

To: Peter Folino, Eagle Environmental, Inc.  
From: Martin Brogie  
Date: March 2, 2015  
Re: National Environmental Policy Act (NEPA) Statutory Checklist

**50 Mumford Cove Road  
Groton, CT  
Project No. 1403900-2-1000**

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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. A survey should be performed to confirm whether the elevation of the property within the project footprint falls within the Coastal Jurisdiction Zone. Complete consultation and asbestos microbial 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 are attached.

If you have any questions, please feel free to contact me at 860.368.5408.

Sincerely,

GEI CONSULTANTS, INC.



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Martin Brogie, LEP  
Senior Consultant

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**PHOTO LOG**

NEPA Statutory Checklist  
50 Mumford Cove Rd  
Groton, CT 06340

Photo 1: Front of property; looking E.



Photo 2: Southern side of property; looking N.



Photo 3: Boat launch, floating dock, and seawall; looking N



Photo 4: Seawall and adjacent marina on Palmer Cove; looking S.



Photo 5: Northern side of property; looking E.



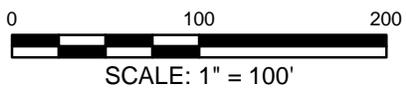
Photo 6: Barn structure on upland most edge of property; residence is in the background. Looking E.



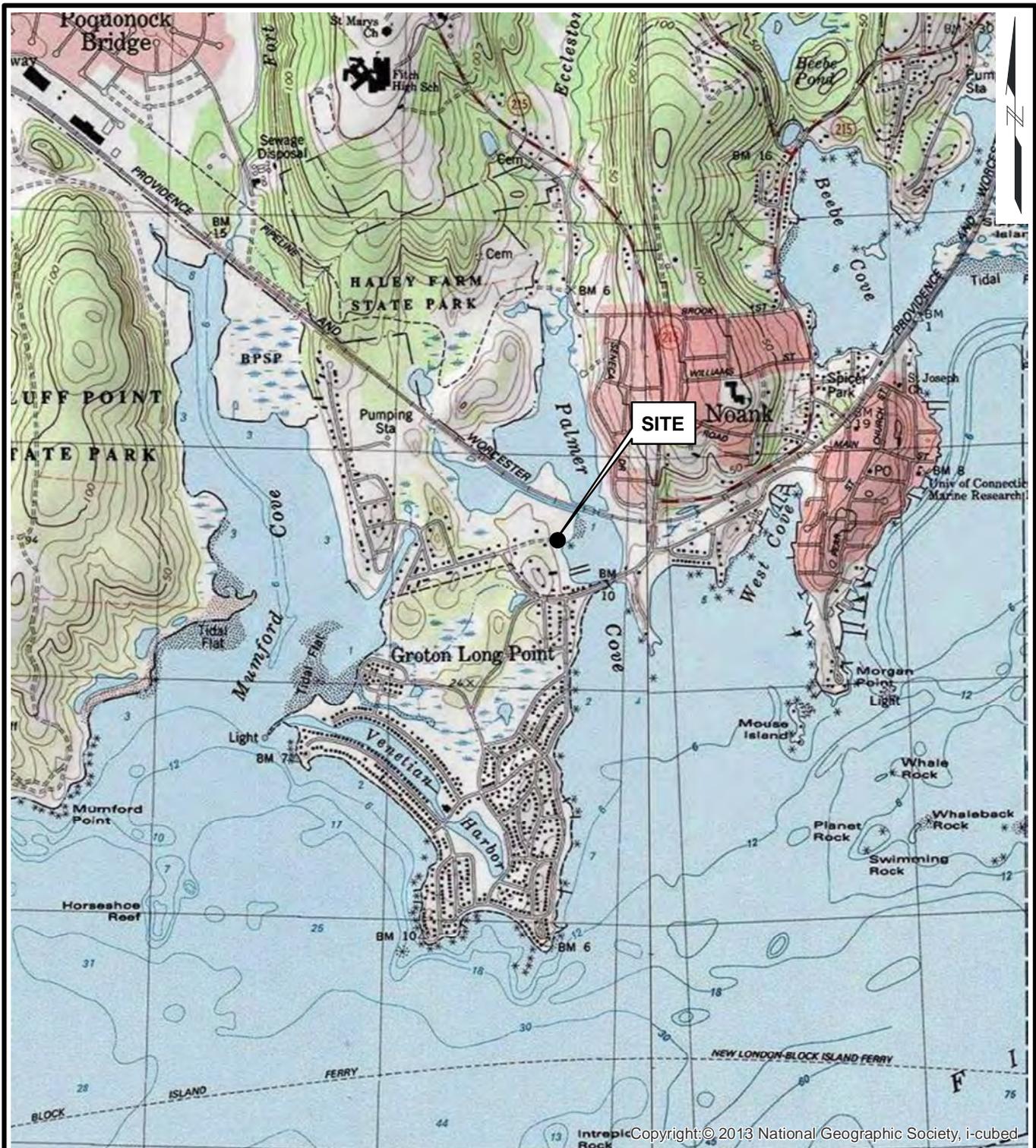


Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**SOURCE:**  
1. 2011 ESRI WORLD IMAGERY

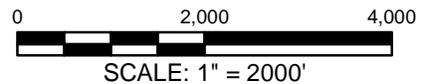


<p>National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment 50 Mumford Cove Rd Groton, Connecticut</p>		<p><b>SITE DETAIL</b></p>
<p>Eagle Environmental, Inc. Terryville, Connecticut</p>	<p>Project 1403900</p>	<p>February 2015 <span style="float: right;">Fig. 1</span></p>



**SOURCE:**

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



National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment  
50 Mumford Cove Rd  
Groton, Connecticut

Eagle Environmental, Inc.  
Terryville, Connecticut

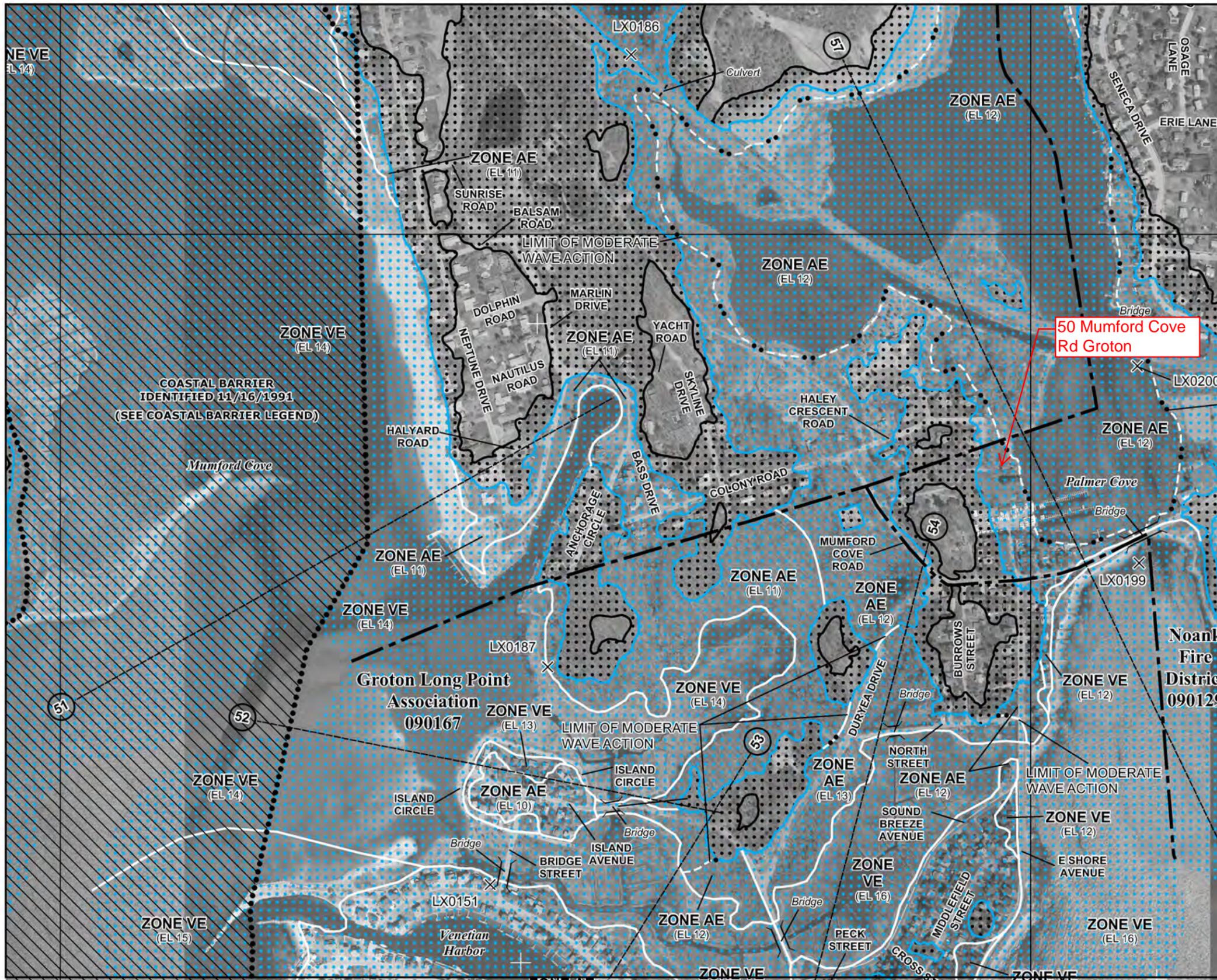


**USGS TOPOGRAPHIC MAP**

Project 1403900

February 2015

Fig. 2





MAP SCALE 1" = 500'

250 0 500 1000 FEET

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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 1982 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.

