	☐	Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) for the area shows the project site is located within a special flood hazard area, Zone AE, "1% annual flood chance." New London County, CT- Map #09011C0509J. (Figure 3). Connecticut Department of Energy and Environmental Protection (CTDEEP) Program-wide Permit Pending. Appendix B: Professional Certification Form for General Permit Application has been completed (dated 8/11/2015; Attachment B).
3. Wetland Protection [58.5 (b)]	☒	☐	☐	☐	☐	☐	The project site is not located within a wetland according to US Fish and Wildlife Service (USFWS) National Wetlands Inventory map (NWI;2012, Figure 4). CTDEEP Tidal Wetlands Mapping, as defined in C.G.S. Section 22a-29 and Section 22a-93(7)(e), does not identify tidal wetlands on the property (Figure 5; CTDEEP 1999).

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	☐	☐	☒	☐	☐	☐	The site is located within the Coastal Boundary and rear portions of the property may be within the Coastal Jurisdiction Line contour/elevation of 2.0 ft. for the City of Groton (CTDEEP 2012; Figure 5). Review by local Planning & Zoning is required (activities must be consistent with Coastal Management Act C.G.S Section 22a-100(b)). Activities water ward of Coastal Jurisdiction Line require authorization from CTDEEP OLISP Permitting section as defined in C.G.S. Section 22a-359(c); review possible. No impacts to coastal resources are anticipated.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	☒	☐	☐	☐	☐	☐	Proposed rehabilitation and elevation includes removal and reconnection of onsite water and sewer lines. No impacts to water quality are anticipated. CTDEEP Bureau of Water Protection and Land Reuse map titled "Connecticut Aquifer Projection Areas" dated December 2013 does not identify aquifer protection areas in the City of Groton, CT (Figure 6). The project site is not located in an EPA Sole Source Aquifer (http://www.epa.gov/region1/eco/drinkwater/pc_solesource_aquifer.html).
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	☒	☐	☐	☐	☐	☐	CTDEEP State and Federal Listed Species and Significant Natural Communities Map for New London County indicates the presence of listed species or significant natural communities within the vicinity of the site (CTDEEP NDDB 2014; Figure 7). However, program-specific parameters provide that if no sandy beaches are present onsite, no further NDDB review is required. Project site is a shoreline property with a bulkhead/seawall but with no sandy beach present (see Photo Log). US Fish and Wildlife Service Information, Planning and Conservation System (iPaC) indicates the potential presence of the following endangered species or critical habitats on the project site: Red knot (<i>Calidris canutus rufa</i>), Roseate tern (<i>Sterna dougallii dougallii</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>) (Attachment C). Of these, only roseate tern are not expected to occur in the City of Groton (Attachment D). Project site is a shoreline property with a bulkhead/seawall, and no exposed beach habitat suitable for red knot, nor caves and forests suitable for bats. Therefore, no endangered species are expected to utilize the site (Attachment E).
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	☒	☐	☐	☐	☐	☐	Eightmile River is the only designated wild & scenic river within program area located in Lyme, Salem and East Haddam, CT (rivers.gov; 2012; Figure 8). Project site is not within one mile of the designated area.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	☒	☐	☐	☐	☐	☐	Residential rehabilitation; will result in no quantifiable increase in air pollution.
9. Farmland Protection [58.5(h)]	☒	☐	☐	☐	☐	☐	NRCS mapping indicates the site is primarily underlain by Beaches-Udipsamments complex coastal soils (Figure 9). Therefore, the proposed project will not involve the conversion of any prime, unique, statewide, or locally important farmland.
Manmade Hazards: 10 A. Thermal Explosive [58.5(i)]	☒	☐	☐	☐	☐	☐	The site is in a residential neighborhood and proposed project will not result in any increase to density.
10 B. Noise [58.5(j)]	☒	☐	☐	☐	☐	☐	Some short term construction-related noise is expected. No impact on long term contributions to ambient noise is expected.
10 C. Airport Clear Zones [58.5 (l)]	☒	☐	☐	☐	☐	☐	The site is outside of any airport clear zone (Figure 10).
10 D. Toxic Sites [58.5 (l)(2)(i)]	☒	☐	☐	☐	☐	☐	Site is not listed on EPA Superfund National Priorities or CERCLA List or equivalent State list, is not located within 3,000 feet of a toxic or solid waste landfill, does not have an underground storage tank (which is not a residential fuel tank) and is not known or suspected to be contaminated by toxic chemicals or radioactive materials. Based on attached environmental database report prepared by Ecolog ERIS ltd (Attachment F), site inspection, and owner interview.
11. Environmental Justice [58.5(j)]	☒	☐	☐	☐	☐	☐	The project site is located in Groton which is listed as a Distressed Municipality based on the CTDECD 2013 List (Attachment G). However, the project site is not located within a low income community, defined as a census block with 30% of the population living below 200% of the poverty line (Attachment H). The rehabilitation work at the project site is compatible with the surrounding residential use and no adverse human health and environmental effects on minority or low income population are expected.
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	☐	☐	☒	☐	☐	☐	FEMA FIRM for the site shows the project site is located within a special flood hazard area, Zone AE, "1% annual flood chance." New London County, CT- Map #09011C0509J. (Figure 3). The assisted homeowners are required to maintain flood insurance for not less than five years from the date of the assistance. DOH to track and maintain.
12 B. Coastal Barriers [58.6(c)]	☒	☐	☐	☐	☐	☐	The project site is not located within a designated FEMA FIRM Coastal Barrier Resource Zone. New London County, CT- Map #09011C0509J (Figure 3).

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
12 C. Airport Clear Zone Notification [58.6(d)]	☒	☐	☐	☐	☐	☐	The site is outside of any airport clear zone (Figure 10). Project does not involve purchase or sale of a property as such 24 CFR 58.6(d).
13. A. Solid Waste Disposal [42 U.S.C. §3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	☒	☐	☐	☐	☐	☐	Solid waste disposal provided by the City. Proposed project will not result in an increase in density.
13 B. Fish and Wildlife [U.S.C. 661-666c]	☒	☐	☐	☐	☐	☐	Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	☐	☒	☒	☐	☐	☒	The results of Lead Paint Survey are in the Hazardous Material Inspection Report, dated 9/9/2015, prepared by Eagle Environmental Inc. submitted by Capital Studio Architects along with the Statutory Checklist). Of the thirty-one (31) readings taken, twenty-two (22) were found to contain toxic levels of lead-based paint. The Lead-based Paint Abatement plan details the work practices to be followed during construction to address lead containing materials at the project site.
13 D. Asbestos	☐	☒	☒	☐	☐	☐	The results of Asbestos-containing Material Survey are in the Hazardous Material Inspection Report, dated 9/9/2015, prepared by Eagle Environmental Inc. (submitted by Capital Studio Architects along with the Statutory Checklist). All samples tested were confirmed to be non-asbestos-containing material. No further action is required.
13 E. Radon [50.3 (f) 1]	☐	☒	☒	☐	☐	☐	Radon testing was not performed at the project site as the proposed rehabilitation includes elevation and the lowest level of the building and will not be in contact with the ground; Hazardous Material Inspection Report, dated 9/9/2015, prepared by Eagle Environmental Inc. (submitted by Capital Studio Architects along with the Statutory Checklist).
13 F. Mold	☐	☒	☒	☐	☐	☐	The procedures and results of the mold and water damage inspection are included in the Hazardous Material Inspection Report, dated 9/9/2015, prepared by Eagle Environmental Inc. (report submitted by Capital Studio Architects along with the Statutory Checklist). There was no evidence of water intrusion, staining, or damage during the time of inspection.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☐	☐	☒	☐	☐	☐	General Permit for CDBG-DR Program activities with CTDEEP in development. Appendix B: Professional Certification Form for General Permit Application has been completed (dated 8/11/2015; Attachment B).
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	☒	☐	☐	☐	☐	☐	Rehabilitation work at project site does not propose any activity water ward of the coastal jurisdiction line as defined in C.G.S. Section 22a-359(c) as activities will be limited to the footprint of the current residence.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	☒	☐	☐	☐	☐	☐	Portions of the project site may be located within the Coastal Jurisdiction Zone based upon the coastal jurisdiction contour/elevation for the City of Groton (2012). CTDEEP Tidal Wetlands Mapping, as defined in C.G.S. Section 22a-29 and Section 22a-93(7)(e), identifies the project as outside a Tidal Wetland Zone (Figure 5; CTDEEP 1999).
14 D. Local inland wetlands/watercourses [CGS 22a-42]	☒	☐	☐	☐	☐	☐	No apparent inland wetlands on or adjacent to the site based review of NWI data (Figure 4) and NRCS soils data (Figure 9) as well as field observations. Project rehabilitation work is not expected to impact wetlands/watercourses.
14 E. Various Municipal Zoning Approvals	☒	☐	☐	☐	☐	☐	No change of use or building expansion that would require zoning approvals noted.

DETERMINATION:

- ☐ This project converts to Exempt, per §58.349a(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license. Funds may be drawn down for this (now) EXEMPT project; OR
- ☒ This project cannot convert to Exempt because one or more statutes/authorities requires consultation or mitigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; OR
- ☐ The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:

Barry Giroux

4/1/16

Barry Giroux, P.E., LEP
Senior Consultant, GEI Consultants, Inc.

Date

Responsible Entity or designee Signature:

Hermia Delaire
Hermia Delaire, CDBG-DR Program Manager

5/11/2014
Date

PHOTO LOG
NEPA Statutory Checklist
87 Atlantic Ave.
Groton, CT

Photo 1: View of property from Atlantic Ave; looking S.



Photo 2: Eastern portion of property; looking N.



Photo 3: Rear and western side of property. Note two propane tanks; looking NW.



Photo 4: Rear of property looking N. Photo taken from dock.

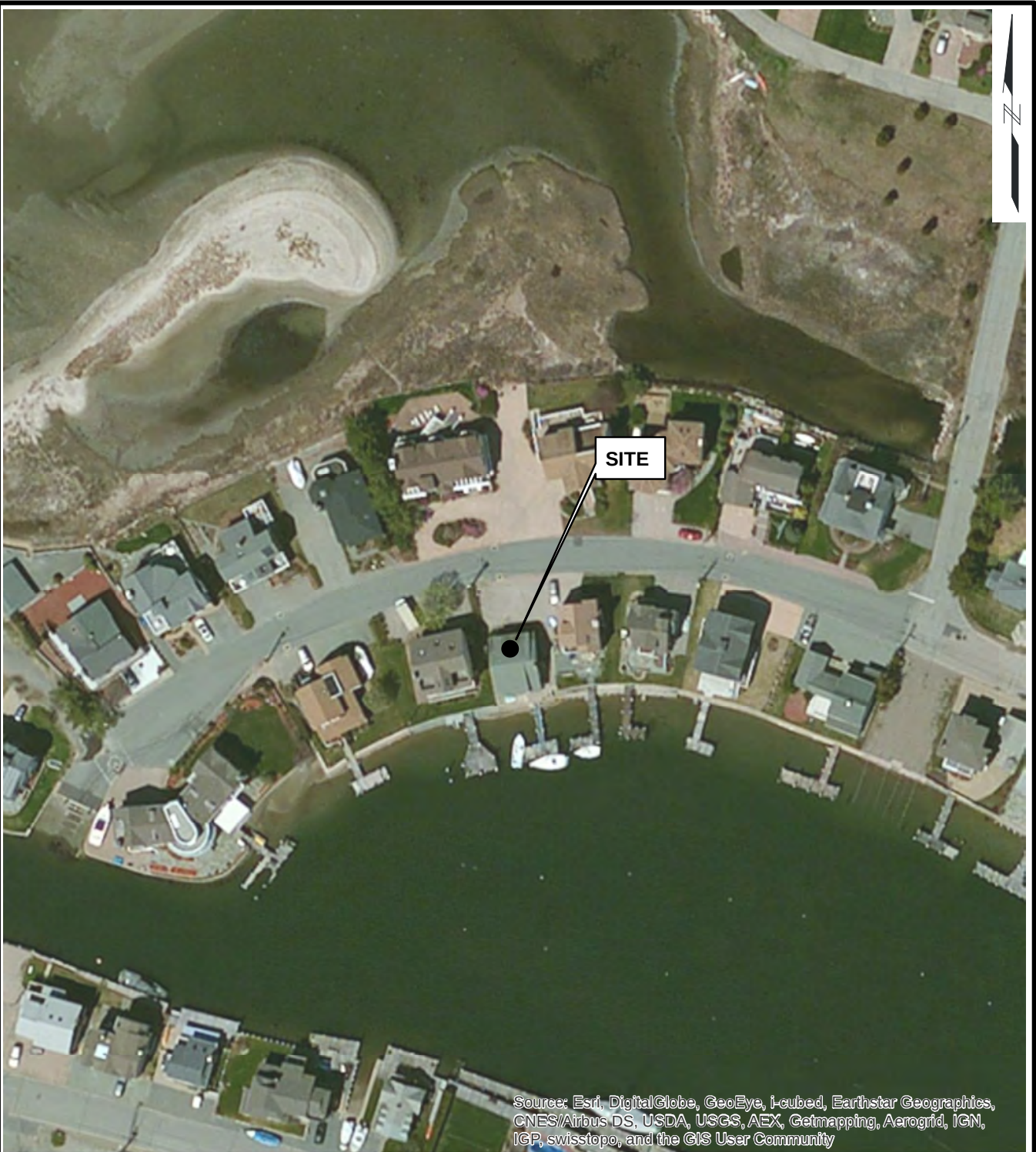


Photo 5: Seawall on site and adjacent properties; looking W.



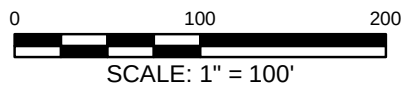
Photo 6: Eastern side of property; looking N. Note seawall on eastern side of the dock.





SOURCE:

1. 2011 ESRI WORLD IMAGERY



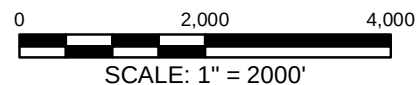
National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment 87 Atlantic Avenue Groton, Connecticut	GEI  Consultants	SITE DETAIL
Eagle Environmental, Inc. Terryville, Connecticut	Project 1403900	January 2015 Fig. 1

J:\Projects\Eagle Environmental\NEPA\87 Atlantic Ave Groton\Site Detail.mxd



SOURCE:

1. USGS TOPOGRAPHIC MAP NEW LONDON QUADRANGLE ACCESSED VIA ARCGISONLINE.COM.



National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

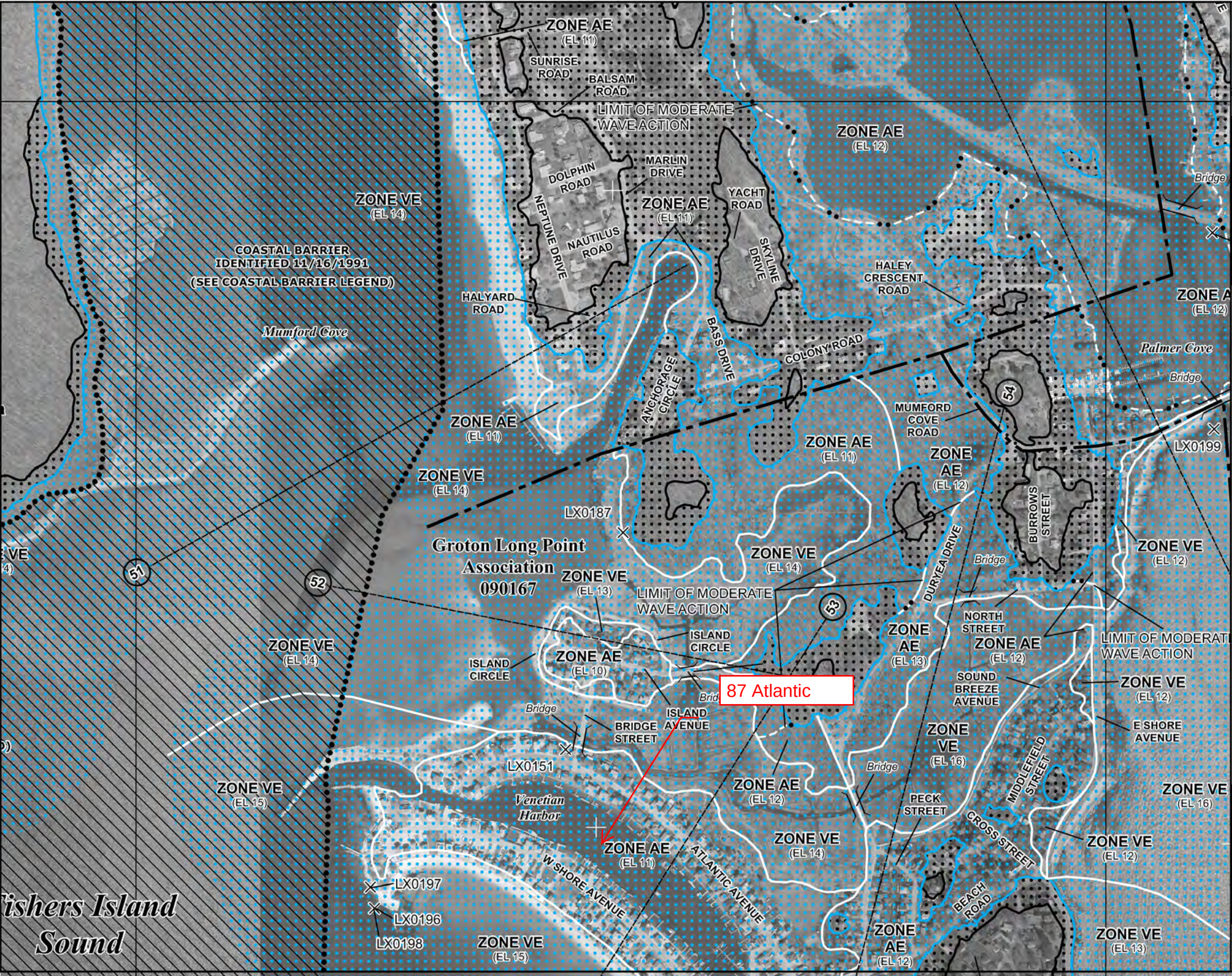


Project 1403900

USGS TOPOGRAPHIC MAP

January 2015

Fig. 2





MAP SCALE 1" = 500'

250 0 500 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0509J

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 509 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GROTON LONG POINT ASSOCIATION	090167	0509	J
GROTON, TOWN OF	090097	0509	J
NOANK FIRE DISTRICT	090129	0509	J

-NOTE-
THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1962 AND/OR SUBSEQUENT ENABLING LEGISLATION.

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09011C0509J

MAP REVISED
AUGUST 5, 2013

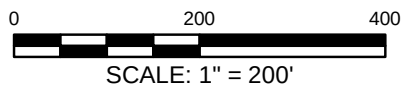
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



SOURCE:

1. 2012 US FISH AND WILDLIFE (USFWS)
NATIONAL WETLANDS INVENTORY
WWW.FWS.GOV/WETLANDS, ACCESSED JULY
2014.



LEGEND

Wetland Type

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

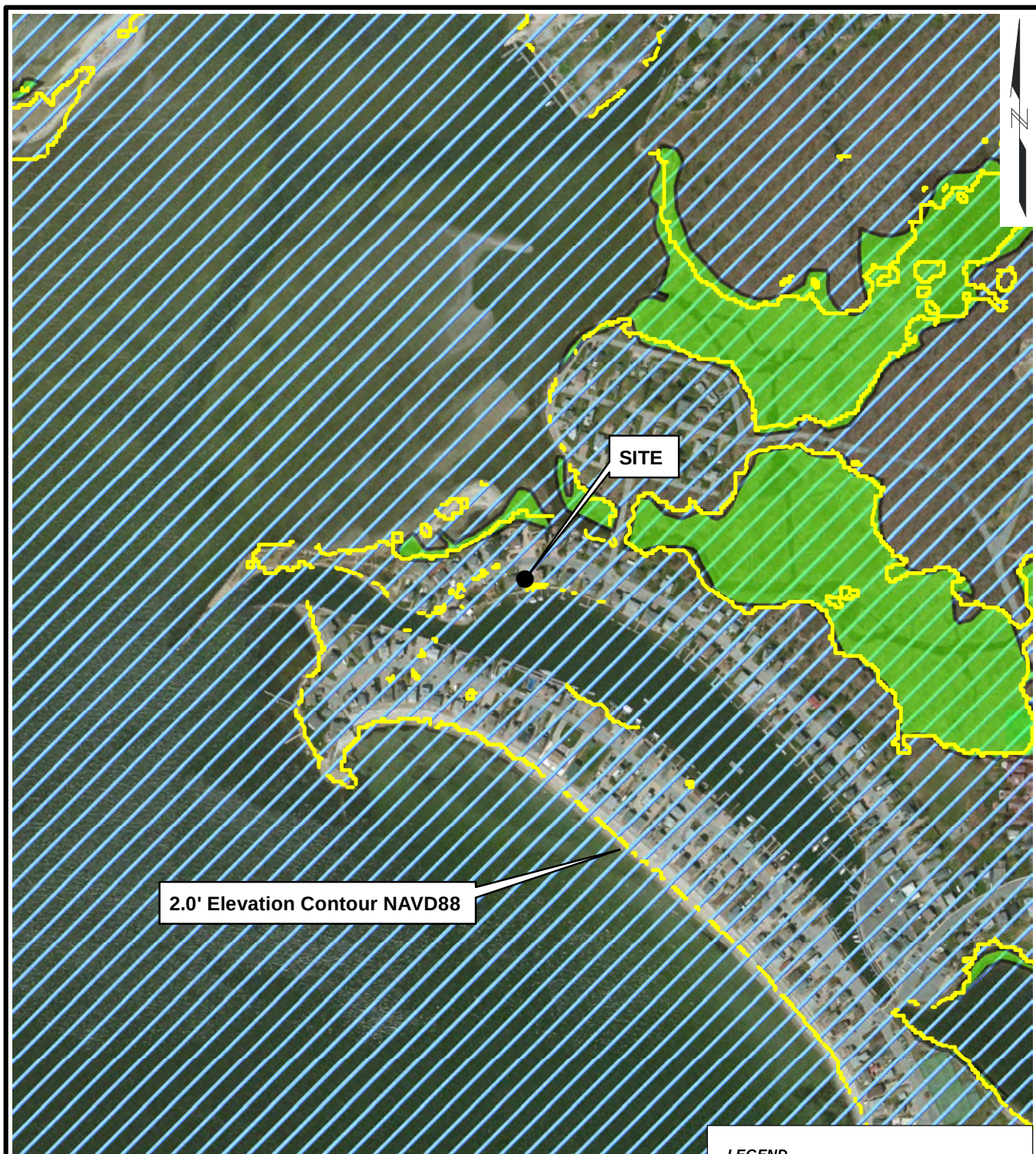


Project 1403900

**NATIONAL WETLANDS
INVENTORY (NWI)**

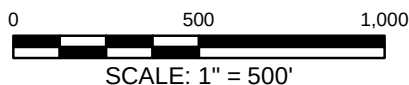
January 2015

Fig. 4



SOURCE:

1. TIDAL WETLANDS (1990s)/COASTAL AREAS FROM CT DEEP GIS.
2. CITY OF GROTON COASTAL JURISDICTION CONTOUR DERIVED FROM CT 10 FT DEM LIDAR, UCONN CLEAR.



LEGEND

- Coastal Jurisdiction Contour
- Tidal Wetland
- ▨ Coastal Boundary

National Environmental Policy Act (NEPA) Statutory
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87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

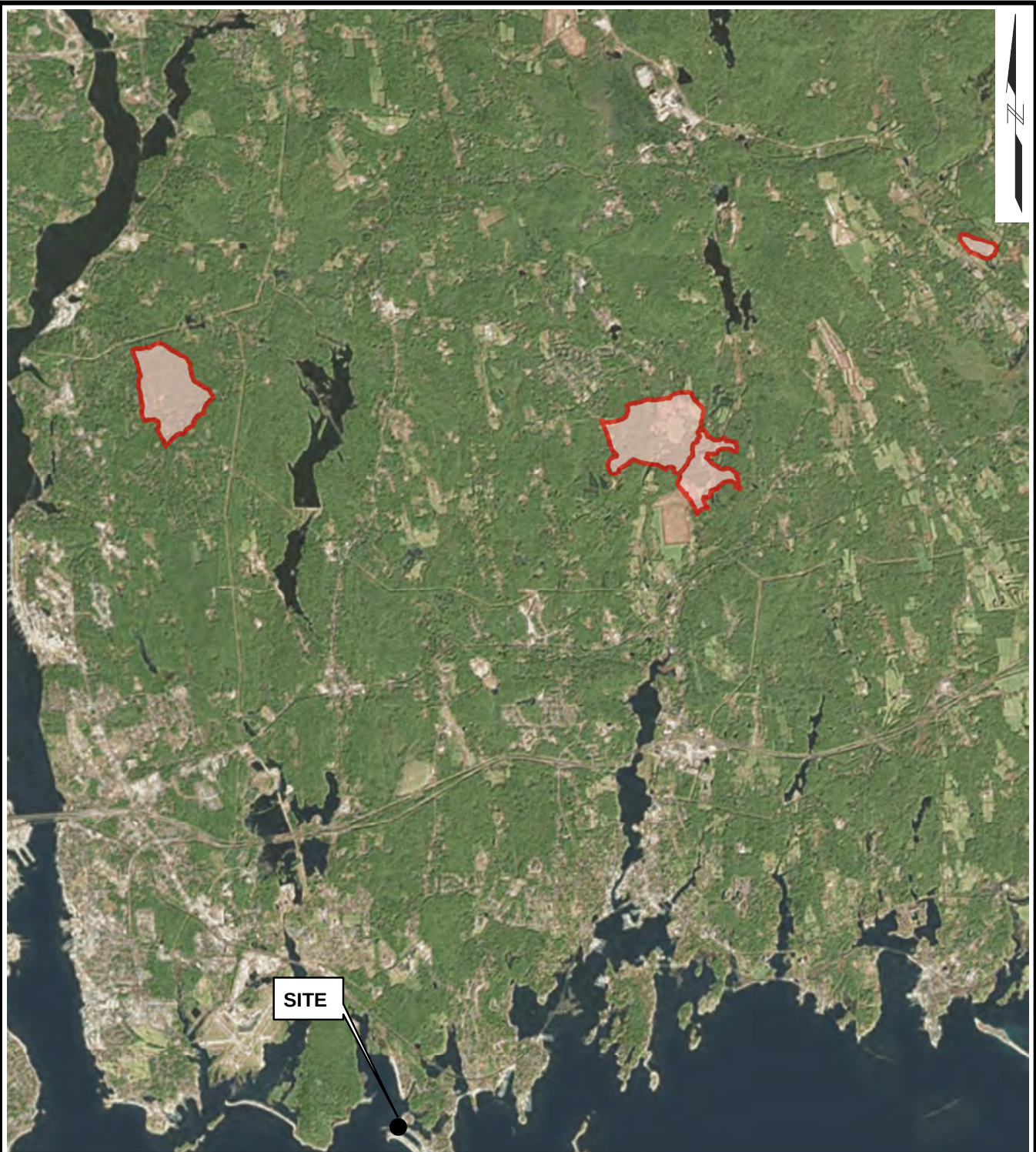


Project 1403900

COASTAL RESOURCES

January 2015

Fig. 5



SOURCE:
1. AQUIFER PROTECTION LAYER
FROM CT DEEP GIS, LAST UPDATED
DEC. 2013.

0 8,000 16,000
SCALE: 1" = 8000'

LEGEND

- Final Adopted Aquifer
- Final Aquifer

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

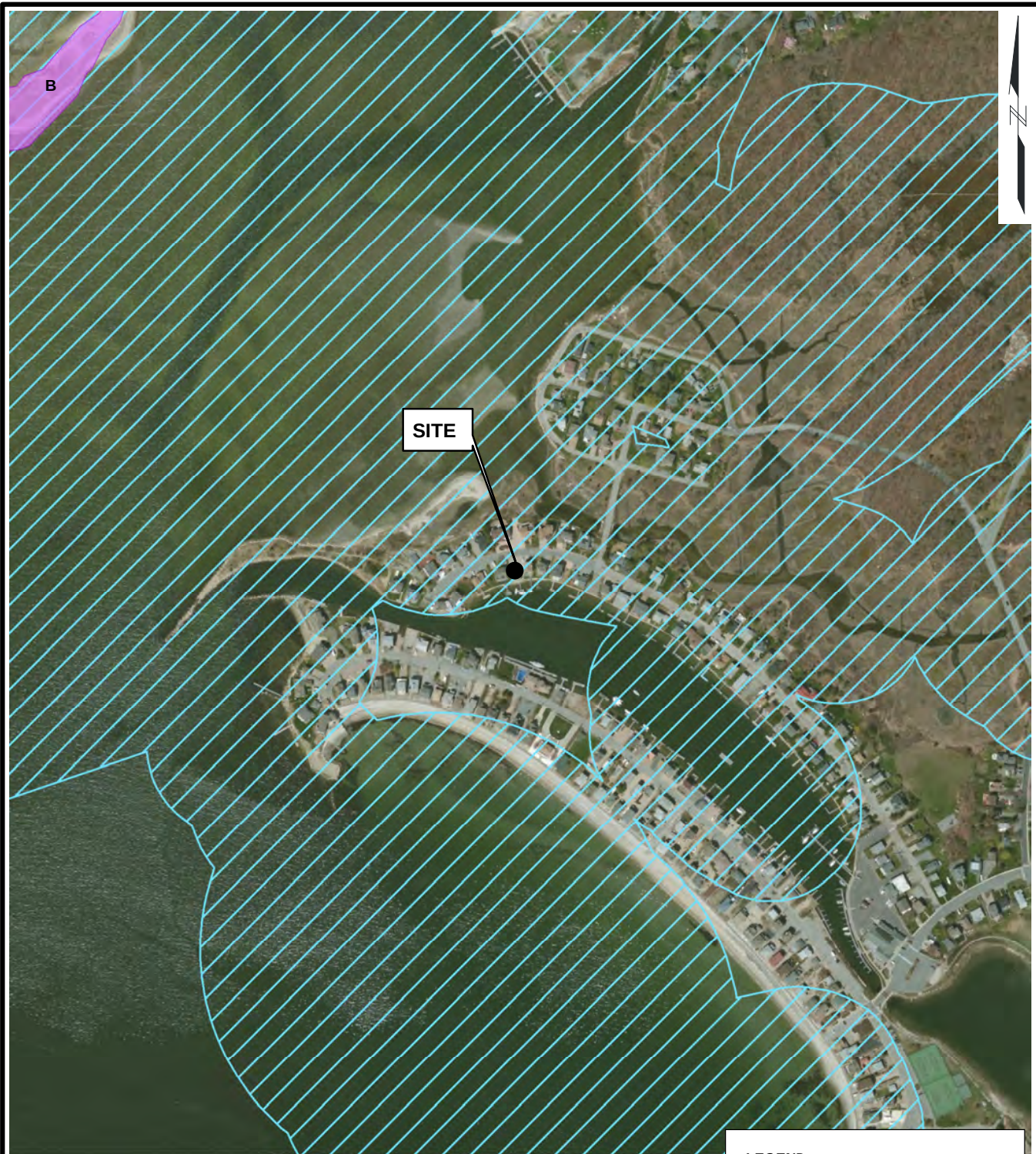


Project 1403900

**AQUIFER PROTECTION
AREA**

January 2015

Fig. 6



SOURCE:
1. NDDDB DATA, CT DEEP GIS, LAST
UPDATED JUNE 2014.