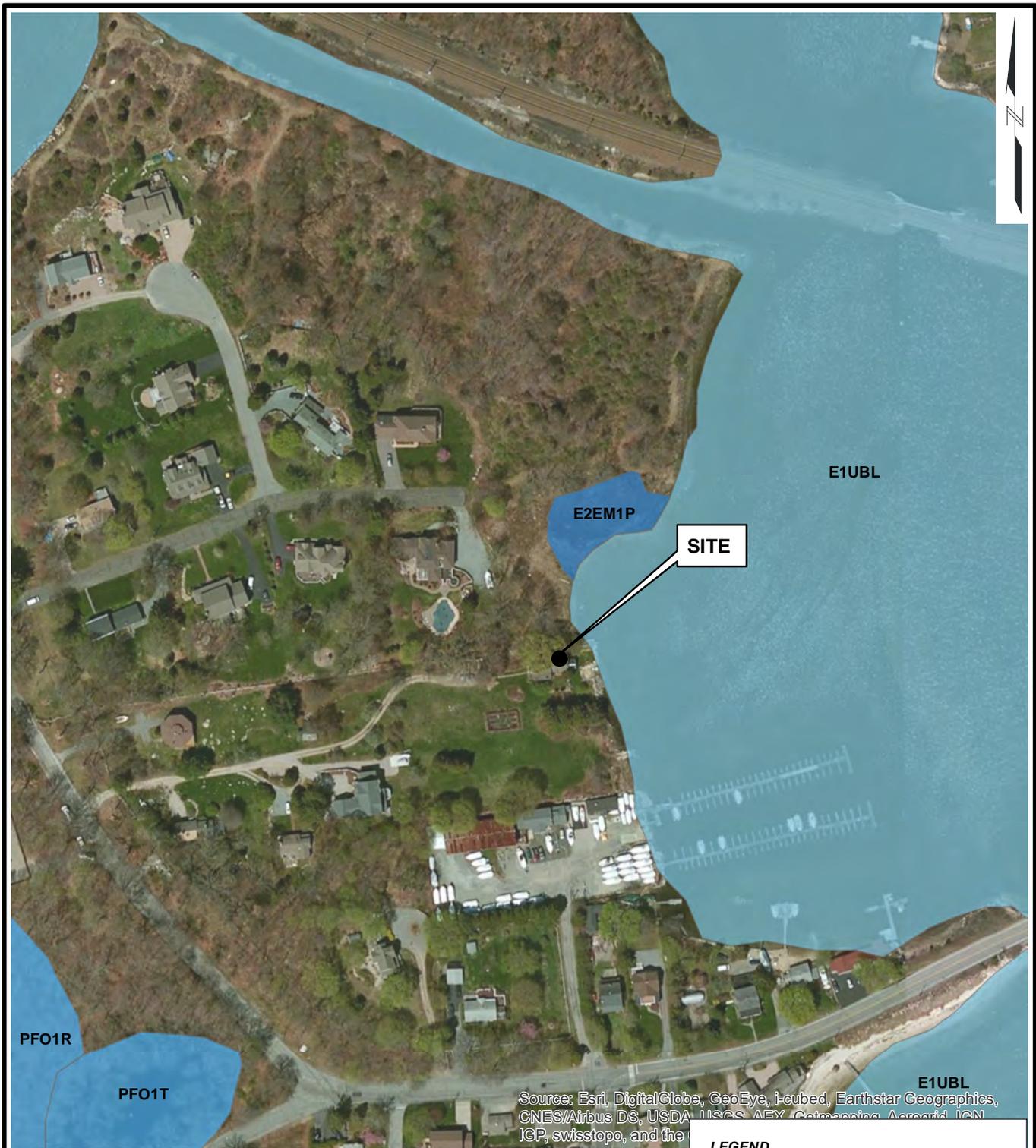


**MAP NUMBER**  
09011C0509J

**MAP REVISED**  
AUGUST 5, 2013

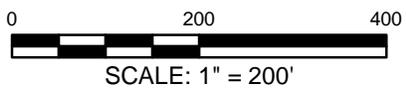
Federal Emergency Management Agency

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](http://www.msc.fema.gov)



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroVIG, GeoEye, IGN, IGP, swisstopo, and the

**SOURCE:**  
 1. 2012 US FISH AND WILDLIFE (USFWS) NATIONAL WETLANDS INVENTORY  
 WWW.FWS.GOV/WETLANDS



**LEGEND**

**Wetland Type**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment  
 50 Mumford Cove Road  
 Groton, Connecticut



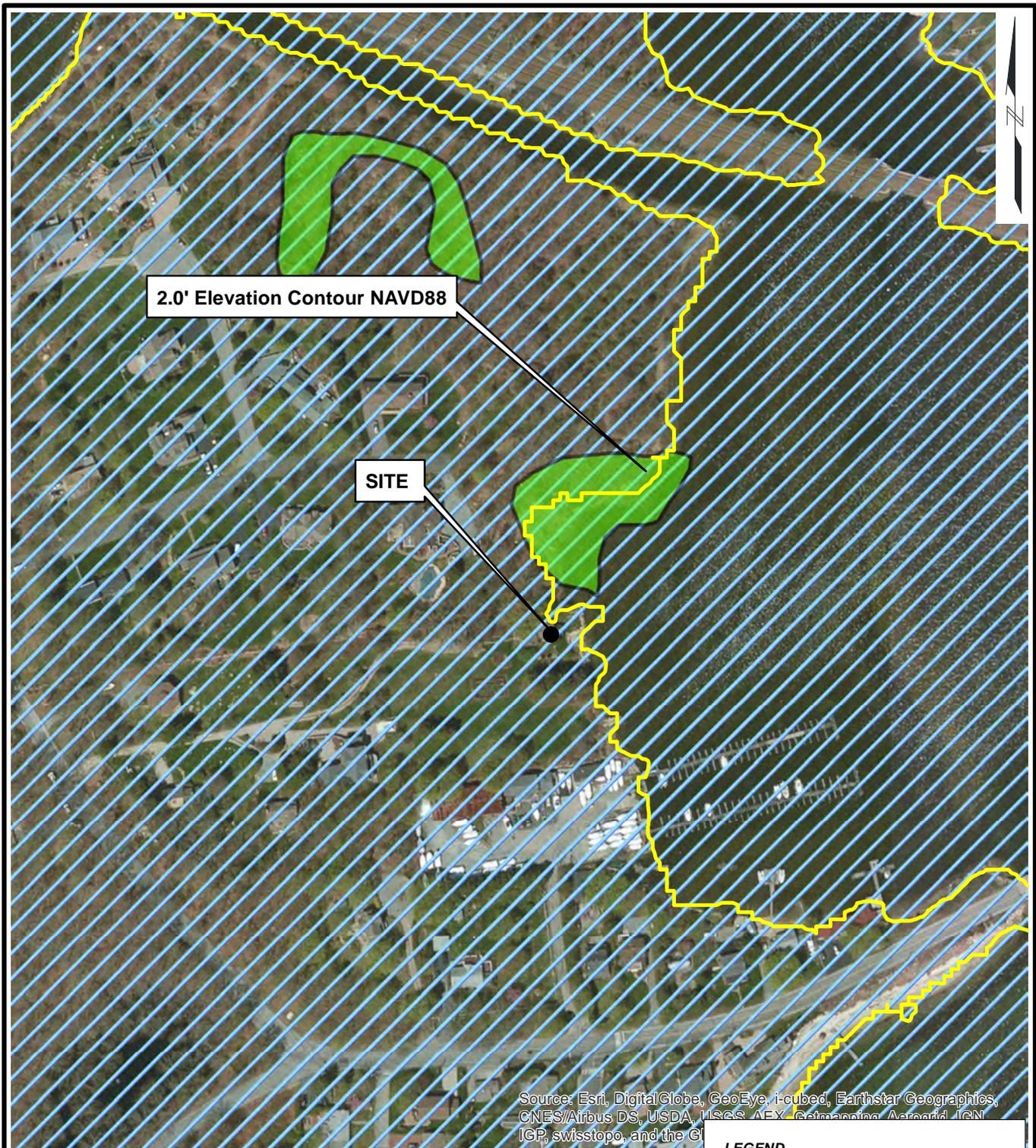
**NATIONAL WETLANDS INVENTORY (NWI)**

Eagle Environmental, Inc.  
 Terryville, Connecticut

Project 1403900

February 2015

Fig. 4



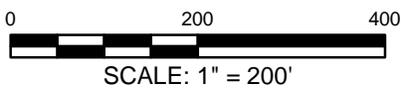
2.0' Elevation Contour NAVD88

SITE

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerotri, IGN, IGP, swisstopo, and the G