0 500 1,000
SCALE: 1" =500'

LEGEND

Critical Habitat

- Estuarine, Beachshore, B
- Natural Diversity

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



Project 1403900

**NATURAL DIVERSITY
DATABASE AREA AND
CRITICAL HABITAT**

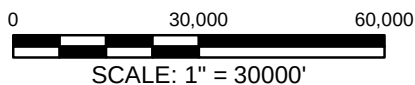
January 2015

Fig. 7



SOURCE:

1. CT DEEP GIS.
2. www.rivers.org; November 2012



LEGEND

— WATERBODY LINE

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

GEI



Consultants

Project 1403900

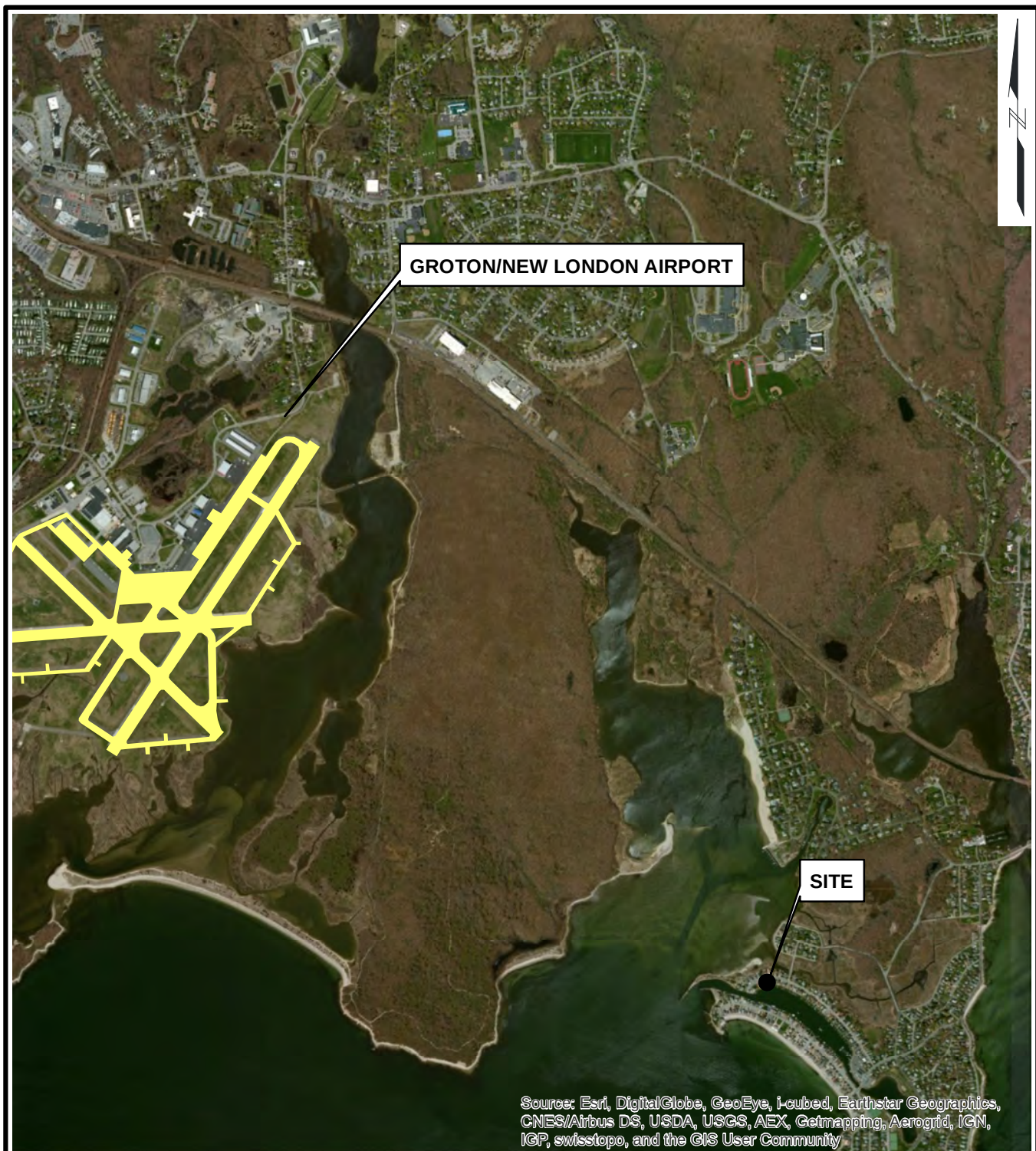
**DISTANCE TO WILD AND
SCENIC RIVER**

January 2015

Fig. 8

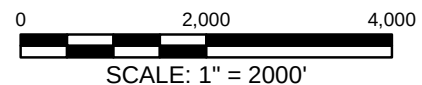


J:\Projects\Eagle Environmental\NEPA\87 Atlantic Ave Groton\Soils.mxd



SOURCE:

1. 2011 ESRI WORLD IMAGERY
2. CT DEEP GIS DATA



National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
87 Atlantic Avenue
Groton, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



Project 1403900

PROXIMITY TO AIRPORT

January 2015

Fig. 10



Department of Economic and
Community Development

Connecticut
still revolutionary

March 28, 2016

Hermia M. Delaire
Program Manager
CDBG - Sandy Disaster Recovery Program
Department of Housing
505 Hudson Street
Hartford, CT 06106

received
3-29-16

Subject: Department of Housing Superstorm Sandy Reviews
87 Atlantic Avenue
Groton, Connecticut

Dear Ms. Delaire:

The State Historic Preservation Office (SHPO) has reviewed the additional information submitted to our office on March 21, 2016 for the above-named property pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. This property was submitted to our office for review during January of 2015. At that time, and based on the information provided, our office was of the opinion that 87 Atlantic Avenue could be a contributing element to a potential historic district eligible for listing on the National Register of Historic Places (NRHP). Since that time, SHPO has completed a more thorough examination of this neighborhood and concluded that the neighborhood encompassing 87 Atlantic Avenue is not cohesive enough to develop a statement of significance that would support its eligibility for listing on the NRHP. Therefore, no historic properties will be affected by the proposed alterations to 87 Atlantic Avenue.

This office appreciates the opportunity to have reviewed and commented upon the project. For further information please contact me at (860) 256-2764 or Catherine.labadia@ct.gov.

Sincerely,

Catherine Labadia
Deputy State Historic Preservation Officer

State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

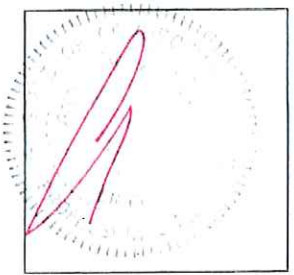
An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender

Attachment B

Appendix B

DECD/SHPO/DOH Professional Certification Form

For all General Permit Applications submitted as part of the Flood Management Certification for Disaster Recovery Activities, the following certification must be signed and sealed by a professional engineer licensed to practice in Connecticut

Property 87 Atlantic Ave. Groton, CT	
Application Number: 201405290-FM	
"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."	
Signature of Applicant	Date 5/11/2014
Hermia Delaire	CDBG-DR
Name of Applicant (print or type)	Program Manager
Signature of Professional Engineer	Date 8/11/15
ANDREW J. KRAR	22052
Name of Professional Engineer (print or type)	P.E. Number
Affix P.E. Stamp Here	
	



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-1781

August 24, 2015

Event Code: 05E1NE00-2015-E-02267

Project Name: 2184 - Jennings

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: 2184 - Jennings

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
(603) 223-2541
<http://www.fws.gov/newengland>

Consultation Code: 05E1NE00-2015-SLI-1781

Event Code: 05E1NE00-2015-E-02267

Project Type: ** OTHER **

Project Name: 2184 - Jennings

Project Description: 87 Atlantic Avenue
Groton, CT

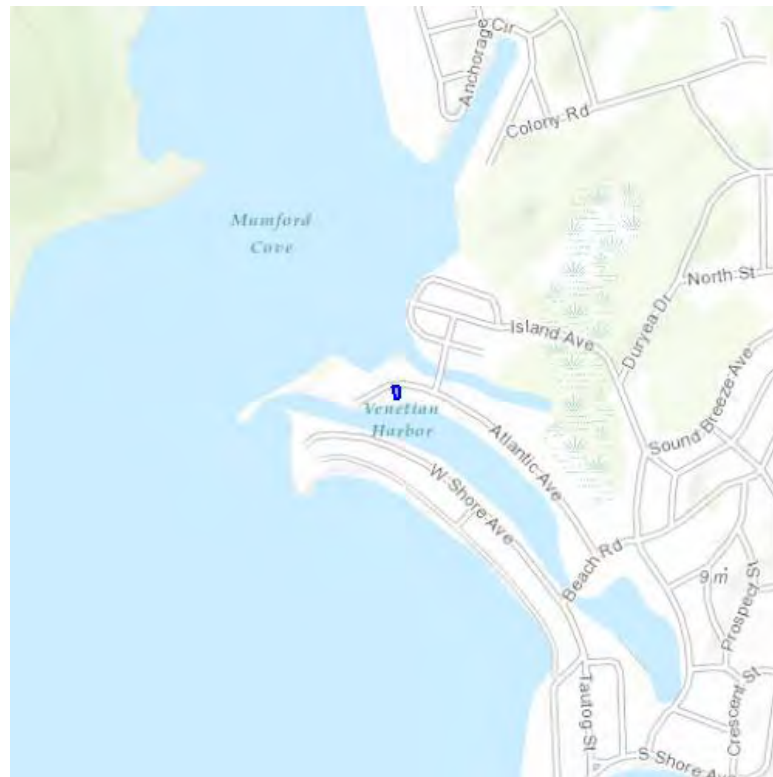
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: 2184 - Jennings

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-72.01489001512527 41.3157053476784, -72.01483100652695 41.3154555414982, -72.01467275619507 41.31547568719339, -72.01469421386719 41.31571139136447, -72.01489001512527 41.3157053476784)))

Project Counties: New London, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 2184 - Jennings

Endangered Species Act Species List

There are a total of 3 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	Status	Has Critical Habitat	Condition(s)
Red Knot (<i>Calidris canutus rufa</i>)	Threatened		
Roseate tern (<i>Sterna dougallii dougallii</i>) Population: northeast U.S. nesting pop.	Endangered		
Mammals			
Northern long-eared Bat (<i>Myotis septentrionalis</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: 2184 - Jennings

Critical habitats that lie within your project area

There are no critical habitats within your project area.

<http://ecos.fws.gov/ipac>, 08/24/2015 07:01 AM

Attachment D

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN CONNECTICUT

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Fairfield	Piping Plover	Threatened	Coastal beaches	Westport, Bridgeport and Stratford
	Roseate Tern	Endangered	Coastal beaches, islands and the Atlantic Ocean	Westport and Stratford
	Bog Turtle	Threatened	Wetlands	Ridgefield and Danbury
	Red Knot ¹	Proposed Threatened	Coastal beaches and rocky shores, sand and mud flats	Coastal towns
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide
Hartford	Dwarf Wedgemussel	Endangered	Farmington and Podunk Rivers, Muddy Brook, Philo Brook, Stony Brook	South Windsor, East Granby, Suffield, Simsbury, Avon and Bloomfield
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide
Litchfield	Small Whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Sharon
	Bog Turtle	Threatened	Wetlands	Sharon and Salisbury
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide
Middlesex	Roseate Tern	Endangered	Coastal beaches, islands and the Atlantic Ocean	Westbrook and New London
	Piping Plover	Threatened	Coastal beaches	Clinton, Westbrook, Old Saybrook
	Puritan Tiger Beetle	Threatened	Sandy beaches along the Connecticut River	Cromwell, Portland
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide
New Haven	Bog Turtle	Threatened	Wetlands	Southbury
	Piping Plover	Threatened	Coastal beaches	Milford, Madison and West Haven
	Roseate Tern	Endangered	Coastal beaches, islands and the Atlantic Ocean	Branford, Guilford and Madison
	Indiana Bat	Endangered	Mines, caves	
	Red Knot ¹	Proposed Threatened	Coastal beaches and rocky shores, sand and mud flats	Coastal towns
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
New London	Piping Plover	Threatened	Coastal beaches	Old Lyme, Waterford, Groton and Stonington
	Roseate Tern	Endangered	Coastal beaches, islands and the Atlantic Ocean	East Lyme and Waterford
	Small Whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Waterford
	Red Knot ¹	Proposed Threatened	Coastal beaches and rocky shores, sand and mud flats	Coastal towns
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide
Tolland	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide
Windham	Sandplain Gerardia	Endangered	Dry, sandy loam, nutrient-poor soils of sandplain grasslands	Plainfield
	Northern Long-eared Bat	Proposed Endangered	Winter-mines and caves, summer-wide variety of forested habitats	Statewide

¹ Migratory only, scattered along the coast in small numbers.

- Eastern cougar, gray wolf, Indiana bat, Seabeach amaranth and American burying beetle are considered extirpated in Connecticut.
- There is no federally designated Critical Habitat in Connecticut.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>



January 7, 2014

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office



DATABASE REPORT

Project Property: 1347-44 2184 87 Atlantic Ave., Groton
87 Atlantic Ave
Groton CT 06340

P.O. Number:

Report Type: Screen Report

Order #: 20150116035

Requested by: GEI Consultants Inc.

Date: January 16, 2015

Ecolog ERIS Ltd.
Environmental Risk Information
Service Ltd. (ERIS)
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com
www.erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

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Executive Summary

Property Information:

Project Property: 1347-44 2184 87 Atlantic Ave., Groton
87 Atlantic Ave Groton CT 06340

P.O. Number:

Coordinates:

Latitude: 41.315703
Longitude: -72.014787
UTM Northing: 4,578,103.77
UTM Easting: 749,873.91
UTM Zone: UTM Zone 18T

Elevation: 7 FT

Order Information:

Order No.: 20150116035
Date Requested: 16/01/2015
Requested by: GEI Consultants Inc.
Report Type: Screen Report

Ancillary Products:

Executive Summary: Report Summary

Database	Searched	Project Property	Within 0.125mi	Total
<u>Standard Environmental Records</u>				
Federal				
NPL	Y	0	0	0
PROPOSED NPL	Y	0	0	0
DELISTED NPL	Y	0	0	0
CERCLIS	Y	0	0	0
CERCLIS NFRAP	Y	0	0	0
CERCLIS LIENS	Y	0	0	0
RCRA CORRACTS	Y	0	0	0
RCRA TSD	Y	0	0	0
RCRA GEN	Y	0	0	0
RCRA NON GEN	Y	0	0	0
FED ENG	Y	0	0	0
FED INST	Y	0	0	0
ERNS 1982 TO 1986	Y	0	0	0
ERNS 1987 TO 1989	Y	0	0	0
ERNS	Y	0	0	0
FED BROWNFIELDS	Y	0	0	0
State				
SHWS	Y	0	0	0
SWF/LF	Y	0	0	0
LUST	Y	0	1	1
UST	Y	0	0	0
AST	Y	0	0	0
AUL	Y	0	0	0
VCP	Y	0	0	0
BROWNFIELDS	Y	0	0	0
CBRA BRWN	Y	0	0	0
Tribal				

Database	Searched	Project Property	Within 0.125mi	Total
ILST	Y	0	0	0
IUST	Y	0	0	0
INDIAN VCP	Y	0	0	0

County *No County standard environmental record sources available for this State.*

Additional Environmental Records

Federal

FINDS/FRS	Y	1	0	22
TRIS	Y	0	0	0
HMIRS	Y	0	0	0
NCDL	Y	0	0	0
ODI	Y	0	0	0
IODI	Y	0	0	0

State

LIENS	Y	0	0	0
CT PROPERTY	Y	0	0	0
SPILLS	Y	0	3	3
CT MANIFEST	Y	0	0	0
CT MAN TSDF	Y	0	0	0
CT HAZ HANDLERS	Y	0	0	0

Tribal *No Tribal additional environmental record sources available for this State.*

County *No County additional environmental record sources available for this State.*

Total:	1	4	26
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Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist mi	Elev diff ft	Page Number
2	FINDS/FRS	87 ATLANTIC AVE.	87 ATLANTIC AVE. GROTON CT	W/0.01	1	14

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist mi</i>	<i>Elev Diff ft</i>	<i>Page Number</i>
<u>1</u>	FINDS/FRS	85 ATLANTIC AVENUE	85 ATLANTIC AVENUE GROTON CT	ENE/0.00	0	<u>14</u>
<u>3</u>	FINDS/FRS	83 ATLANTIC AVE.	83 ATLANTIC AVE. GROTON CT	E/0.01	0	<u>15</u>
<u>4</u>	FINDS/FRS	89 ATLANTIC AVENUE	89 ATLANTIC AVENUE GROTON CT	WSW/0.02	2	<u>16</u>
<u>5</u>	FINDS/FRS	81 ATLANTIC AVE.	81 ATLANTIC AVE. GROTON CT	E/0.03	2	<u>16</u>
<u>6</u>	FINDS/FRS	86 ATLANTIC AVE.	86 ATLANTIC AVE. GROTON CT	E/0.03	2	<u>17</u>
<u>7</u>	FINDS/FRS	93 ATLANTIC AVE.	93 ATLANTIC AVE. GROTON CT	WSW/0.04	2	<u>18</u>
<u>8</u>	FINDS/FRS	77 ATLANTIC AVE.	77 ATLANTIC AVE. GROTON CT	E/0.05	2	<u>18</u>
<u>9</u>	FINDS/FRS	108 ATLANTIC AVE.	108 ATLANTIC AVE. GROTON CT	WSW/0.06	0	<u>19</u>
<u>10</u>	FINDS/FRS	114 ATLANTIC AVE.	114 ATLANTIC AVE. GROTON CT	WSW/0.06	-2	<u>19</u>
<u>11</u>	FINDS/FRS	99 ATLANTIC AVENUE	99 ATLANTIC AVENUE GROTON CT	WSW/0.06	-4	<u>20</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist mi	Elev Diff ft	Page Number
12	FINDS/FRS	73 ATLANTIC AVE.	73 ATLANTIC AVE. GROTON CT	E/0.07	2	21
13	FINDS/FRS	348 WEST SHORE AVE.	348 WEST SHORE AVE. GROTON CT	S/0.08	2	21
13	SPILLS		348 WEST SHORE AVE GROTON LONG POINT GROTON CT 06340-8843 Case NO: 200305083 Status: closed	S/0.08	2	22
14	FINDS/FRS	350 WEST SHORE AVE.	350 WEST SHORE AVE. GROTON CT	SSW/0.08	2	23
15	FINDS/FRS	354 WEST SHORE AVENUE	354 WEST SHORE AVENUE GROTON CT	SSW/0.08	1	24
16	FINDS/FRS	356 WEST SHORE AVENUE	356 WEST SHORE AVENUE GROTON CT	SW/0.09	0	25
17	FINDS/FRS	342 WEST SHORE AVE.	342 WEST SHORE AVE. GROTON CT	S/0.09	1	25
18	FINDS/FRS	358 WEST SHORE AVENUE	358 WEST SHORE AVENUE GROTON CT	SW/0.09	0	26
19	FINDS/FRS	338 WEST SHORE AVENUE	338 WEST SHORE AVENUE GROTON CT	SSE/0.10	2	27
20	SPILLS		47 ISLAND CIRCLE SOUTH GROTON CT 06340-8825 Case NO: 9803198 Status: closed	NE/0.10	1	27
21	FINDS/FRS	336 WEST SHORE AVE.	336 WEST SHORE AVE. GROTON CT	SSE/0.11	2	28

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist mi</i>	<i>Elev Diff ft</i>	<i>Page Number</i>
<u>22</u>	FINDS/FRS	366 WEST SHORE AVENUE	366 WEST SHORE AVENUE GROTON CT	SW/0.12	2	<u>29</u>
<u>23</u>	FINDS/FRS	UNDER ROUTE 1 BRIDGE	UNDER ROUTE 1 BRIDGE GROTON CT	NE/0.12	1	<u>30</u>
<u>23</u>	SPILLS		rte 1 bridge mystic river mystic ct. GROTON CT 06340-3601 Case NO: 200005836 Status: Closed	NE/0.12	1	<u>30</u>
<u>24</u>	LUST	JENSON RESIDENCE	24 ISLAND VIEW AVE. Groton CT 06340 LUST Case ID: 29832 LUST Status: 4	NNE/0.12	2	<u>32</u>
<u>25</u>	FINDS/FRS	368 WEST SHORE AVE.	368 WEST SHORE AVE. GROTON CT	SW/0.12	2	<u>34</u>

Executive Summary: Summary by Data Source

Standard

State

LUST - Leaking Underground Storage Tanks

A search of the LUST database, dated Jul 2013 has found that there are 1 LUST site(s) within approximately 0.125 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
JENSON RESIDENCE	24 ISLAND VIEW AVE. Groton CT 06340	NNE	0.12	24
	<i>LUST Case ID: 29832</i> <i>LUST Status: 4</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
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Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Aug 16, 2014 has found that there are 23 FINDS/FRS site(s) within approximately 0.125 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
87 ATLANTIC AVE.	87 ATLANTIC AVE. GROTON CT	W	0.01	2
83 ATLANTIC AVE.	83 ATLANTIC AVE. GROTON CT	E	0.01	3
89 ATLANTIC AVENUE	89 ATLANTIC AVENUE GROTON CT	WSW	0.02	4
81 ATLANTIC AVE.	81 ATLANTIC AVE. GROTON CT	E	0.03	5

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
86 ATLANTIC AVE.	86 ATLANTIC AVE. GROTON CT	E	0.03	<u>6</u>
93 ATLANTIC AVE.	93 ATLANTIC AVE. GROTON CT	WSW	0.04	<u>7</u>
77 ATLANTIC AVE.	77 ATLANTIC AVE. GROTON CT	E	0.05	<u>8</u>
73 ATLANTIC AVE.	73 ATLANTIC AVE. GROTON CT	E	0.07	<u>12</u>
348 WEST SHORE AVE.	348 WEST SHORE AVE. GROTON CT	S	0.08	<u>13</u>
350 WEST SHORE AVE.	350 WEST SHORE AVE. GROTON CT	SSW	0.08	<u>14</u>
354 WEST SHORE AVENUE	354 WEST SHORE AVENUE GROTON CT	SSW	0.08	<u>15</u>
342 WEST SHORE AVE.	342 WEST SHORE AVE. GROTON CT	S	0.09	<u>17</u>
338 WEST SHORE AVENUE	338 WEST SHORE AVENUE GROTON CT	SSE	0.10	<u>19</u>
336 WEST SHORE AVE.	336 WEST SHORE AVE. GROTON CT	SSE	0.11	<u>21</u>
366 WEST SHORE AVENUE	366 WEST SHORE AVENUE GROTON CT	SW	0.12	<u>22</u>
UNDER ROUTE 1 BRIDGE	UNDER ROUTE 1 BRIDGE GROTON CT	NE	0.12	<u>23</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
368 WEST SHORE AVE.	368 WEST SHORE AVE. GROTON CT	SW	0.12	25

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
85 ATLANTIC AVENUE	85 ATLANTIC AVENUE GROTON CT	ENE	0.00	1
108 ATLANTIC AVE.	108 ATLANTIC AVE. GROTON CT	WSW	0.06	9
114 ATLANTIC AVE.	114 ATLANTIC AVE. GROTON CT	WSW	0.06	10
99 ATLANTIC AVENUE	99 ATLANTIC AVENUE GROTON CT	WSW	0.06	11
356 WEST SHORE AVENUE	356 WEST SHORE AVENUE GROTON CT	SW	0.09	16
358 WEST SHORE AVENUE	358 WEST SHORE AVENUE GROTON CT	SW	0.09	18

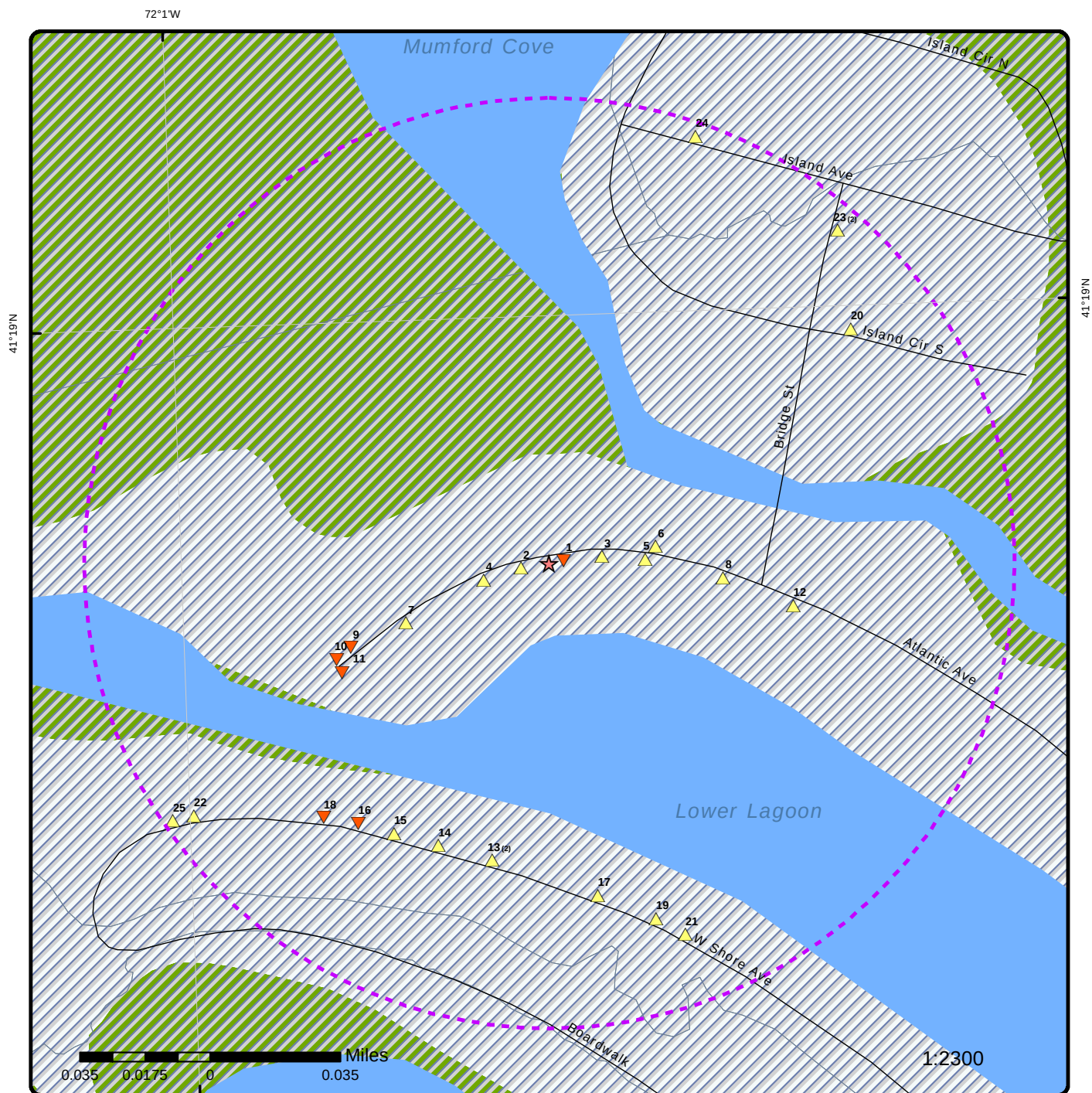
State

SPILLS - Spill Incident Tracking System (SITS)

A search of the SPILLS database, dated JUL 17, 2013 has found that there are 3 SPILLS site(s) within approximately 0.125 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
	348 WEST SHORE AVE GROTON LONG POINT GROTON CT 06340-8843 Case NO: 200305083 Status: closed	S	0.08	13
	47 ISLAND CIRCLE SOUTH GROTON CT 06340-8825 Case NO: 9803198 Status: closed	NE	0.10	20
	rte 1 bridge mystic river mystic ct. GROTON CT 06340-3601 Case NO: 200005836 Status: Closed	NE	0.12	23

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
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Map

Order No: 20150116035

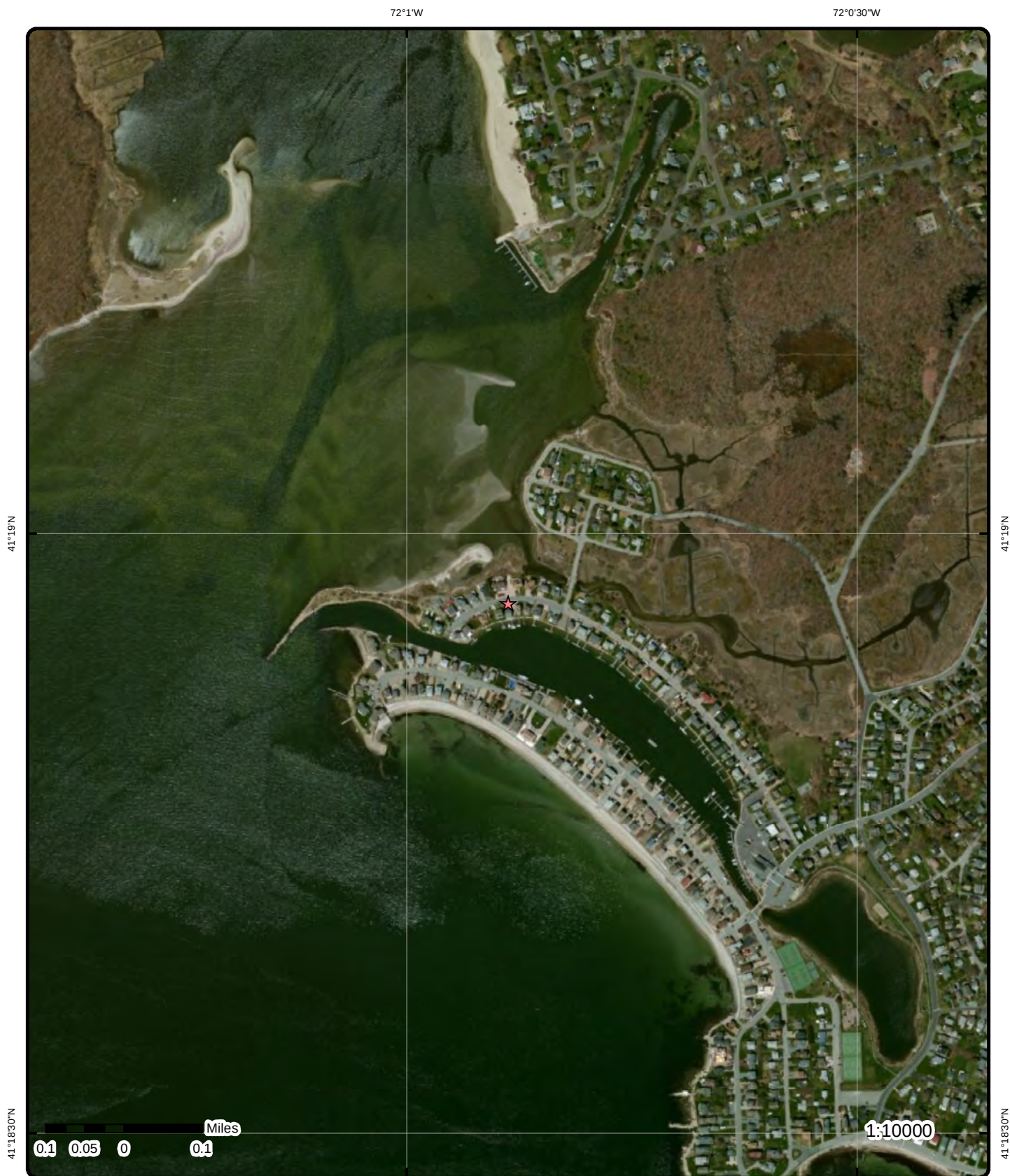
Address: 87 Atlantic Ave Groton CT 06340 US