**SOURCE:**

1. TIDAL WETLANDS (1990s)/COASTAL AREAS FROM CT DEEP GIS.
2. TOWN 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 Checklist and Environmental Assessment  
 50 Mumford Cove Road  
 Groton, Connecticut

Eagle Environmental, Inc.  
 Terryville, Connecticut



Project 1403900

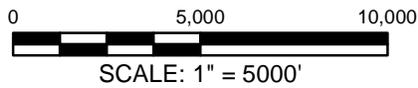
**COASTAL RESOURCES**

February 2015

Fig. 5



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



**LEGEND**

-  Final Adopted Aquifer
-  Final Aquifer Protection

National Environmental Policy Act (NEPA) Statutory  
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 Groton, Connecticut

Eagle Environmental, Inc.  
 Terryville, Connecticut

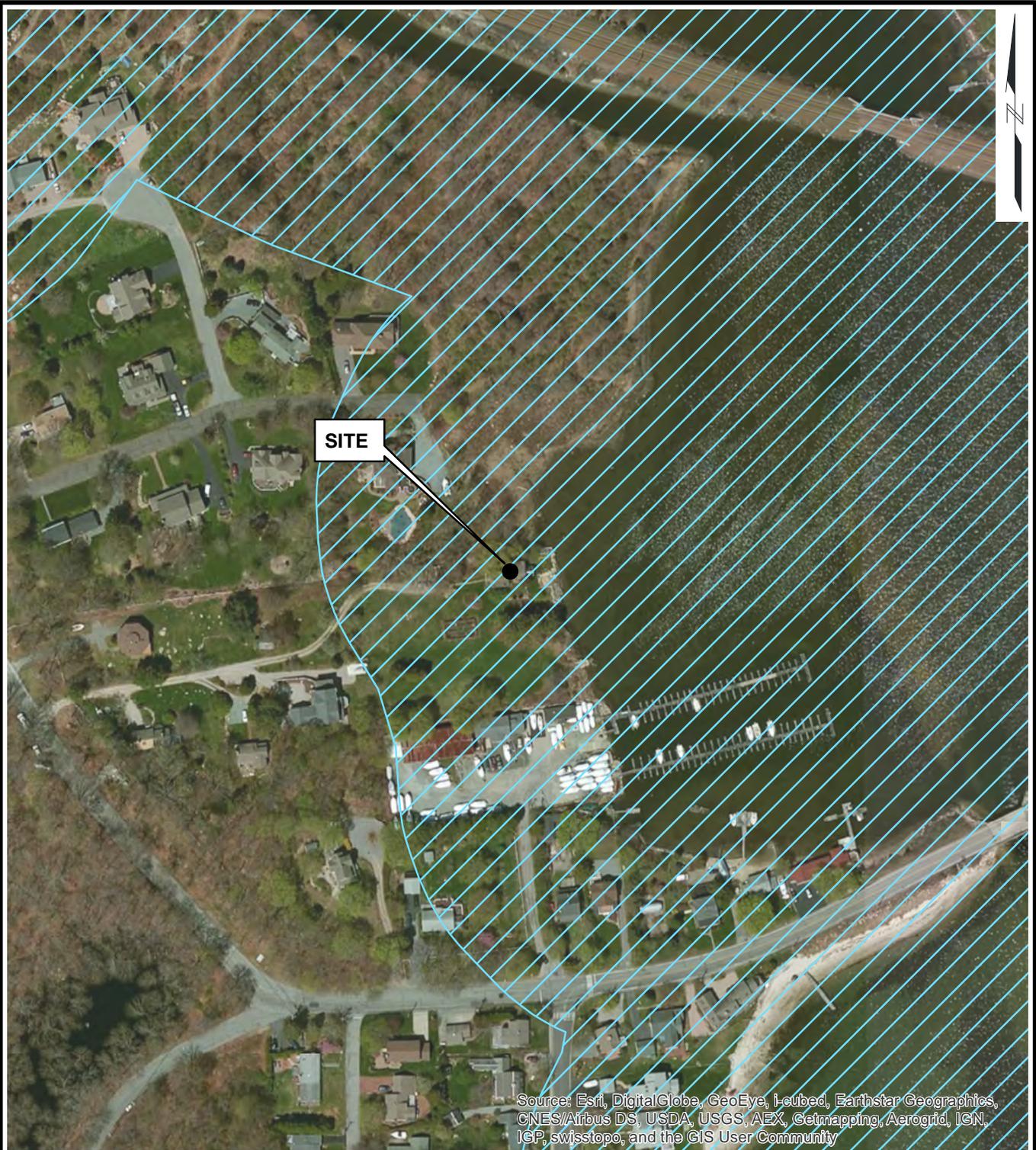


Project 1403900

**AQUIFER PROTECTION  
 AREA**

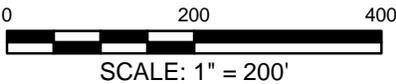
February 2015

Fig. 6



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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



**LEGEND**

 Natural Diversity Area

National Environmental Policy Act (NEPA) Statutory  
Checklist and Environmental Assessment  
50 Mumford Cove Rd  
Groton, Connecticut

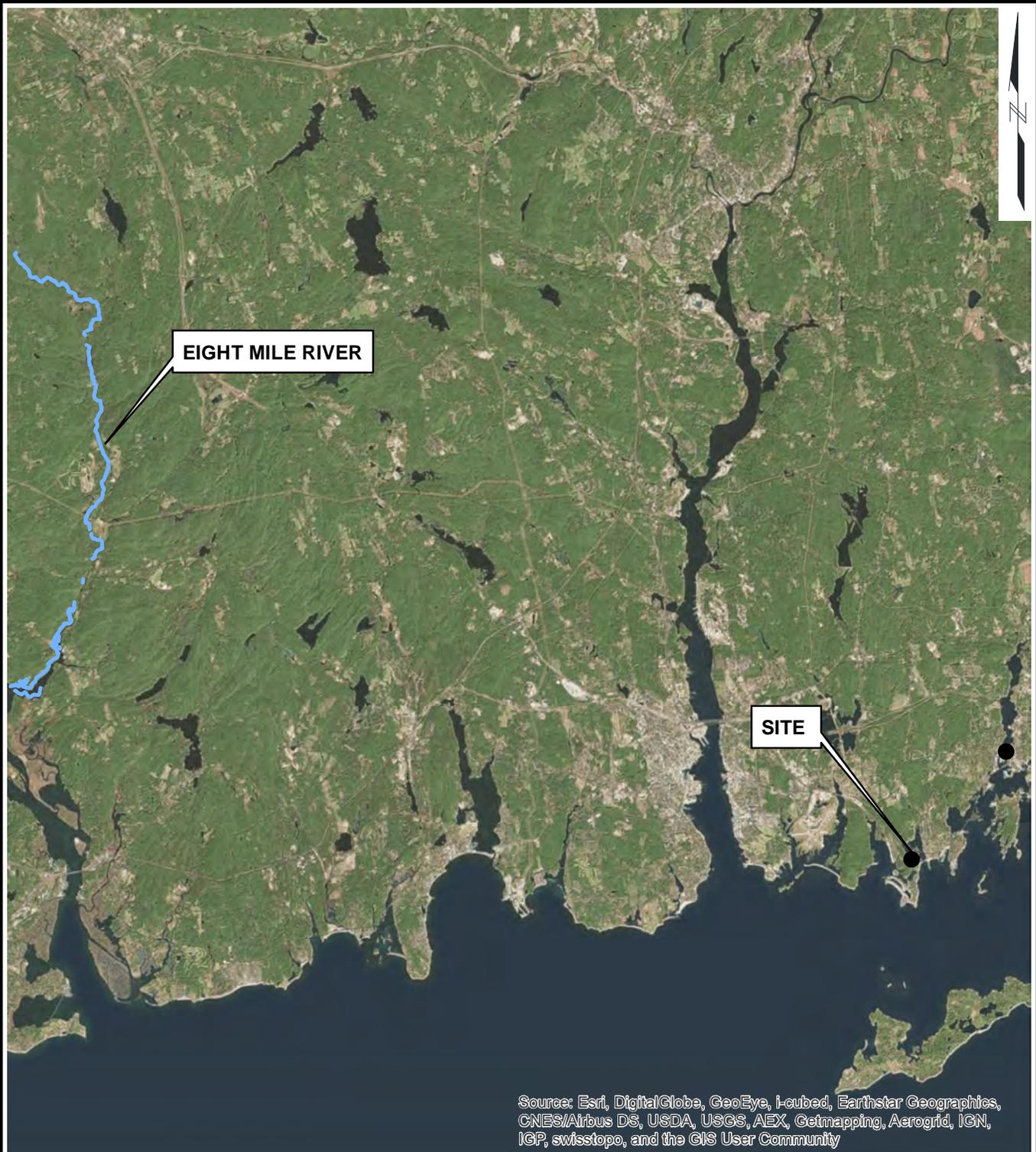
Eagle Environmental, Inc.  
Terryville, Connecticut