★ Project Property	— Major Highways	— Rails	Indian Reserve Land
--- Buffer Outline	— Major Highways Ramps	--- County Boundary	Historic Fill
▲ Eris Sites with Higher Elevation	— Major Roads	— State Boundary	State Brownfield Sites
■ Eris Sites with Same Elevation	— Major Roads Ramps	500 Year Flood Zone	State Brownfield Areas
▼ Eris Sites with Lower Elevation	— Secondary Roads	100 Year Flood Zone	State Superfund Areas: Dept. of Defense
○ Eris Sites with Unknown Elevation	— Secondary Roads Ramps	National Priority List Sites	State Superfund Areas: NPL
	— Local Roads and Ramps	National Wetland	Water Quality Assurance Revolving Fund Areas

Source: © 2012 ESRI

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Aerial

Order No: 20150116035

Address: 87 Atlantic Ave Groton CT 06340 US

Source: ESRI World Imagery, Updated October 2014

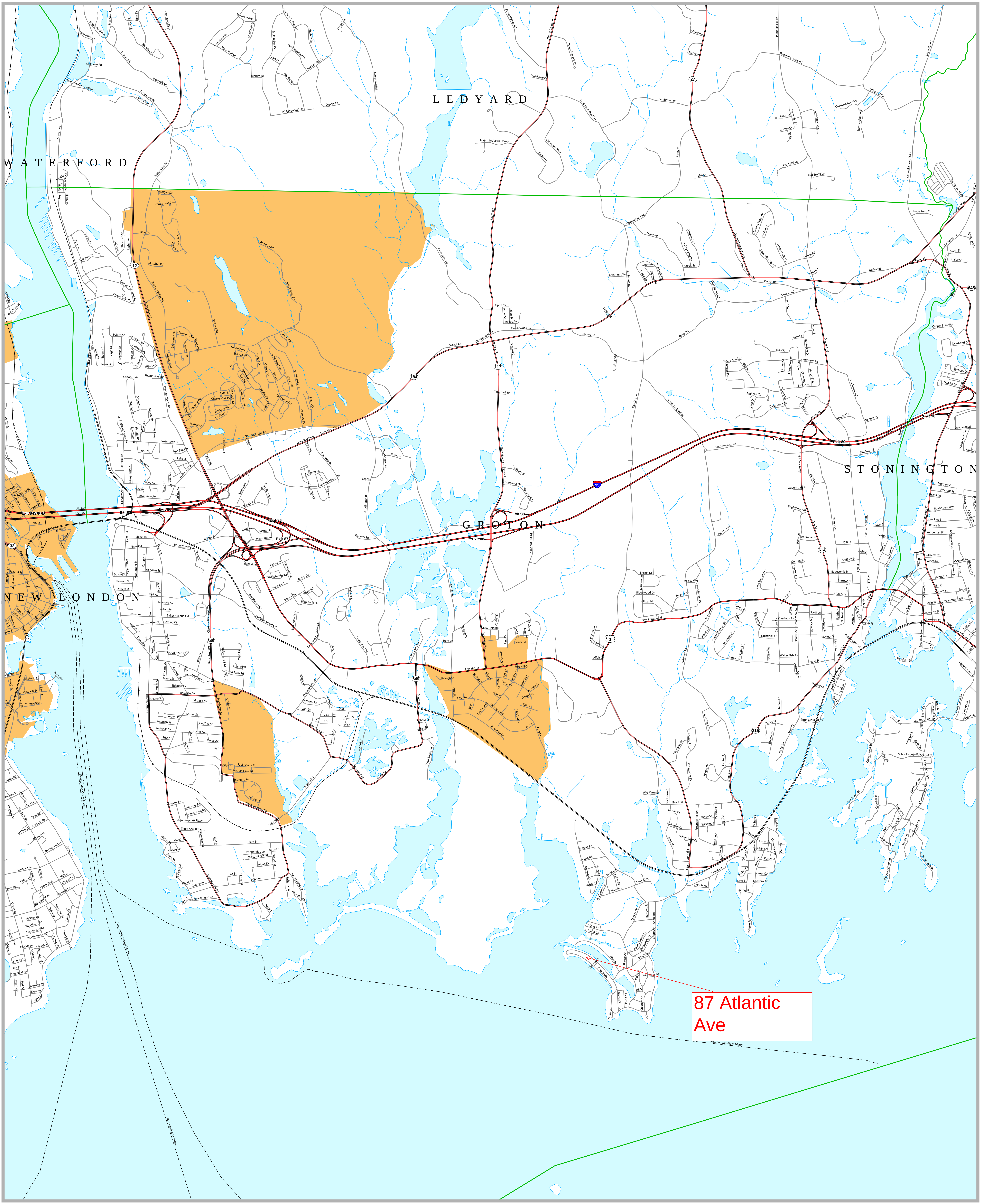
© Ecolog ERIS Ltd

Attachment G

2013 Distressed Municipalities Ranked by Score			2013 Distressed Municipalities In town alphabetical order	
Total Scores			Total Scores	
Waterbury	1455	1	Ansonia	1326
Hartford	1449	2	Bridgeport	1380
New Britain	1446	3	Bristol	1261
Bridgeport	1380	4	Derby	1284
Naugatuck	1349	5	East Hartford	1246
New London	1349	6	Enfield	1227
Ansonia	1326	7	Groton	1176
Windham	1311	8	Hartford	1449
Plainfield	1296	9	Killingly	1268
Derby	1284	10	Meriden	1236
Torrington	1275	11	Montville	1136
Killingly	1268	12	Naugatuck	1349
Bristol	1261	13	New Britain	1446
North Canaan	1261	14	New Haven	1253
Sprague	1256	15	New London	1349
New Haven	1253	16	North Canaan	1261
East Hartford	1246	17	Plainfield	1296
Meriden	1236	18	Plymouth	1128
Enfield	1227	19	Putnam	1151
Winchester	1210	20	Sprague	1256
West Haven	1200	21	Torrington	1275
Groton	1176	22	Waterbury	1455
Putnam	1151	23	West Haven	1200
Montville	1136	24	Winchester	1210
Plymouth	1128	25	Windham	1311

Source:

Connecticut Department of Economic and Community Development
<http://www.ct.gov/ecd/cwp/view.asp?a=1105&q=251248>



Environmental Justice Communities

GROTON, CT



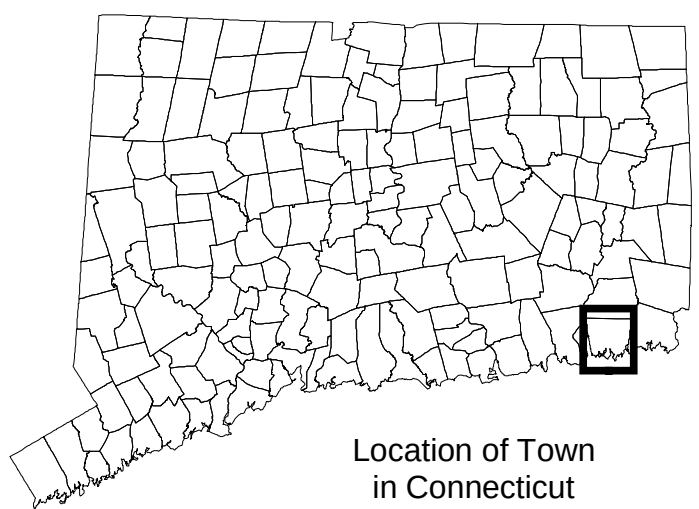
STATE OF CONNECTICUT
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map prepared January 2009

Low Income Communities
Town Boundary

This map shows a municipality having U.S. census block groups with 30% of their population living below 200% of the federal poverty level.

Note: The applicable facilities must be located directly in the defined census block or in a municipality on the CT Department of Economic and Community Development list of distressed municipalities to be considered under Public Act 08-94 and the Environmental Justice Policy.



Location of Town
in Connecticut



EAGLE Environmental, Inc.



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

September 9, 2015

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

**RE: Environmental Assessment Report
Department of Housing
CDBG-DR – Sandy Disaster Recovery Program
87 Atlantic Avenue
Groton, Connecticut 06340
Application #2184
Eagle Project No. 15-015.10T2**

Dear Mr. Holmes:

Please find the Environmental Assessment Report conducted at 87 Atlantic Avenue located in Groton, Connecticut (Site). The environmental assessment was performed in support of the planned renovations/repairs to the Site building under the State of Connecticut Department of Housing Community Development Block Grant – Disaster Recovery Program (Program). The assessment focused only on those areas of the building that are scheduled for renovation/repair work with the exception of the lead-based paint hazard screen, which included the interior and exterior of the entire building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

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

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

Sincerely,
Eagle Environmental, Inc.


Report Prepared By:

Aaron E. Hatcher
Project Manager


Report Reviewed By:

Peter J. Folino
Project Manager

\\Eaglesvr\public\2015 Files\2015 Reports\CSA - SSS\Super Storm Sandy\87 Atlantic Ave\87 Atlantic Ave - Enviro Assessment Report.doc

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

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EAGLE ENVIRONMENTAL, INC.

8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786

PHONE (860) 589-8257 • FAX (860) 585-7034

1. INTRODUCTION

On January 26, 2015, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 87 Atlantic Avenue in Groton, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint hazard screen and a visual inspection for microbial contamination.

1.1 Inspection Area Description

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection were determined by reviewing the planned renovation work provided in CSA's Project Scope dated August 19, 2014 and revised November 20, 2014. For the purpose of this project the following areas were inspected:

- Crawl space
- Exterior facades

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

A complete list of components that were tested may be found in the XRF Lead-Based Paint Inspection Detailed Report.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

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

The asbestos inspection was performed by Eltwaun Lawrence; a State of Connecticut licensed Asbestos Inspector (license #000845).

2.2 Lead-based Paint

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

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

1. Residential property receiving \$5,000 or less per unit (Not Applicable to this Project):
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.
 - c. Interim control measures may be utilized throughout the building
 - d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.
 - e. After the completion of any rehabilitation work that has disturbed painted surfaces, clearances are to be performed.
2. Residential property receiving between \$5,000 and \$25,000 per unit:
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.
 - c. Perform interim controls on all lead hazards identified during the lead hazard screen.
 - d. Perform clearance testing following interim control work and renovations.
 - e. Provide notice of lead-hazard reduction within 15 days of completion of work.
3. **Residential property receiving greater than \$25,000 per unit:**
 - a. **Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.**
 - b. **Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.**
 - c. **Abate all interior lead-based paint hazards identified during the lead inspection/risk assessment. Interim controls are acceptable on**

exterior surfaces that are not disturbed by rehabilitation and on paint-lead hazards that are below the de minimus levels.

- d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.**
- e. Perform clearance testing following abatement work.**
- f. Provide notice of lead-hazard reduction within 15 days of completion of work.**

The lead-based paint hazard screen was performed by Kristen Liljehult; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002206).

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

2.3 Radon Testing

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

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

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

2.4 Mold Inspection

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

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

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

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

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

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, towed or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

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

3.1.3 Bulk Sample Analysis

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

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

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method for 87 Atlantic Avenue in Groton, Connecticut.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method for 87 Atlantic Avenue in Groton, Connecticut.

3.2 Lead-based Paint

3.2.1 Lead-Based Paint Hazard Screen

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

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

The data is presented on computer generated Lead Inspection Reports contained in Appendix 4. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

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

3.2.2 Risk Assessment

The visual assessment is conducted to locate potential lead based paint hazards and to evaluate the magnitude of the hazard. The visual assessment identifies deteriorated painted surfaces, areas of visible dust accumulation, areas of bare soil, the presence of friction and impact surfaces, and the presence of painted surfaces on which it is possible for a child under six (6) years old to mouth ("chewable surfaces"). The information gathered during the visual assessment is used to identify areas where defective paint is present and to determine where potential dust and soil samples are to be collected and preliminarily evaluate exposure pathways to lead hazards.

3.3 Radon Testing

The site building is scheduled to be elevated with the lowest level of the building not in contact with the ground; therefore, radon testing was not performed at the time of inspection.

3.4 Mold Inspection

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

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

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

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

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection three (3) bulk samples of suspect ACM were collected and analyzed. All samples were confirmed to be Non-ACM. No further action is required.

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

None of the samples collected were identified as ACM. If any additional suspect materials will be impacted during the renovation work, then additional sampling will be required.

4.2 Lead-based Paint

4.2.1 Lead-based Paint Hazard Screen Results

A copy of this lead-hazard screen report must be provided to residents within fifteen (15) days of the evaluation. The visual assessment confirmed that a majority of the painted surfaces within the building contained paint coatings in an intact condition. The intact paint coatings were not tested by XRF and are assumed to be lead-based paint. The paint coatings should be managed in place. There were no children under the age of six years old residing in the building at the time of the inspection.

A total of thirty-one (31) XRF readings were collected during the lead-based paint hazard screen of the building. All paint readings were collected from within the Enclosed Porch (Room 001). From the thirty-one (31) readings, twenty-two (22) were found to contain toxic levels of lead-based paint. The general inventory of surfaces containing lead-based paint include the following:

- Wainscoting Ceiling
- Wainscoting Wall
- Window Casing, Jamb, Stop, Sash, Sill
- Door, Door Casing, Stop, Threshold

Eagle did not test under any vinyl siding or aluminum trim enclosures as these materials appeared to have been recently installed. All painted wood covered with vinyl siding or aluminum trim coverings is assumed to be lead-based until tested and proven otherwise.

The lead-based paint identified at the property will not impact the proposed scope of work to be performed; however, the hazards (defective lead-based paint) will need to be addressed as part of the renovation job. If any exterior enclosures are disturbed or removed during the elevation process, lead safe work practices must be utilized as the substrate underneath is assumed to contain toxic levels of lead-based paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 4.

4.2.2 Risk Assessment

The risk assessment visual inspection combined with XRF testing of the interior and exterior revealed the potential for lead exposure where lead-based paint was assessed to be in "poor" (defective) condition. Paint which is determined to be in "poor" (defective) condition is identified by having characteristics including, but not limited to, chipping, peeling, flaking, and cracking. Lead-based paint which is identified as being in "poor" (defective) condition is indicated with the

designation "P" in the XRF Lead Inspection Summary Report under the column heading "Paint Condition."

Within the interior as well as the exterior of the building, lead-based paint in "poor" (defective) condition was identified on the majority of the identified components. The lead-based paint in "poor" (defective) condition is due to contact damage and friction/impact.

4.2.3 Dust Hazards

A total of ten (10) dust wipes were collected from various locations throughout the dwelling. No dust-lead hazards were identified at the sampled locations at the time of inspection. Eagle Environmental, Inc. recommends that the homeowner continues to follow their current cleaning regimen.

A copy of the dust sample laboratory reports may be found in Appendix 5.

4.2.4 Soil Hazards

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

4.2.5 Regulatory Requirements

No children under the age of six (6) years old resided at this site building at the time of the inspection. However, the Federal funding for this project is anticipated to exceed \$25,000.00. This residence is considered target housing by the USEPA (constructed prior to 1978). All lead-based paint abatement and interim control work shall be performed by a Lead Abatement Contractor and conducted in compliance with all Federal, State and local regulations. Specifically, work shall conform with The Department of Housing and Urban Development (HUD) Guidelines For the Control and Evaluation of Lead Based Paint in Housing, The United States Environmental Protection Agency (USEPA), The State of Connecticut Department of Public Health (DPH) Lead Poisoning Prevention and Control Regulations, The State of Connecticut Department of Energy and Environmental Protection (DEEP) Hazardous Waste Disposal regulations and the Department of Labor's Occupational Safety and Health Administration (OSHA) Lead in Construction Final Rule 29 CFR 1926.62.

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

4.3 Radon

Radon is measured in Picocuries of radon per Liter of air or pCi/L. The USEPA has set a national action level of 4 pCi/L. Ambient concentrations of radon are approximately 0.4

pCi/L of radon for outside air. The USEPA recommends that short term tests that have results of 4 pCi/L or greater be confirmed with a second short-term test. Two short-term tests with results equal to or greater than 4 pCi/L require that radon mitigation be performed.

A review of the Indoor Radon Potential Map of Connecticut indicates a Radon Potential Rating of Low-Moderate (16%). The Radon Potential Rating indicates the percentage of tested homes in this geographical area with basement air radon greater than or equal to 4.0 pCi/l (USEPA Action Level for Radon)

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

4.4 Mold

The homeowner informed the inspectors that the first floor was extensively remodeled after Hurricane Sandy due to the flooding. At the time of inspection, there is no evidence of water intrusion, staining or damage on the ceilings or walls within the interior of the dwelling.

The mold inspection forms are provided in Appendix 7.

5. COST ESTIMATES

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

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

The cost estimates are provided in Appendix 8.

TABLE I
ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
87 ATLANTIC AVENUE
GROTON, CONNECTICUT

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

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
87 ATLANTIC AVENUE
GROTON, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Façade A, B, C, D	Black vapor barrier behind vinyl siding	1-26-EL-01	MISC	NAD			NO
		1-26-EL-02		Not Submitted			
		1-26-EL-03		NAD			
		1-26-EL-04		NAD			
KEY				ANALYTICAL METHODS			
DNA = DID NOT ANALYZE	SURF = MISCELLANEOUS MATERIAL	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 = Anthophyllite		EA = Each			
SURF = SURFACING MATERIAL		Trem = Tremolite					
MISC = MISCELLANEOUS MATERIAL		Croc = Crocidolite					
				BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION			

APPENDIX 1
FLOOR PLANS

CAPITAL STUDIO ARCHITECTS

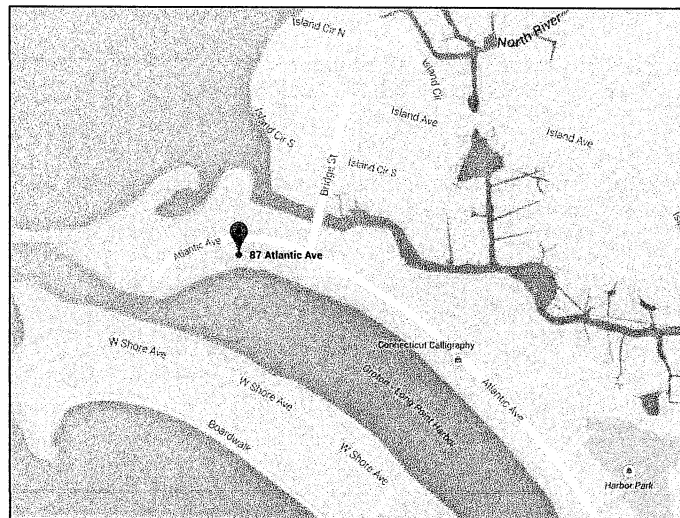
87 ATLANTIC AVENUE
GROTON, CONNECTICUT

EAGLE PROJECT NUMBER: 15-015.10T2

INDEX OF DRAWINGS

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

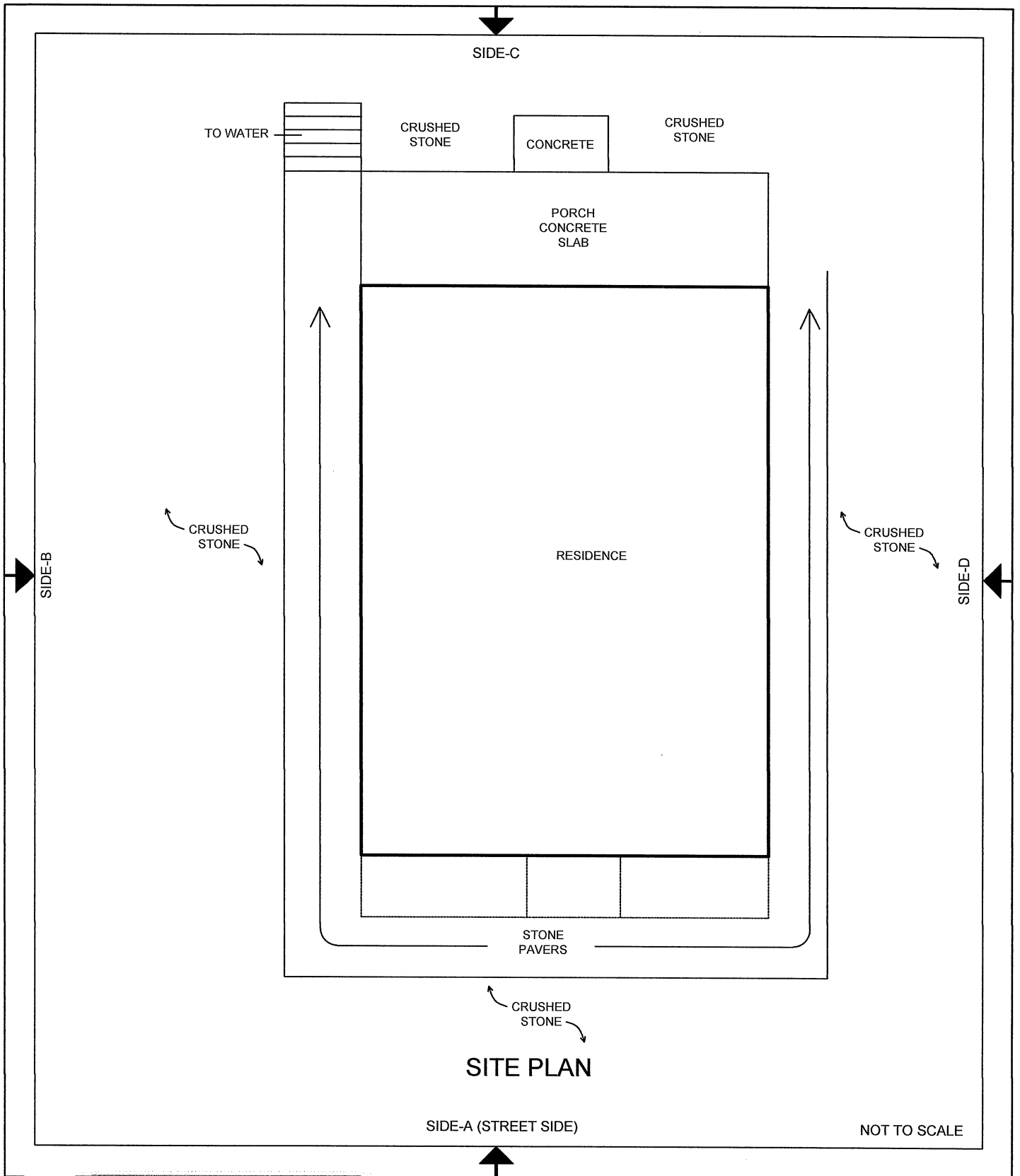
LOCATION MAP



AUGUST 25, 2015



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



SITE PLAN



EAGLE
Environmental, Inc.

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

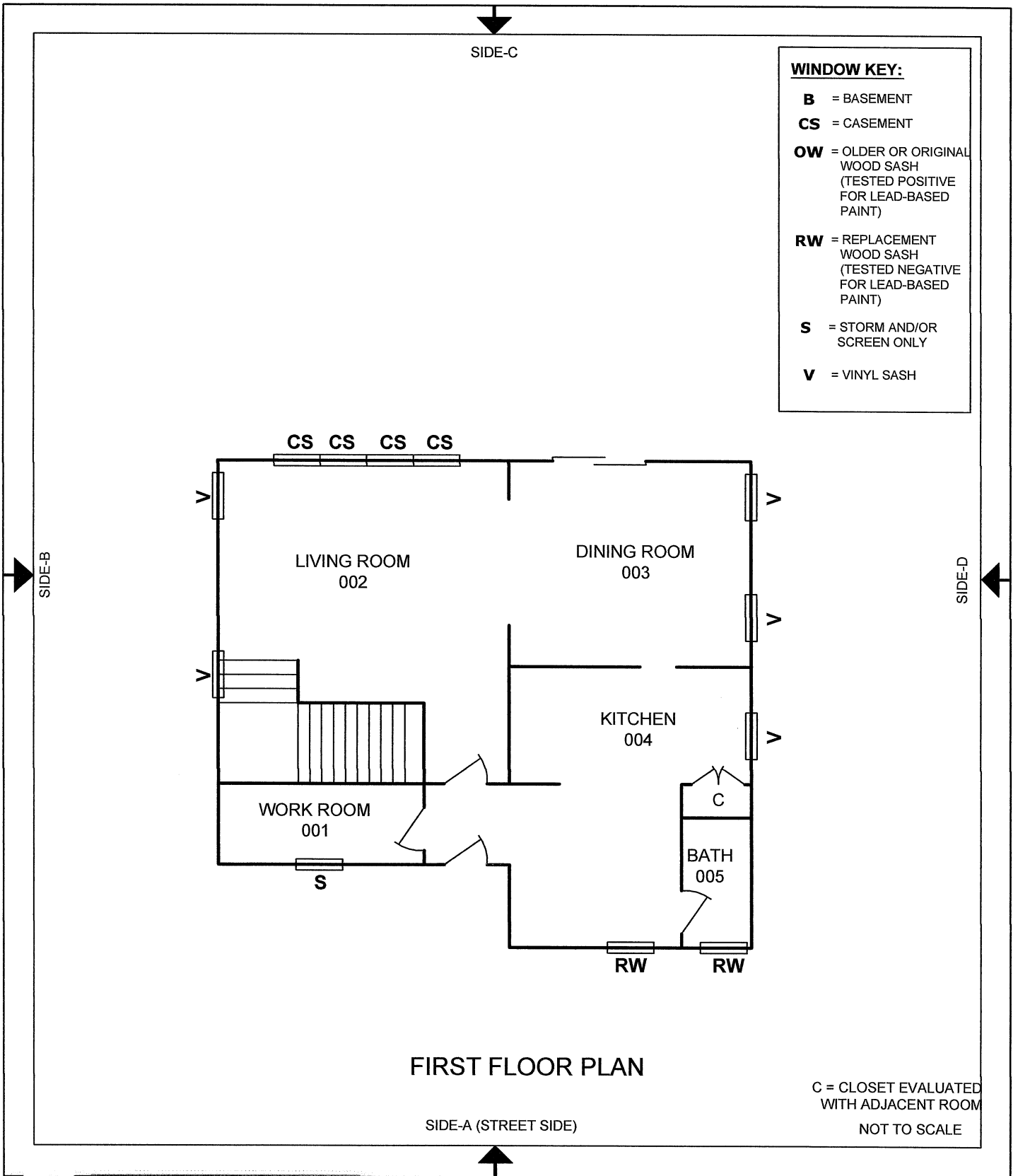
DATE: 08/25/2015
PROJECT NO.: 15-015.10T2
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
87 ATLANTIC AVENUE
GROTON, CONNECTICUT

SHEET NO.

SP-1

SHEET 1 OF 3



EAGLE
Environmental, Inc.

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

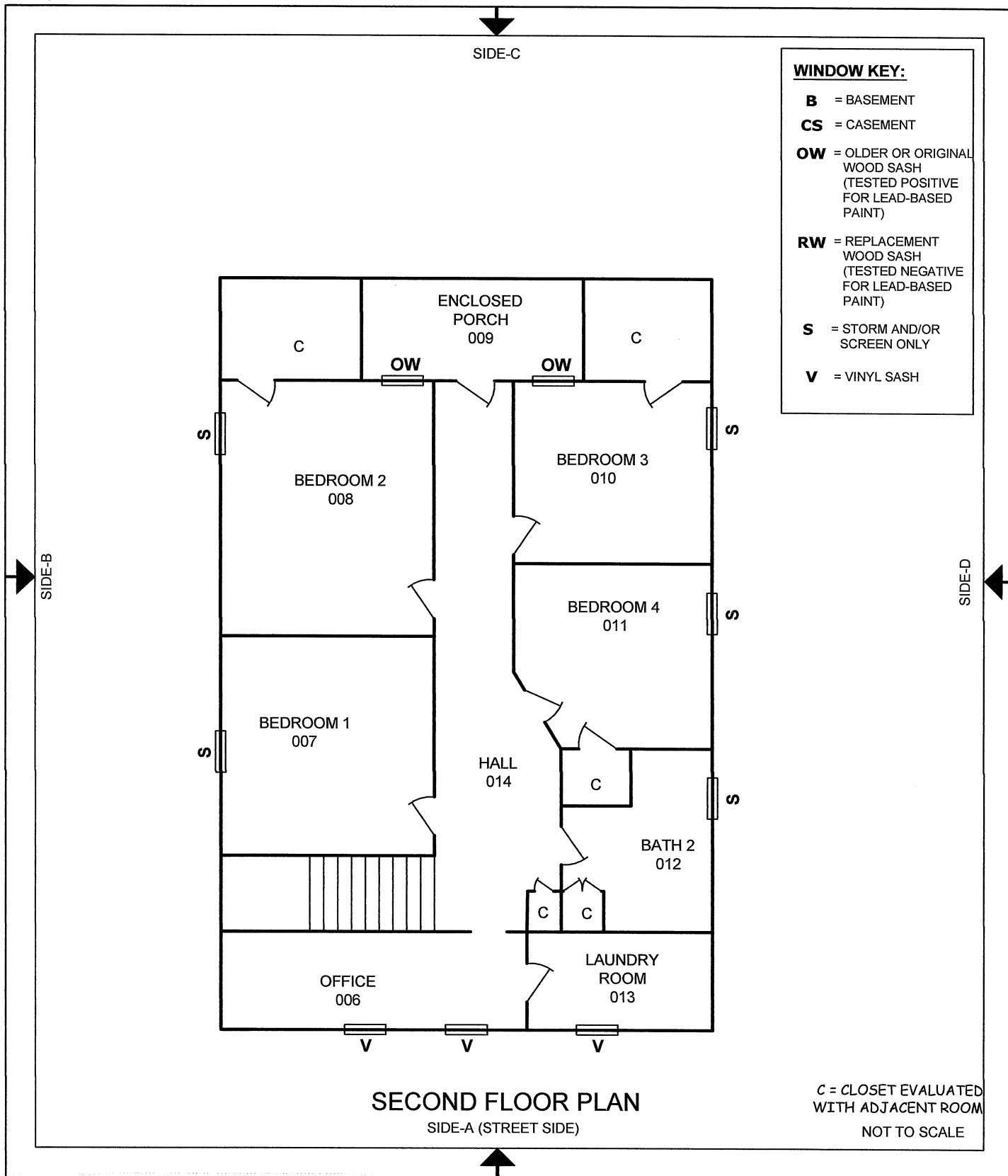
DATE: 08/25/2015
PROJECT NO.: 15-015.10T2
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
87 ATLANTIC AVENUE
GROTON, CONNECTICUT

SHEET NO.