Project 1403900

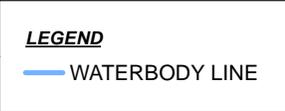
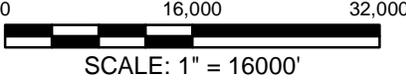
**NATURAL DIVERSITY  
DATABASE AREA AND  
CRITICAL HABITAT**

February 2015 Fig. 7



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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



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

Eagle Environmental, Inc.  
 Terryville, Connecticut

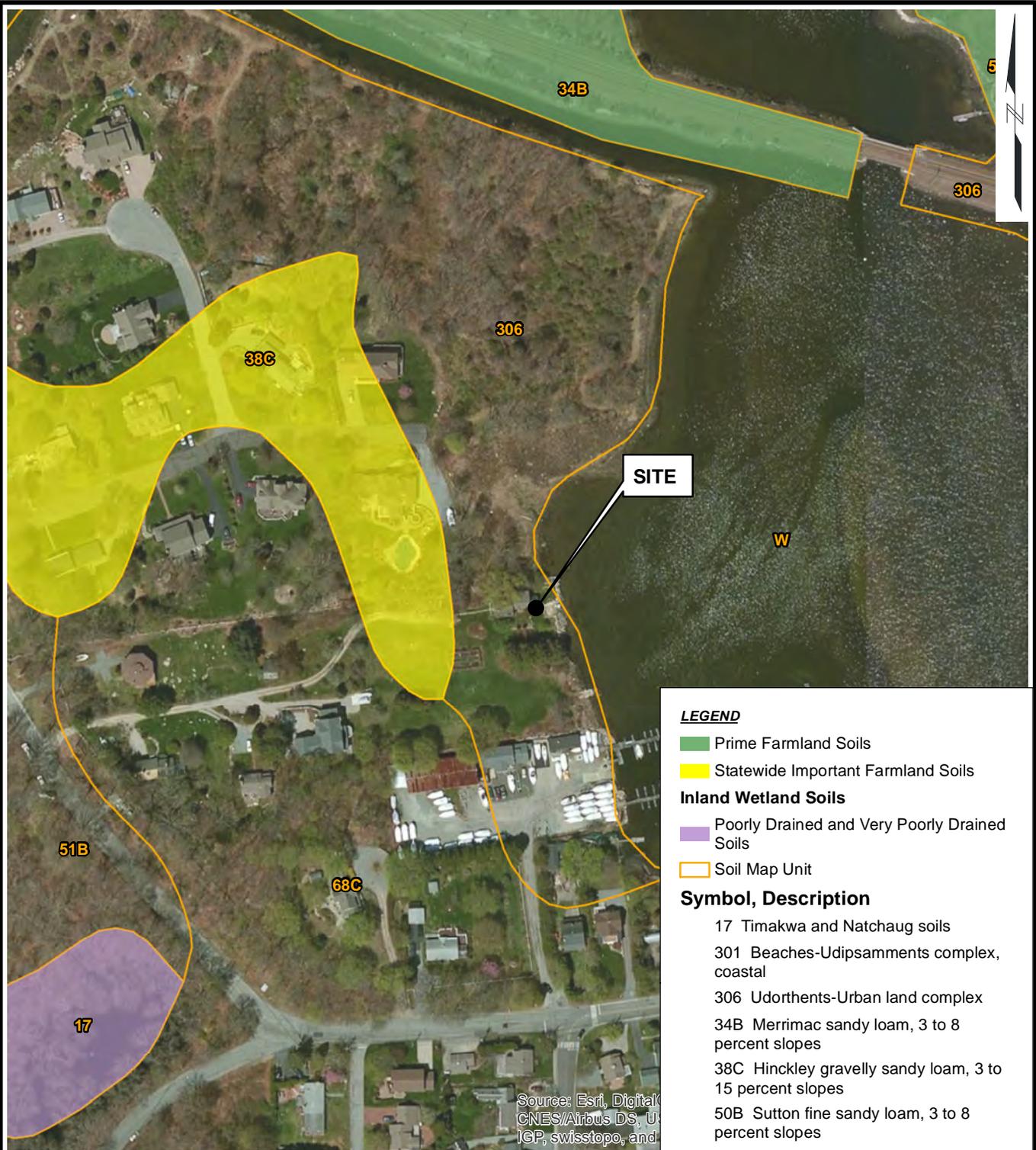


Project 1403900

**DISTANCE TO WILD AND SCENIC RIVER**

February 2015

Fig. 8



**LEGEND**

- Prime Farmland Soils
- Statewide Important Farmland Soils

**Inland Wetland Soils**

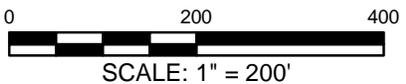
- Poorly Drained and Very Poorly Drained Soils
- Soil Map Unit

**Symbol, Description**

- 17 Timakwa and Natchaug soils
- 301 Beaches-Udipsamments complex, coastal
- 306 Udorthents-Urban land complex
- 34B Merrimac sandy loam, 3 to 8 percent slopes
- 38C Hinckley gravelly sandy loam, 3 to 15 percent slopes
- 50B Sutton fine sandy loam, 3 to 8 percent slopes
- 51B Sutton fine sandy loam, 2 to 8 percent slopes, very stony
- 68C Narragansett silt loam, 3 to 15 percent slopes, extremely stony
- W Water

**SOURCE:**

1. NRCS Soil Survey Geographic (SSURGO) database for the State of Connecticut, CT DEEP GIS



Source: Esri, DigitalGlobe, GeoEye, IGN, CNES/Airbus DS, USDA, AeroGRID, IGN, IGP, swisstopo, and others

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment  
 50 Mumford Cove Road  
 Groton, Connecticut

Eagle Environmental, Inc.  
 Terryville, Connecticut



Project 1403900

**NRCS SOILS**

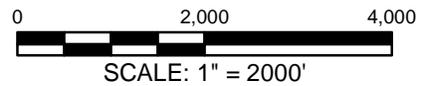
February 2015

Fig. 9



**SOURCE:**

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



National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment  
 50 Mumford Cove Rd  
 Groton, Connecticut

Eagle Environmental, Inc.  
 Terryville, Connecticut



Project 1403900

**PROXIMITY TO AIRPORT**

February 2015

Fig. 10

1743  
JO



Department of Economic and  
Community Development

Connecticut  
*still revolutionary*

August 11, 2014

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

received  
8-21-14

Subject: 50 Mumford Cove Road  
Groton, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named property pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966.

It is our opinion that the property located at 50 Mumford Cove Road does not appear to be eligible for listing on the National Register of Historic Places. Based on the information provided to this office, no historic properties will be affected.

This letter supersedes all previous correspondence.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act and Section 106 of the National Historic Preservation Act. For further information please contact Todd Levine, Environmental Reviewer, at (860) 256-2759 or [todd.levine@ct.gov](mailto:todd.levine@ct.gov).