FP-1

SHEET 2 OF 3



EAGLE
Environmental, Inc.

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

SHEET NO.

DATE: 08/25/2015
PROJECT NO.: 15-015.10T2
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
87 ATLANTIC AVENUE
GROTON, CONNECTICUT

FP-2

SHEET 3 OF 3

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS



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

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

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

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

Your Name: Brandy LeBlanc **Project Manager:** PF
Company: Eagle Environmental, Inc.
Street: 8 South Main Street, Suite 3
City/State/Zip: Terryville, CT 06786
Phone: 860-589-8257 ext. 108 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com, dwynne@eagleenviro.com, rsioch@eagleenviro.com
Project Name: CSA-SSS **Project #:** 15-015.10T2
Project Location: 87 Atlantic Avenue, Groton **Project State (US):** CT

TURNAROUND TIME

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

SAMPLE MATRIX

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

ASBESTOS ANALYSIS

PCM - Air

☐ NIOSH 7400 (A) Issue 2: August 1994
☐ OSHA w/TWA

TEM AIR

☐ AHERA 40 CFR, Part 763 Subpart E
☐ NIOSH 7402 Issue 2
☐ EPA Level II

PLM - Bulk

☒ EPA 600/R-93/116
☐ NY Stratified Point Count
☐ California Air Resource Board (CARB) 435
☐ NIOSH 9002
☐ PLM NOB (Gravimetric) NYS 198.1
☐ EPA Point Count (400 Points)
☐ EPA Point Count (1,000 Points)
☐ Standard Addition Point Count

SOILS

☐ EPA Protocol Qualitative
☐ EPA Protocol Quantitative
☐ EMSL MSD 9000 Method fibers/gram
☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK

☐ Drop Mount (Qualitative)
☐ Chatfield SOP-1988-02
☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

☐ ASTM D 5755-95 (Quantitative)

TEM WIPE

☐ ASTM D-6480-99
☐ Qualitative

TEM WATER

☐ EPA 100.1
☐ EPA 100.2
☐ NYS 198.2
☐ Other

LEAD ANALYSIS

Flame Atomic Absorption

☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
☐ Soil, SW846-7420
☐ Air, NIOSH 7082
☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
☐ Wastewater, SW 846-7420
☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

☐ Air, NIOSH 7105
☐ Wastewater, SW846-7421
☐ Soil, SW846-7421
☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma

☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
☐ Soil, SW846-6010
☐ Air, NIOSH 7300

MATERIALS ANALYSIS

☐ Full Particle Identification
☐ Optical Particle Identification
☐ Dust Mites and Insect Fragments
☐ Particle Size & Distribution
☐ Product Comparison
☐ Paint Characterization
☐ Failure Analysis
☐ Corrosion Analysis
☐ Glove Box Containment Study
☐ Petrographic Examination of Concrete
☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
☐ Man Made Vitreous Fibers – MMVF's
☐ Synthetic Fiber Identification
☐ Other

MICROBIAL ANALYSIS

Air Samples

☐ Mold & Fungi by Air O Cell
☐ Mold & Fungi by Agar Plate count & id
☐ Bacterial Count and Gram Stain
☐ Bacterial Count and Identification

Water Samples

☐ Total Coliforms, Fecal Coliforms
☐ Escherichia Coli, Fecal Streptococcus
☐ Legionella
☐ Salmonella
☐ Giardia and Cryptosporidium

Wipe and Bulk Samples

☐ Mold & Fungi – Direct Examination
☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
☐ Mold & Fungi – Culture (Count & ID)
☐ Mold & Fungi – Culture (Count only)
☐ Bacterial Count & Gram Stain
☐ Bacterial Count & Identification (3 most prominent types)
☐ Other

IAQ ANALYSIS

☐ Nuisance Dust (NIOSH 0500 & 0600)
☐ Airborne Dust (PM10, TSP)
☐ Silica Analysis by XRD ☐ NIOSH 7500
☐ HVAC Efficiency
☐ Carbon Black
☐ Airborne Oil Mist
☐ Other

031502531

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

Client Sample # (S)	1-26-EL-01	1-26-EL-04	TOTAL SAMPLE #	4
Relinquished:	ELTWAUN LAWRENCE	Date: 1-26-15	Time: PM	
Received:	RENEE SIOCH	Date: 1-26-15	Time: PM	
Relinquished:	RENEE SIOCH	Date: 1-28-15	Time: PM	
Received:		Date: 1/29/15	Time: 11:23 am	

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

[illegible]

RECEIVED
FBI NEW YORK
JAN 29 AM 11:23

081502531

1/24/15
Rec'd by K Mansh
1/29/15 11:23am

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

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

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

EMSL Order: 031502531

CustomerID: EEVM50

CustomerPO:

ProjectID:

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

Phone: (860) 589-8257
Fax: (860) 585-7034
Received: 01/29/15 11:23 AM
Analysis Date: 1/29/2015
Collected: 1/26/2015

Project: 15-015.10T2/ CSA - SSS/ 87 ATLANTIC AVE./ GROTON

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-26-EL-01 031502531-0001	BLACK VAPOR BARRIER BEHIND VINYL SIDING - FACADE B	Black Fibrous Homogeneous	84% Cellulose	16% Non-fibrous (other)	None Detected
1-26-EL-02 031502531-0002	BLACK VAPOR BARRIER BEHIND VINYL SIDING - FACADE C				Not Submitted
Empty sample bag.					
1-26-EL-03 031502531-0003	WHITE CAULK ALONG CHIMNEY SIDING - FACADE B	White Non-Fibrous Homogeneous		45% Ca Carbonate 30% Matrix 25% Non-fibrous (other)	None Detected
1-26-EL-04 031502531-0004	WHITE CAULK ALONG CHIMNEY SIDING - FACADE B	Gray/White Non-Fibrous Heterogeneous	3% Glass	17% Ca Carbonate 55% Matrix 25% Non-fibrous (other)	None Detected

Analyst(s)

Steve Juszczuk (1)

Shahrakur Mahmud (2)

James Hall, Laboratory Manager
or other approved signatory

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

Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 01/30/2015 03:36:19

APPENDIX 3
PHOTOGRAPHS

EAGLE ENVIRONMENTAL, INC
8 SOUTH MAIN STREET, TERRYVILLE, CT 06786

Project No.: 15-015.10T2

Project Name: 87 Atlantic Avenue, Groton



Photo #1:

Façade A



Photo #2:

Façade B

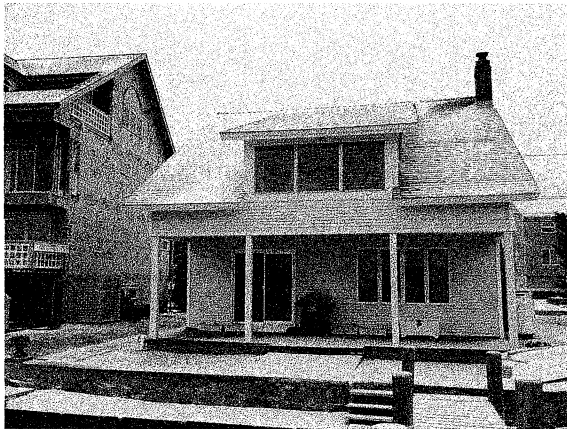


Photo #3:

Façade C

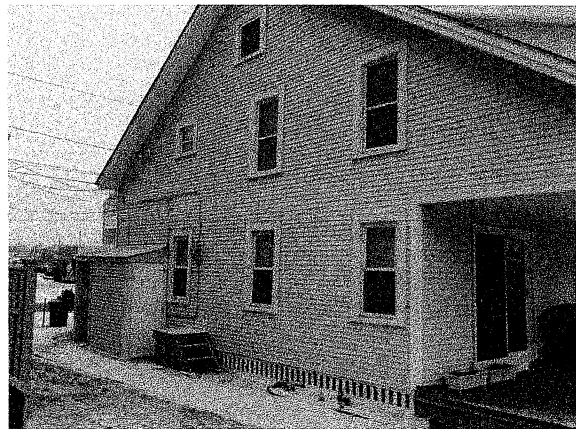


Photo #4:

Façade D

APPENDIX 4

INTERIOR AND EXTERIOR VISUAL ASSESSMENT FORMS



EXTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Side: "A" Side

[illegible]

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



EXTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Side: "B" Side

[illegible]

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



EXTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Side: "C" Side

[illegible]

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



EXTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Side: "D" Side

[illegible]

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



INTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 001 Work Rm

[illegible]

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



Address: 87 Atlantic Avenue, Groton

Room No: 002 Living Rm

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



EAGLE
Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 003 Dining Rm

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	hardwood varnished	
Wall	① ② ③ ④	① F P	sheetrock - up - low wood	
Ceiling	A B C D	① F P	hardwood	
Door	① ② ③ ④	① F P		
Door Casing	① ② ③ ④	① F P	cased opening "B"	
Door Jamb	① ② ③ ④	① F P	unpainted trim	
Baseboard	A B C D	I F P		
Window Casing	A B C ④	① F P		
Window Stop	A B C ④	① F P		
Window Jamb	A B C D	I F P	vinyl replacements	
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P	wood trim comp.	
Window Sill	A B C ④	① F P	unpainted	
Window Apron	A B C ④	① F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
sliding door	A B ③ D	① F P	vinyl	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



INTERIOR

Address: 87 Atlantic Avenue, Groton

Room No: 004 Kitchen

[illegible]

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



INTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 005 Bathroom

[illegible]

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



INTERIOR

Address: 87 Atlantic Avenue, Groton

Room No: 006 Office

[illegible]

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



Address: 87 Atlantic Avenue, Groton

[illegible]



INTERIOR

Address: 87 Atlantic Avenue, Groton

Room No: 008 Bed Z

[illegible]



EAGLE
Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 009 Enc. Porch

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	Carpet	Please see
Wall	Ⓐ Ⓑ Ⓒ Ⓓ	I F Ⓐ	Beadboard -XRF	
Ceiling	A B C D	I F Ⓐ	" " -XRF	
Door	Ⓐ B C D	I F Ⓐ	XRF	Scope of
Door Casing	Ⓐ B C D	I F Ⓐ	XRF	
Door Jamb	Ⓐ B C D	① F P	varnished	
Baseboard	A B C D	I F P		Work ↓
Window Casing	Ⓐ B C D	I F P	} Original wood Windows - XRF	
Window Stop	Ⓐ B C D	I F P		
Window Jamb	Ⓐ B C D	I F P		
Window Sash	Ⓐ B C D	I F P		
Window Well	Ⓐ B C D	I F P		
Window Sill	Ⓐ B C D	I F P		
Window Apron	Ⓐ B C D	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
	A B C D	I F P		
Entry	A B C D	I F P		
Door	Ⓐ B C D	I F Ⓐ	XRF	
Door threshold	Ⓐ B C D	I F Ⓐ	XRF	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



Address: 87 Atlantic Avenue, Groton

[illegible]



INTERIOR

Address: 87 Atlantic Avenue, Groton

Room No: 011 Bed 4

[illegible]

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



INTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 012 Bath[illegible]

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



EAGLE
Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 013 Laundry

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(1) F P	linoleum	
Wall	(A) (B) (C) (D)	(1) F P	3 sheetrock	
Ceiling	A B C D	(1) F P		
Door	A (B) C D	(1) F P	varnished wood	
Door Casing	A (B) C D	(1) F P		
Door Jamb	A (B) C D	(1) F P		
Baseboard	(A) (B) (C) (D)	(1) F P		
Window Casing	(A) B C D	(1) F P	unpainted trim	
Window Stop	(A) B C D	(1) F P	comp.	
Window Jamb	A B C D	I F P	storm window	
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	(A) B C D	(1) F P		
Window Apron	(A) B C D	(1) F P		
Closet Door	A B C (D)	(1) F P	unpainted	
Closet Door Casing	A B C (D)	(1) F P	comp.	
Closet Door Jamb	A B C (D)	(1) F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
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	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 87 Atlantic Avenue, Groton

Room No: 014 Hall/Stair

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	carpet	
Wall	① A B C D	① F P	varnished hardwood	
Ceiling	A B C D	① F P	" "	
Door	A B C D	I F P		
Door Casing	① A B C D	① F P	varnished wood	
Door Jamb	A B C D	I F P		
Baseboard	A B C D	I F P		
Window Casing	A B C D	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	① A B C D	① F P		
Closet Door Casing	① A B C D	① F P	unpainted	
Closet Door Jamb	① A B C D	① F P	components	
Closet Shelf	① A B C D	① F P		
Shelf Support	① A B C D	① F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Stair system:	A B C D	① F P	treads + risers	
	A B C D	I F P	are carpeted -	
	A B C D	I F P	stair rail system	
	A B C D	I F P	is varnished	
	A B C D	I F P	wood	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		

APPENDIX 5

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01509 - 01/26/15 11:26

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

PERFORMED AT: 87 Atlantic Avenue
Groton, CT

INSPECTION DATE: 01/26/15

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

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002206

A Lead-Based Paint Screen was performed for the building.