Sincerely,

Mary B. Dunne  
Deputy State Historic Preservation Officer

State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | [Cultureandtourism.org](http://Cultureandtourism.org)

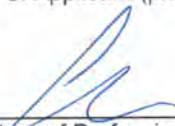
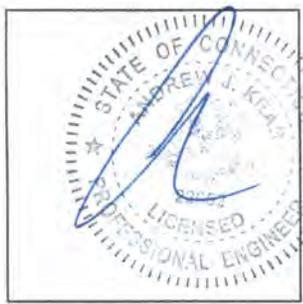
*An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender*

# 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: 50 MUMFORD COVE ROAD 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	June 23, 2014
Name of Applicant (print or type)	Date
	June 23, 2014
Signature of Professional Engineer	Date
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 3301  
PHONE: (603)223-2541 FAX: (603)223-0104  
URL: [www.fws.gov/newengland](http://www.fws.gov/newengland)

Consultation Tracking Number: 05E1NE00-2014-SLI-0359

June 04, 2014

Project Name: #1743 50 Mumford Cove Rd Groton

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](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: #1743 50 Mumford Cove Rd Groton

## Official Species List

### Provided by:

New England Ecological Services Field Office

70 COMMERCIAL STREET, SUITE 300

CONCORD, NH 3301

(603) 223-2541

<http://www.fws.gov/newengland>

**Consultation Tracking Number:** 05E1NE00-2014-SLI-0359

**Project Type:** \*\* Other \*\*

**Project Description:** Residential Rehab. Seawall repair. Raise residence to proper elevation.



United States Department of Interior  
Fish and Wildlife Service

Project name: #1743 50 Mumford Cove Rd Groton

### Project Location Map:



**Project Location Measurements:** Area : 1.0 ac., Length : 0.2 mi.

**Project Coordinates:** MULTIPOLYGON (((-72.0039186 41.3217457, -72.0038355 41.3213891, -72.0054448 41.3213107, -72.0054741 41.3216108, -72.0039186 41.3217457)))

**Project Counties:** New London, CT



United States Department of Interior  
Fish and Wildlife Service

Project name: #1743 50 Mumford Cove Rd Groton

## Endangered Species Act Species List

There are a total of 0 threatened, endangered, or candidate 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 on the **Has Critical Habitat** lines 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.

There are no listed species identified for the vicinity of your project.



United States Department of Interior  
Fish and Wildlife Service

Project name: #1743 50 Mumford Cove Rd Groton

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.



# DATABASE REPORT



**Project Property:** 50 Mumford Cove Road, Groton, CT  
50 Mumford Cove Road  
Groton CT

**Report Type:** Screen Report

**Order #:** 20140402032

**Requested by:** GEI Consultants Inc.

**Date:** April 4, 2014

**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.

**License for use of information in Report:** No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

**Your Liability for misuse:** Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

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# Executive Summary

## Property Information:

**Project Property:** 50 Mumford Cove Road, Groton, CT  
50 Mumford Cove Road Groton CT

### **Coordinates:**

**Latitude:** 41.320683  
**Longitude:** -72.006059  
**UTM Northing:** 4,578,681.87  
**UTM Easting:** 750,585.50  
**UTM Zone:** UTM Zone 18T

**Elevation:** 15 FT

## Order Information:

**Order No.:** 20140402032  
**Date Requested:** 04/04/2014  
**Requested by:** GEI Consultants Inc.  
**Report Type:** Screen Report

## Ancillary Products:

# Executive Summary: Report Summary

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

## Tribal

Database	Searched	Project Property	Within 0.125mi	Total
<a href="#">ILST</a>	Y	0	0	0
<a href="#">IUST</a>	Y	0	0	0
<a href="#">INDIAN VCP</a>	Y	0	0	0

**County**

**Additional Environmental Records**

**Federal**

<a href="#">FINDS/FRS</a>	Y	0	1	1
<a href="#">TRIS</a>	Y	0	0	0
<a href="#">HMIRS</a>	Y	0	0	0
<a href="#">NCDL</a>	Y	0	0	0
<a href="#">ODI</a>	Y	0	0	0
<a href="#">IODI</a>	Y	0	0	0

**State**

<a href="#">LIENS</a>	Y	0	0	0
<a href="#">CT PROPERTY</a>	Y	0	0	0
<a href="#">SPILLS</a>	Y	0	2	2
<a href="#">CT MANIFEST</a>	Y	0	0	0
<a href="#">CT MANIFEST TSDF</a>	Y	0	0	0
<a href="#">CT HAZ HANDLERS</a>	Y	0	0	0

**Tribal**

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

**County**

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**Total:** 0 4 4

The SWF/LF database was searched out to 1 mile, no records were found.

# Executive Summary: Site Report Summary – Project Property

<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>
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No records found in the selected databases for the project property.

# 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>
<a href="#">1</a>	FINDS/FRS	MARINA ON PALMER COVE LLC	1023 GROTON LONG POINT RD. GROTON CT 06340-5698	ESE/0.09	1	<a href="#">10</a>
<a href="#">1</a>	SPILLS		Noank 1023 Groton Long Point Road GROTON CT 06340-5698	ESE/0.09	1	<a href="#">10</a>
<a href="#">1</a>	SPILLS		1023 Groton Long Point Rd Groton CT 06340-5698	ESE/0.09	1	<a href="#">12</a>
<a href="#">1</a>	UST	PALMER COVE MARINA	1023 GROTON LONG PT RD Groton CT 06340	ESE/0.09	1	<a href="#">13</a>

# Executive Summary: Summary by Data Source

## Non Standard

### Federal

#### FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Dec 5, 2013 has found that there are 1 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>
MARINA ON PALMER COVE LLC	1023 GROTON LONG POINT RD. GROTON CT 06340-5698	ESE	0.09	1

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
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#### SPILLS - Spill Incident Tracking System (SITS)

A search of the SPILLS database, dated JUL 17, 2013 has found that there are 2 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>
	Noank 1023 Groton Long Point Road GROTON CT 06340-5698	ESE	0.09	1
	1023 Groton Long Point Rd Groton CT 06340-5698	ESE	0.09	1

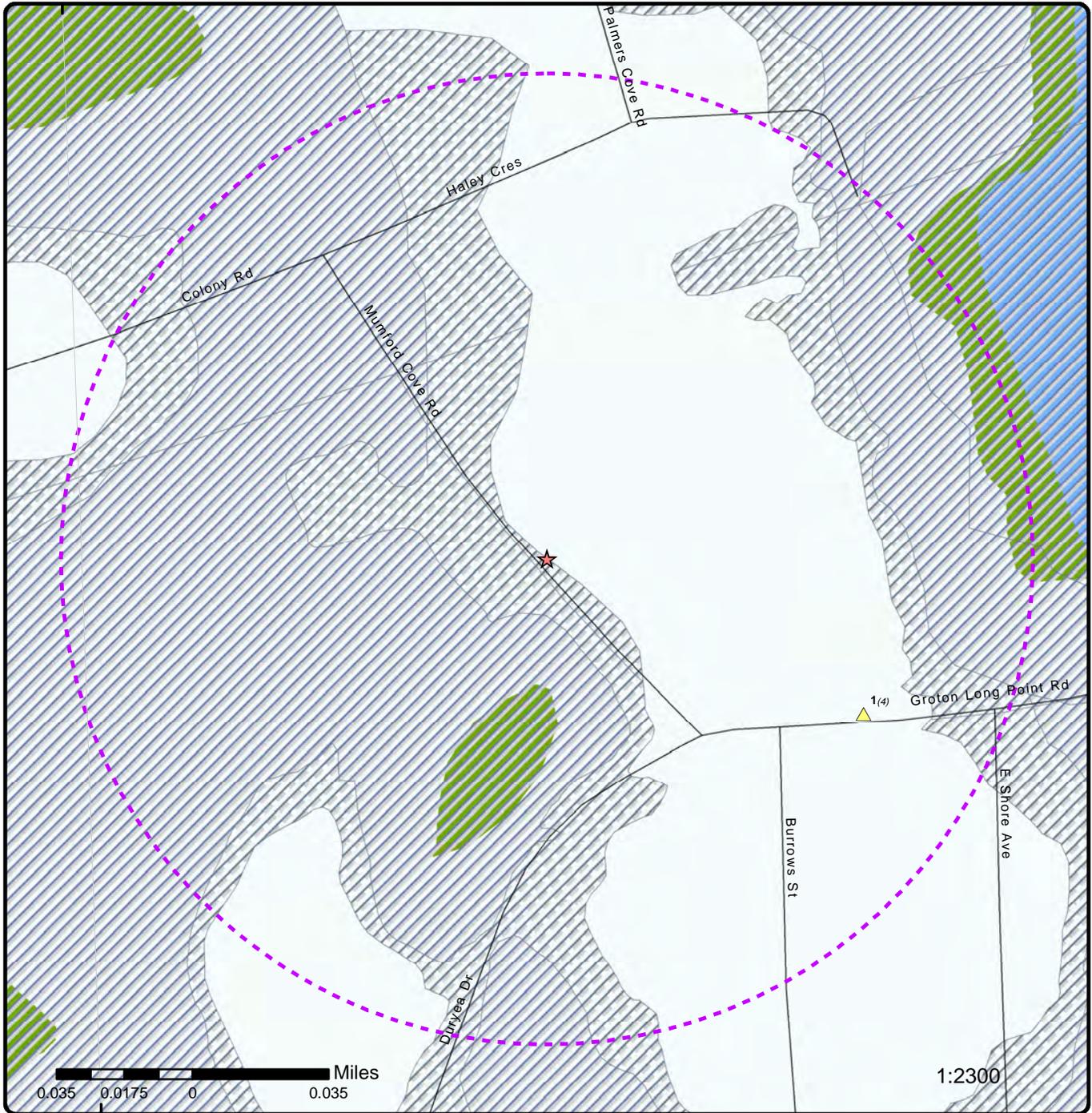
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
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#### UST - Underground Storage Tank Facilities