SIGNED: _____



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

Date: _____

1/26/15

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

Inspection Date: 01/26/15 87 Atlantic Avenue
 Report Date: 1/26/2015 Groton, CT
 Abatement Level: 1.0
 Report No. S#01509 - 01/26/15 11:26
 Total Readings: 31 Actionable: 22
 Job Started: 01/26/15 11:26
 Job Finished: 01/26/15 14:58

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 EnclsePorch									
004	-	Ceiling		Ctr	P	Wainscting	White	3.7	QM
006	A	Wall		Rgt	P	Wainscting	beige	1.8	QM
010	A	Window		Lft Casing	P	Wood	White	>9.9	QM
013	A	Window		Lft Jamb	I	Wood	White	7.2	QM
014	A	Window		Lft Stop	I	Wood	White	7.8	QM
012	A	Window		Lft Sash	P	Wood	White	2.7	QM
011	A	Window		Lft Sill	I	Wood	White	9.5	QM
019	A	Window		Rgt Casing	P	Wood	White	>9.9	QM
022	A	Window		Rgt Jamb	I	Wood	White	>9.9	QM
023	A	Window		Rgt Stop	I	Wood	White	3.2	QM
021	A	Window		Rgt Sash	I	Wood	White	8.6	QM
020	A	Window		Rgt Sill	I	Wood	White	>9.9	QM
015	A	Door		Ctr	I	Wood	White	4.1	QM
016	A	Door		Ctr Casing	P	Wood	White	>9.9	QM
017	A	Door		Ctr Stop	P	Wood	White	9.1	QM
018	A	Door		Ctr threshold	I	Wood	Gray	3.5	QM
007	B	Wall		Ctr	P	Wainscting	beige	1.6	QM
024	B	Window		Ctr Casing	P	Wood	White	7.9	QM
008	C	Wall	L	Ctr	P	Wainscting	beige	3.1	QM
027	C	Window		Rgt Casing	P	Wood	White	>9.9	QM
009	D	Wall		Ctr	P	Wainscting	beige	1.9	QM
028	D	Window		Ctr Casing	P	Wood	White	8.4	QM

Comment:

Floor- Carpet

Calibration Readings

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

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

Inspection Date: 01/26/15 87 Atlantic Avenue
 Report Date: 1/26/2015 Groton, CT
 Abatement Level: 1.0
 Report No. S#01509 - 01/26/15 11:26
 Total Readings: 31
 Job Started: 01/26/15 11:26
 Job Finished: 01/26/15 14:58

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 EnclsePorch									
005	-	Crown Mldg	Ctr		I	Wood	beige	0.6	QM
004	-	Ceiling	Ctr		P	Wainscting	White	3.7	QM
006	A	Wall	Rgt		P	Wainscting	beige	1.8	QM
010	A	Window	Lft	Casing	P	Wood	White	>9.9	QM
013	A	Window	Lft	Jamb	I	Wood	White	7.2	QM
014	A	Window	Lft	Stop	I	Wood	White	7.8	QM
012	A	Window	Lft	Sash	P	Wood	White	2.7	QM
011	A	Window	Lft	Sill	I	Wood	White	9.5	QM
019	A	Window	Rgt	Casing	P	Wood	White	>9.9	QM
022	A	Window	Rgt	Jamb	I	Wood	White	>9.9	QM
023	A	Window	Rgt	Stop	I	Wood	White	3.2	QM
021	A	Window	Rgt	Sash	I	Wood	White	8.6	QM
020	A	Window	Rgt	Sill	I	Wood	White	>9.9	QM
015	A	Door	Ctr		I	Wood	White	4.1	QM
016	A	Door	Ctr	Casing	P	Wood	White	>9.9	QM
017	A	Door	Ctr	Stop	P	Wood	White	9.1	QM
018	A	Door	Ctr	threshold	I	Wood	Gray	3.5	QM
007	B	Wall	Ctr		P	Wainscting	beige	1.6	QM
024	B	Window	Ctr	Casing	P	Wood	White	7.9	QM
008	C	Wall	L Ctr		P	Wainscting	beige	3.1	QM
025	C	Window	Lft	Sill	I	Wood	White	0.1	QM
027	C	Window	Rgt	Casing	P	Wood	White	>9.9	QM
026	C	Window	Rgt	Sill	I	Wood	White	0.0	QM
009	D	Wall	Ctr		P	Wainscting	beige	1.9	QM
028	D	Window	Ctr	Casing	P	Wood	White	8.4	QM

Comment:

Floor- Carpet

Calibration Readings

001	1.1	TC
002	1.0	TC
003	1.0	TC
029	1.1	TC
030	1.2	TC
031	1.0	TC

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

APPENDIX 6

LEAD DUST SAMPLE LABORATORY REPORTS



www.emsl.com

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

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

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

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

Your Name: Brandy LeBlanc **Project Manager:** PF
Company: Eagle Environmental, Inc.
Street: 8 South Main Street, Suite 3
City/State/Zip: Terryville, CT 06786
Phone: 860-589-8257 ext. 108 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; dwynne@eagleenviro.com; rsloch@eagleenviro.com
Project Name: CSA - Environmental Assessment **Project #:** 15-015.10T2
Project Location: 87 Atlantic Avenue, Groton **Project State (US):** CT

TURNAROUND TIME

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

SAMPLE MATRIX

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

ASBESTOS ANALYSIS

PCM - Air

☐ NIOSH 7400 (A) Issue 2: August 1994
☐ OSHA w/TWA

TEM AIR

☐ AHERA 40 CFR, Part 763 Subpart E
☐ NIOSH 7402 Issue 2
☐ EPA Level II

PLM - Bulk

☐ EPA 600/R-93/116
☐ NY Stratified Point Count
☐ California Air Resource Board (CARB) 435
☐ NIOSH 9002
☐ PLM NOB (Gravimetric) NYS 198.1
☐ EPA Point Count (400 Points)
☐ EPA Point Count (1,000 Points)
☐ Standard Addition Point Count

SOILS

☐ EPA Protocol Qualitative
☐ EPA Protocol Quantitative
☐ EMSL MSD 9000 Method fibers/gram
☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK

☐ Drop Mount (Qualitative)
☐ Chatfield SOP-1988-02
☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

☐ ASTM D 5755-95 (Quantitative)

TEM WIPE

☐ ASTM D-6480-99
☐ Qualitative

TEM WATER

☐ EPA 100.1
☐ EPA 100.2
☐ NYS 198.2
☐ Other

LEAD ANALYSIS

Flame Atomic Absorption

☒ Wipe, SW846-7420 ☒ ASTM ☐ non ASTM
☐ Soil, SW846-7420
☐ Air, NIOSH 7082
☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
☐ Wastewater, SW 846-7420
☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

☐ Air, NIOSH 7105
☐ Wastewater, SW846-7421
☐ Soil, SW846-7421
☐ Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
☐ Soil, SW846-6010
☐ Air, NIOSH 7300

MATERIALS ANALYSIS

☐ Full Particle Identification
☐ Optical Particle Identification
☐ Dust Mites and Insect Fragments
☐ Particle Size & Distribution
☐ Product Comparison
☐ Paint Characterization
☐ Failure Analysis
☐ Corrosion Analysis
☐ Glove Box Containment Study
☐ Petrographic Examination of Concrete
☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
☐ Man Made Vitreous Fibers - MMVF's
☐ Synthetic Fiber Identification
☐ Other

MICROBIAL ANALYSIS

Air Samples

☐ Mold & Fungi by Air O Cell
☐ Mold & Fungi by Agar Plate count & id
☐ Bacterial Count and Gram Stain
☐ Bacterial Count and Identification

Water Samples

☐ Total Coliforms, Fecal Coliforms
☐ Escherichia Coli, Fecal Streptococcus
☐ Legionella

Salmonella

☐ Salmonella
☐ Giardia and Cryptosporidium

Wipe and Bulk Samples

☐ Mold & Fungi - Direct Examination
☐ Mold & Fungi - (Culture follow up to direct examination if necessary)
☐ Mold & Fungi - Culture (Count & ID)
☐ Mold & Fungi - Culture (Count Only)
☐ Bacterial Count & Gram Stain
☐ Bacterial Count & Identification (3 most prominent types)
☐ Other

IAQ ANALYSIS

☐ Nuisance Dust (NIOSH 0500 & 0600)
☐ Airborne Dust (PM10, TSP)
☐ Silica Analysis by XRD ☐ NIOSH 7500
☐ HVAC Efficiency
☐ Carbon Black
☐ Airborne Oil Mist
☐ Other

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

Client Sample # (S)	1/26 KD 01	1/26 KD 10	TOTAL SAMPLE #
Relinquished:	<i>[Signature]</i>	<i>[Signature]</i>	10
Received:	<i>[Signature]</i>	<i>[Signature]</i>	1-26-15
Relinquished:	<i>[Signature]</i>	<i>[Signature]</i>	1-26-15
Received:	<i>[Signature]</i>	<i>[Signature]</i>	1-28-15
		1/29/15	11:20 AM

FX 7901 2902 1968

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

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

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

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

~~03502520~~

EMSL MANHATTAN LAB
RECEIVED
15 JAN 29 AM 11:20

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

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

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

EMSL Order: 031502520
CustomerID: EEVM50
CustomerPO: 15-015.10T2
ProjectID:

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

Phone: (860) 589-8257
Fax: (860) 585-7034
Received: 01/29/15 11:20 AM
Collected: 1/26/2015

Project: 15-015.10T2/ CSA - ENVIRONMENTAL ASSESSMENT/ 87 ATLANTIC AVENUE, GROTON, CT

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
1/26 KD 01	031502520-0001	1/26/2015	1/29/2015	144 in ²	12 µg/ft ²
Site: FLOOR AT ENTRY/ KITCHEN FOYER					
1/26 KD 02	031502520-0002	1/26/2015	1/29/2015	54 in ²	70 µg/ft ²
Site: WINDOW SILL/ KITCHEN FOYER					
1/26 KD 03	031502520-0003	1/26/2015	1/29/2015	144 in ²	<10 µg/ft ²
Site: FLOOR AT ENTRY/ DINING RM					
1/26 KD 04	031502520-0004	1/26/2015	1/29/2015	72 in ²	32 µg/ft ²
Site: WINDOW WELL/ DINING RM					
1/26 KD 05	031502520-0005	1/26/2015	1/29/2015	144 in ²	<10 µg/ft ²
Site: FLOOR/ BED 2					
1/26 KD 06	031502520-0006	1/26/2015	1/29/2015	81.75 in ²	100 µg/ft ²
Site: WINDOW SILL/ BED 2					
1/26 KD 07	031502520-0007	1/26/2015	1/29/2015	144 in ²	<10 µg/ft ²
Site: FLOOR/ BED					
1/26 KD 08	031502520-0008	1/26/2015	1/29/2015	122 in ²	20 µg/ft ²
Site: WINDOW					
1/26 KD 09	031502520-0009	1/26/2015	1/29/2015	n/a	<10 µg/wipe
Site: FIELD BLANK					
1/26 KD 10	031502520-0010	1/26/2015	1/29/2015	n/a	<10 µg/wipe
Site: FIELD BLANK					

Miron Apfeldorfer, Laboratory Manager
or other approved signatory

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

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

Initial report from 01/29/2015 16:26:40

APPENDIX 7

RADON TESTING REPORTS

Radon sampling was not performed at the time of inspection as the building is scheduled to be elevated and the lowest level of the building will not be in contact with the ground.

APPENDIX 8

MOLD INSPECTION FORMS



MOLD OBSERVATION FORM

Eagle Project No: 15-015.1012 Date: 1/26/15 Inspector: KD/EL

Facility Address: 87 Atlantic Avenue, Gorton

Location	Observation	Sample Number
Throughout Interiors	There was no visible evidence of water intrusion, damage, staining or microbial growth on any surfaces. Extensive renovations were performed on the first floor of the dwelling after it flooded from Hurricane Sandy. The only damage identified was in the Enclosed Porch (009); however, the damage did not occur as a result from the Storm Event.	

APPENDIX 9

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES

APPLICATION NO. 2184

87 ATLANTIC AVENUE

GROTON, CONNECTICUT

LEAD BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	\$ 13,500.00 EACH	\$ 13,500.00
SUBTOTAL			\$ 13,500.00
LEAD RENOVATION CONTINGENCY			<u>\$ 2,700.00</u>
LEAD RENOVATION TOTAL			\$ 16,200.00

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
HAZARDOUS MATERIALS CONSULTING CONTIN.	1	\$3,200.00 EACH	\$ 3,200.00
SUBTOTAL			\$ 3,200.00
CONSULTING	CONTINGENCY		<u>\$ 320.00</u>
CONSULTING TOTAL			\$ 3,520.00

<u>GRAND TOTAL</u>	\$ 19,720.00
---------------------------	---------------------

APPENDIX 10

EAGLE ENVIRONMENTAL, INC. LICENSES

AND LABORATORY CERTIFICATES

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

LEAD CONSULTANT CONTRACTOR

EAGLE ENVIRONMENTAL INC.

LICENSE NO.

001723

CURRENT THROUGH

04/30/15

VALIDATION NO.

03-794089

SIGNATURE

COMMISSIONER

Certificate of Training

Awarded to

ELIWAUN LAWRENCE

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

Asbestos Building Inspector

Annual Refresher Training

January 5, 2015

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

Presented by

Mystic Air Quality Consultants, Inc.

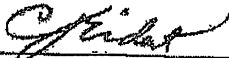
1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: ABIRF23634

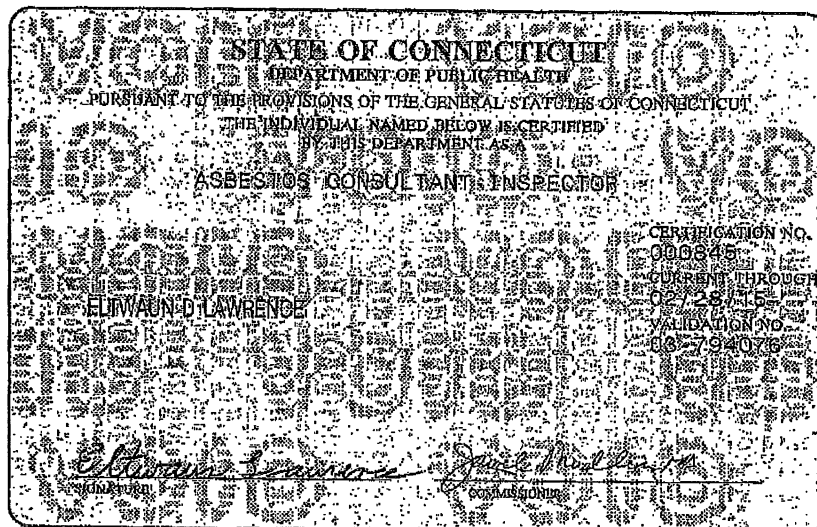
Exam Grade: 85

Expiration Date: 01/05/2016

Exam Date: 01/05/2015


Christopher J. Eident, CIH, CSP, RS


George Williamson, Training Director
Richard Haffey, Training Director



ENVIRONMENTAL TRAINING AND ASSESSMENT

Certificate of Completion *Lead Inspector/Risk Assessor — Refresher*

Awarded To

Kristen DeFrance

1233 Millbrook Road
Middletown, CT 06457

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

Course Date: 1/5/2015
Examination Date: 1/5/2015

Examination Grade: 96%
Certificate Number: LI/RAR-00372
Expiration Date: 1/5/2016


Stephen J. Craig, Training Manager

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

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
LEAD INSPECTOR/RISK ASSESSOR

KRISTEN P DEFRANCE

CERTIFICATE NO.
002206

CURRENT THROUGH
12/31/15

VALIDATION NO.
03-148105


SIGNATURE


COMMISSIONER

ENVIRONMENTAL TRAINING AND ASSESSMENT

Certificate of Completion

Lead Planner-Project Designer — Refresher

Awarded To

Kristen DeFrance
8 South Main Street
Terryville, CT 06786

Has successfully completed, and passed an examination covering the contents of the Eight (8) Hour Refresher Training Course for Lead Planner-Project Designer in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes. Approved under the New Standard.

Course Date: 1/6/2015 Examination Grade: 86%
Examination Date: 1/6/2015 Certificate Number: LPPDR-00184
Expiration Date: 1/6/2016

Stephen J. Craig
Stephen J. Craig, Training Manager

Boston Lead Company, LLC
dba
Environmental Training and Assessment
62 Washington Street
Middletown, CT 06426
860-347-7277

STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
LEAD PLANNER/PROJECT DESIGNER

KRISTEN P DEFRANCE

CERTIFICATE NO.
002153

CURRENT THROUGH
12/31/15

VALIDATION NO.
03-148106

Kristen DeFrance
SIGNATURE

James Malley
COMMISSIONER