A search of the UST database, dated Jul 2013 has found that there are 1 UST 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>
PALMER COVE MARINA	1023 GROTON LONG PT RD Groton CT 06340	ESE	0.09	1

<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: 20140402032

Address: 50 Mumford Cove Road, Groton, CT



<b>Project Property</b>	Major Highways	Rails	National Wetland
<b>Buffer Outline</b>	Major Highways Ramps	County Boundary	Indian Reserve Land
Eris Sites with Higher Elevation	Major Roads	State Boundary	Historic Fill
Eris Sites with Same Elevation	Major Roads Ramps and Traffic Circles	500 Year Flood Zone	State Brownfield
Eris Sites with Lower Elevation	Secondary Roads	100 Year Flood Zone	National Priority List Sites
Eris Sites with Unknown Elevation	Secondary Roads Ramps and Traffic Circles	Local Roads and Ramps	

72°0'30"W

72°0"W

41°19'30"N

41°19'30"N

41°19'N

41°19'N



# Aerial

Order No: 20140402032

Address: 50 Mumford Cove Road, Groton, CT

Source: ESRI World Imagery, Updated December 2012

© Ecolog ERIS Ltd

# Detail Report

Map Key	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
1	1 of 4	ESE/0.09	16.04	MARINA ON PALMER COVE LLC 1023 GROTON LONG POINT RD. GROTON CT 06340-5698	<a href="#">FINDS/FRS</a>

**Facility Detail Report URL:** [http://iaspub.epa.gov/enviro/fii\\_query\\_detail\\_disp\\_program\\_facility?p\\_registry\\_id=110013694555](http://iaspub.epa.gov/enviro/fii_query_detail_disp_program_facility?p_registry_id=110013694555)  
**Registry ID:** 110013694555  
**Program Acronyms:** ICIS, SIMS  
**Supplemental Location:**  
**Location Description:**  
**County Name:** NEW LONDON  
**FIPS Code:** 09011  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist Num:** 02  
**Census Block Code:** 090117029002024  
**HUC Code:** 01100003  
**EPA Region Code:** 01  
**Site Type Name:** STATIONARY  
**Create Date:** 10-FEB-03  
**Update Date:** 05-MAR-13  
**US Mexico Border Ind:**  
**Interest Types:** ENFORCEMENT/COMPLIANCE ACTIVITY, STATE MASTER  
**NAICS Codes:**  
**NAICS Code Descriptions:**  
**SIC Codes:**  
**SIC Code Descriptions:**  
**Latitude83:** 41.320137  
**Longitude83:** -72.004181  
**Conveyor:** SIMS  
**Coord Collection Method:** ADDRESS MATCHING-STREET CENTERLINE  
**Accuracy Value:**  
**Reference Point:**  
**HDatum:** NAD83  
**Source:**

1	2 of 4	ESE/0.09	16.04	Noank 1023 Groton Long Point Road GROTON CT 06340-5698	<a href="#">SPILLS</a>
<b>Water Body:</b>		n/a		<b>Terminated:</b>	YES
<b>Sign 6:</b>				<b>Quantity Record:</b>	0
<b>Sign 7:</b>				<b>Quantity Water:</b>	0
<b>State Release:</b>		CT		<b>Town Release:</b>	GROTON
<b>Location:</b>		Noank 1023 Groton Long Point Road		<b>Release Substance:</b>	HYDRAULIC OIL
<b>Ongoing:</b>		0		<b>Water Body</b>	0
<b>Time Stamp:</b>		28-JUN-12		<b>Affected:</b>	
<b>SR Inspector Name:</b>		Cox, Michael		<b>User Stamp:</b>	GuzmanCa
				<b>AT Inspector Name:</b>	**NO RESPONSE

Map Key	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
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**Costre Covery:** 0 **SSMA Time Stamp:** 00000000008D5B4  
**Year:** 26-JUN-12  
**Case #:** 201203305  
**Received By:** 205  
**Assigned To:** 0  
**Date Reported:** 26-JUN-12  
**Time Reported:** 26-JUN-12  
**Date Release:** 25-JUN-12  
**Time Release:** 30-DEC-99  
**Report By:** Bob Fiore  
**Area 1:** 860  
**Phone 1:** 5366207  
**Area 2:**  
**Phone 2:**  
**Representing:** Palmers Cove Marina  
**Discharger:** saa  
**Area 3:**  
**Discharger Phone:**  
**Respresenting Street:**  
**Respresenting Town:**  
**Respresenting State:** CT  
**Respresenting Zip:**  
**Responsibility:** YES  
**Historic:** 0  
**Sign 1:** ~  
**Quan Gallons:** 2  
**Sign 2:**  
**Quan Yards:** 0  
**Sign 3:**  
**Quan Feet:** 0  
**Sign 4:**  
**Quan Drums:** 0  
**Signs:**  
**Quanlbs:** 0  
**Status:** CLOSED  
**Emergency Measures:** oil pads  
**Comments:**

**Action**

**Action:** Contracted  
**Other:**

**Action:** Other  
**Other:** ESI

**Agency**

**Agency:** DEP Dispatch  
**Other:**  
**Department Bureau:**  
**Department Division:**

**Cause:**

**Cause:** Hose Failure  
**Other:**

**Class**

Map Key	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
<b>Class:</b>		Private			
<b>Other:</b>					
<b>Media:</b>					
<b>Media:</b>		Ground Surface			
<b>Other:</b>					
<b>Release</b>					
<b>Release:</b>		petroleum			
<b>Other:</b>					
<b>Waterbody</b>					
<b>Waterbody:</b>		Other			
<b>Other:</b>		none			

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<b>1</b>	<b>3 of 4</b>	<b>ESE/0.09</b>	<b>16.04</b>	<b>1023 Groton Long Point Rd Groton CT 06340-5698</b>	<b><a href="#">SPILLS</a></b>
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<b>Water Body:</b> <b>Sign 6:</b> <b>Sign 7:</b> <b>State Release:</b> CT <b>Location:</b> 1023 Groton Long Point Rd <b>Ongoing:</b> 0  <b>Time Stamp:</b> 31-OCT-12 <b>SR Inspector Name:</b> Monarca, Vincent <b>Costre Covery:</b> 0 <b>Year:</b> 30-OCT-12 <b>Case #:</b> 201205960 <b>Received By:</b> 208 <b>Assigned To:</b> 938 <b>Date Reported:</b> 30-OCT-12 <b>Time Reported:</b> 30-OCT-12 <b>Date Release:</b> 30-OCT-12 <b>Time Release:</b> <b>Report By:</b> fd <b>Area 1:</b> 860 <b>Phone 1:</b> 4481562 <b>Area 2:</b> <b>Phone 2:</b> <b>Representing:</b> fd <b>Discharger:</b> <b>Area 3:</b> <b>Discharger Phone:</b> <b>Respresenting Street:</b> <b>Respresenting Town:</b> <b>Respresenting State:</b> CT <b>Respresenting Zip:</b> <b>Responsibility:</b> <b>Historic:</b> 0 <b>Sign 1:</b> <b>Quan Gallons:</b> 0 <b>Sign 2:</b> <b>Quan Yards:</b> 0	<b>Terminated:</b> NO <b>Quantity Record:</b> 0 <b>Quantity Water:</b> 0 <b>Town Release:</b> Groton <b>Release Substance:</b> PROPANE <b>Water Body</b> 0 <b>Affected:</b> <b>User Stamp:</b> GranilloM <b>AT Inspector Name:</b> SCALORA, RICH <b>SSMA Time Stamp:</b> 000000000095CCC
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Map Key	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
<b>Sign 3:</b>					
<b>Quan Feet:</b>	0				
<b>Sign 4:</b>					
<b>Quan Drums:</b>	0				
<b>Signs:</b>					
<b>Quanlbs:</b>	200				
<b>Status:</b>	OPEN				
<b>Emergency Measures:</b>	2 100 lb propane cylinders				
<b>Comments:</b>					
<b>Action</b>					
<b>Action:</b>		Investigated			
<b>Other:</b>					
<b>Agency</b>					
<b>Agency:</b>		DEP Dispatch			
<b>Other:</b>					
<b>Department Bureau:</b>					
<b>Department Division:</b>					
<b>Agency:</b>		LOCAL FIRE DEPARTMENT			
<b>Other:</b>					
<b>Department Bureau:</b>					
<b>Department Division:</b>					
<b>Cause:</b>					
<b>Cause:</b>		Container Failure			
<b>Other:</b>					
<b>Class</b>					
<b>Class:</b>		Private			
<b>Other:</b>					
<b>Media:</b>					
<b>Media:</b>		Surface Water			
<b>Other:</b>					
<b>Release</b>					
<b>Release:</b>		petroleum			
<b>Other:</b>					
<b>Release:</b>		dielect			
<b>Other:</b>					
<b>Waterbody</b>					

1	4 of 4	ESE/0.09	16.04	PALMER COVE MARINA 1023 GROTON LONG PT RD Groton CT 06340	<a href="#">UST</a>
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<b>Facility ID:</b>	916	<b>Owner ID:</b>	4966
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Map Key	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
<b>Alt Facility ID:</b>	59-916			<b>Notification:</b>	2
<b>Latitude Degrees:</b>	41			<b>Latitude Minutes:</b>	19
<b>Latitude Seconds:</b>	13			<b>Longitude Degrees:</b>	7
<b>Longitude Minutes:</b>	21			<b>Longitude</b>	16
				<b>Seconds:</b>	
<b>Location Phone:</b>				<b>Form Name:</b>	
<b>Form Title:</b>				<b>Form Date:</b>	
<b>Operator Last Name:</b>	FIORE			<b>Operator First Name:</b>	ROBERT N.
<b>Indian:</b>	0			<b>Tribe Owned:</b>	0
<b>Tribe:</b>				<b>Finance:</b>	0
<b>Self Insurance:</b>	0			<b>Insurance:</b>	0
<b>Risk Retention:</b>	0			<b>Guarantee:</b>	0
<b>Surety Bond:</b>	0			<b>LTR Credit:</b>	0
<b>State Funds:</b>	0			<b>Trust Funds:</b>	0
<b>Other Finance:</b>	0			<b>Finance Other:</b>	
<b>Fr Not Listed:</b>	0			<b>Date Received:</b>	02-JUN-06
<b>Stamp Init:</b>	marion gartrell			<b>Stamp Date:</b>	05-JUN-06
<b>Other Facility:</b>					
<b>Facility Description:</b>	Not Listed				
<b>Facility Comment:</b>	Site Owner GSA #: Site Basin Name: SOUTHEAST SHORELINE Site Proprietary Code: N Site Grid X: 1 Site Grid Y: 1 Intersecting Street: E SHORE AVE				

#### Tank Info

<b>Tank ID:</b>	1
<b>Alt Tank ID:</b>	A1
<b>Tank Status:</b>	Permanently Out of Use
<b>Date Received:</b>	
<b>Amended:</b>	0
<b>Federal Regulated Tank:</b>	1
<b>AST:</b>	0
<b>Manifold:</b>	0
<b>Compartment:</b>	0
<b>Tank Capacity:</b>	1000
<b>Substance:</b>	Gasoline
<b>Cas Number:</b>	
<b>Substance Comments:</b>	
<b>Date Last Used:</b>	01-MAY-86
<b>Date Closure Received:</b>	
<b>Date Closed:</b>	
<b>Closure Status:</b>	Removed
<b>Inert Material:</b>	
<b>Site Assessment:</b>	0
<b>Leak Detected:</b>	0
<b>Tank Material:</b>	Asphalt Coated or Bare Steel
<b>Tank Mods:</b>	None
<b>Other Tank Material:</b>	Tank Life Expectancy: 20 yrs. Tank Expiration Date: 01/1995
<b>Tank Repaired:</b>	0
<b>Tank No Fee:</b>	0
<b>Tank Manual Gauge:</b>	0
<b>Tank Tightness:</b>	0
<b>Tank Inventory Control:</b>	1
<b>Tank ATG:</b>	0
<b>Tank Vapor Monitor:</b>	0
<b>Tank GW Monitor:</b>	0
<b>Tank Double Walled:</b>	0
<b>Tank Second Container:</b>	0
<b>Tank Sir:</b>	0

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction/ Distance mi</b>	<b>Elevation ft</b>	<b>Site</b>	<b>DB</b>
<b>Tank LD Other:</b>	0				
<b>Tank LD Deferred:</b>	0				
<b>Tank LD Not Listed:</b>	0				
<b>Pipe Material:</b>			Galvanized Steel		
<b>Pipe Mod:</b>			None		
<b>Other Pipe Material:</b>			Piping Installed: 09/85		
<b>Pipe Repaired:</b>	0				
<b>Pipe Type:</b>			Not Listed		
<b>Pipe Auto Line Leak Detection:</b>	0				
<b>Pipe Line Tightness:</b>	0				
<b>Pipe Vapor Monitoring:</b>	0				
<b>Pipe GW Monitoring:</b>	0				
<b>Pipe Double Walled:</b>	0				
<b>Pipe Second Container:</b>	0				
<b>Pipe Sir:</b>	0				
<b>Pipe LD Other:</b>	0				
<b>Pipe LD Deferred:</b>	0				
<b>Pipe LD Not Listed:</b>	1				
<b>LD Other Methods:</b>					
<b>Overfill Installed:</b>	0				
<b>Spill Installed:</b>	0				
<b>CPMet:</b>	0				
<b>Licensee ID:</b>					
<b>Contractor ID:</b>					
<b>Certify Tank Pipe:</b>	0				
<b>Certify Agency:</b>	0				
<b>Certify Inspection Engineer:</b>	0				
<b>Certify Inspection Agency:</b>	0				
<b>Certify Installed Manufacturer:</b>	0				
<b>Certify Installed Other Method:</b>	0				
<b>Certify Other Installed:</b>					
<b>Date Signed:</b>					
<b>Date Installed</b>		01-JAN-70			
<b>Small Delivery:</b>	0				
<b>Tank Emergency:</b>	0				
<b>Piping Comments:</b>					
<b>Cleanup Completed:</b>	0				
<b>Tank ID:</b>	2				
<b>Alt Tank ID:</b>	B1				
<b>Tank Status:</b>	Currently In Use				
<b>Date Received:</b>	02-JUN-06				
<b>Amended:</b>	1				
<b>Federal Regulated Tank:</b>	1				
<b>AST:</b>	0				
<b>Manifold:</b>	0				
<b>Compartment:</b>	0				
<b>Tank Capacity:</b>	3000				
<b>Substance:</b>	Gasoline				
<b>Cas Number:</b>					
<b>Substance Comments:</b>					
<b>Date Last Used:</b>					
<b>Date Closure Received:</b>					
<b>Date Closed:</b>					
<b>Closure Status:</b>					
<b>Inert Material:</b>					
<b>Site Assessment:</b>	0				
<b>Leak Detected:</b>	0				
<b>Tank Material:</b>			Cathodically Protected Steel		

Map Key	Number of Records	Direction/ Distance mi	Elevation ft	Site	DB
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<b>Tank Mods:</b>			None		
<b>Other Tank Material:</b>			Tank Life Expectancy: 30 yrs. Tank Expiration Date: 05/2021		
			6		
<b>Tank Repaired:</b>			0		
<b>Tank No Fee:</b>			0		
<b>Tank Manual Gauge:</b>			0		
<b>Tank Tightness:</b>			0		
<b>Tank Inventory Control:</b>			1		
<b>Tank ATG:</b>			1		
<b>Tank Vapor Monitor:</b>			0		
<b>Tank GW Monitor:</b>			0		
<b>Tank Double Walled:</b>			0		
<b>Tank Second Container:</b>			0		
<b>Tank Sir:</b>			0		
<b>Tank LD Other:</b>			0		
<b>Tank LD Deferred:</b>			0		
<b>Tank LD Not Listed:</b>			0		
<b>Pipe Material:</b>			Fiberglass Reinforced Plastic		
<b>Pipe Mod:</b>			None		
<b>Other Pipe Material:</b>			Piping Installed: 3/99		
<b>Pipe Repaired:</b>			0		
<b>Pipe Type:</b>			Not Listed		
<b>Pipe Auto Line Leak Detection:</b>			0		
<b>Pipe Line Tightness:</b>			0		
<b>Pipe Vapor Monitoring:</b>			0		
<b>Pipe GW Monitoring:</b>			0		
<b>Pipe Double Walled:</b>			0		
<b>Pipe Second Container:</b>			0		
<b>Pipe Sir:</b>			0		
<b>Pipe LD Other:</b>			0		
<b>Pipe LD Deferred:</b>			0		
<b>Pipe LD Not Listed:</b>			1		
<b>LD Other Methods:</b>					
<b>Overfill Installed:</b>			0		
<b>Spill Installed:</b>			0		
<b>CPMet:</b>			1		
<b>Licensee ID:</b>					
<b>Contractor ID:</b>					
<b>Certify Tank Pipe:</b>			0		
<b>Certify Agency:</b>			0		
<b>Certify Inspection Engineer:</b>			0		
<b>Certify Inspection Agency:</b>			0		
<b>Certify Installed Manufacturer:</b>			0		
<b>Certify Installed Other Method:</b>			0		
<b>Certify Other Installed:</b>					
<b>Date Signed:</b>					
<b>Date Installed</b>			01-MAY-86		
<b>Small Delivery:</b>			0		
<b>Tank Emergency:</b>			0		
<b>Piping Comments:</b>					
<b>Cleanup Completed:</b>			0		

**Contacts**

<b>Last Name:</b>	PALMER COVE MARINA
<b>First Name:</b>	(Not Listed)
<b>Address:</b>	1023 GROTON LONG PT RD
<b>City:</b>	Groton
<b>State:</b>	CT
<b>Zip Code:</b>	06340

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance mi</i>	<i>Elevation ft</i>	<i>Site</i>	<i>DB</i>
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<b>Zip Code+4:</b>					
<b>Phone:</b>			2035366200		
<b>Fax:</b>					
<b>Owner:</b>			0		
<b>Operator:</b>			0		
<b>Manager:</b>			0		
<b>Out Reach:</b>			0		
<b>Corrective Action:</b>			0		
<b>Fee:</b>			0		
<b>RP:</b>			0		
<b>Location:</b>			0		
<b>Other:</b>			1		
<b>Other Desc:</b>			Former Bus. Info.		

## Unplottable Summary

DB	Company Name/Site Name	Address	City	Zip
<a href="#">FINDS/FRS</a>	EAST SHORE AVE.	EAST SHORE AVE.	GROTON CT	
<a href="#">FINDS/FRS</a>	SHORE AVENUE	SHORE AVENUE	GROTON CT	
<a href="#">FINDS/FRS</a>	PALMER COVE	GROTON LONG POINT RD.	GROTON CT	-
<a href="#">FINDS/FRS</a>	GROTON LONG POINT ROAD AT PALMER COVE	GROTON LONG POINT ROAD AT PALMER COVE	GROTON CT	
<a href="#">FINDS/FRS</a>	GROTON LONG POINT RD.	GROTON LONG POINT RD.	GROTON CT	
<a href="#">SPILLS</a>		ALLYN AND BURROWS ST INTERSECTION.	GROTON CT	
<a href="#">SPILLS</a>		shore ave.	GROTON CT	
<a href="#">SPILLS</a>		END OF EAST SHORE AVE (LONG POINT AREA)	GROTON CT	
<a href="#">SPILLS</a>		groton long point rd	GROTON CT	
<a href="#">SPILLS</a>		SHORE AVENUE	GROTON CT	

# Unplottable Report

**Site:** EAST SHORE AVE.  
EAST SHORE AVE. GROTON CT

**Database:**  
[FINDS/FRS](#)

**Facility Detail Report URL:** [http://iaspub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=11004417088](http://iaspub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=11004417088)  
4  
**Registry ID:** 110044170884  
**Program Acronyms:** SIMS  
**Supplemental Location:**  
**Location Description:**  
**County Name:** NEW LONDON  
**FIPS Code:** 09011  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist Num:**  
**Census Block Code:**  
**HUC Code:**  
**EPA Region Code:** 01  
**Site Type Name:** STATIONARY  
**Create Date:** 17-NOV-11  
**Update Date:**  
**US Mexico Border Ind:**  
**Interest Types:** STATE MASTER  
**NAICS Codes:**  
**NAICS Code Descriptions:**  
**SIC Codes:**  
**SIC Code Descriptions:**  
**Latitude83:**  
**Longitude83:**  
**Conveyor:**  
**Coord Collection Method:**  
**Accuracy Value:**  
**Reference Point:**  
**HDatum:** NAD83  
**Source:**

**Site:** SHORE AVENUE  
SHORE AVENUE GROTON CT

**Database:**  
[FINDS/FRS](#)

**Facility Detail Report URL:** [http://iaspub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=11004414590](http://iaspub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=11004414590)  
2  
**Registry ID:** 110044145902  
**Program Acronyms:** SIMS  
**Supplemental Location:**  
**Location Description:**  
**County Name:** NEW LONDON  
**FIPS Code:** 09011  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist Num:**

**Census Block Code:** 090117026001011  
**HUC Code:** 01100003  
**EPA Region Code:** 01  
**Site Type Name:** STATIONARY  
**Create Date:** 17-NOV-11  
**Update Date:**  
**US Mexico Border Ind:**  
**Interest Types:** STATE MASTER  
**NAICS Codes:**  
**NAICS Code Descriptions:**  
**SIC Codes:**  
**SIC Code Descriptions:**  
**Latitude83:** 41.32348  
**Longitude83:** -72.0748  
**Conveyor:** FRS  
**Coord Collection Method:** ADDRESS MATCHING-STREET CENTERLINE  
**Accuracy Value:** 2000  
**Reference Point:** ENTRANCE POINT OF A FACILITY OR STATION  
**HDatum:** NAD83  
**Source:**

---

**Site:** PALMER COVE  
GROTON LONG POINT RD. GROTON CT -

**Database:**  
[FINDS/FRS](#)

**Facility Detail Report URL:** [http://iaspub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=11004417669](http://iaspub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=11004417669)  
**Registry ID:** 1  
110044176691  
**Program Acronyms:** SIMS  
**Supplemental Location:**  
**Location Description:**  
**County Name:** NEW LONDON  
**FIPS Code:** 09011  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist Num:**  
**Census Block Code:**  
**HUC Code:**  
**EPA Region Code:** 01  
**Site Type Name:** STATIONARY  
**Create Date:** 17-NOV-11  
**Update Date:**  
**US Mexico Border Ind:**  
**Interest Types:** STATE MASTER  
**NAICS Codes:**  
**NAICS Code Descriptions:**  
**SIC Codes:**  
**SIC Code Descriptions:**  
**Latitude83:**  
**Longitude83:**  
**Conveyor:**  
**Coord Collection Method:**  
**Accuracy Value:**  
**Reference Point:**  
**HDatum:** NAD83  
**Source:**

---

**Site:** GROTON LONG POINT ROAD AT PALMER COVE

**Database:**

**Facility Detail Report URL:** [http://iaspub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=11004419078](http://iaspub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=11004419078)  
2

**Registry ID:** 110044190782

**Program Acronyms:** SIMS

**Supplemental Location:**

**Location Description:**

**County Name:** NEW LONDON

**FIPS Code:** 09011

**Federal Facility Code:**

**Federal Agency Name:**

**Tribal Land Code:**

**Tribal Land Name:**

**Congressional Dist Num:**

**Census Block Code:**

**HUC Code:**

**EPA Region Code:** 01

**Site Type Name:** STATIONARY

**Create Date:** 17-NOV-11

**Update Date:**

**US Mexico Border Ind:**

**Interest Types:** STATE MASTER

**NAICS Codes:**

**NAICS Code Descriptions:**

**SIC Codes:**

**SIC Code Descriptions:**

**Latitude83:**

**Longitude83:**

**Conveyor:**

**Coord Collection Method:**

**Accuracy Value:**

**Reference Point:**

**HDatum:** NAD83

**Source:**

**Site:** GROTON LONG POINT RD.  
GROTON LONG POINT RD. GROTON CT

**Database:**  
[FINDS/FRS](#)

**Facility Detail Report URL:** [http://iaspub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=11004416003](http://iaspub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=11004416003)  
8

**Registry ID:** 110044160038

**Program Acronyms:** SIMS

**Supplemental Location:**

**Location Description:**

**County Name:** NEW LONDON

**FIPS Code:** 09011

**Federal Facility Code:**

**Federal Agency Name:**

**Tribal Land Code:**

**Tribal Land Name:**

**Congressional Dist Num:**

**Census Block Code:**

**HUC Code:**

**EPA Region Code:** 01

**Site Type Name:** STATIONARY

**Create Date:** 17-NOV-11

**Update Date:**

**US Mexico Border Ind:**

**Interest Types:** STATE MASTER

**NAICS Codes:**

**NAICS Code Descriptions:**

SIC Codes:  
SIC Code Descriptions:  
Latitude83:  
Longitude83:  
Conveyor:  
Coord Collection Method:  
Accuracy Value:  
Reference Point:  
HDatum: NAD83  
Source:

Site: ALLYN AND BURROWS ST INTERSECTION. GROTON CT

Database:  
SPILLS

<b>Water Body:</b>		<b>Terminated:</b>	YES
<b>Sign 6:</b>	~	<b>Quantity</b>	1
<b>Sign 7:</b>		<b>Record:</b>	
		<b>Quantity</b>	0
<b>State Release:</b>	CT	<b>Water:</b>	
<b>Location:</b>	ALLYN AND BURROWS ST INTERSECTION.	<b>Town Release:</b>	GROTON
<b>Ongoing:</b>	0	<b>Release</b>	GASOLINE
		<b>Substance:</b>	
<b>Time Stamp:</b>	23-APR-97	<b>Water Body</b>	0
<b>SR Inspector Name:</b>	SAMORAJCZYK,JEFF	<b>Affected:</b>	
		<b>User Stamp:</b>	
<b>Costre Covery:</b>	0	<b>AT Inspector</b>	**NO RESPONSE
		<b>Name:</b>	
		<b>SSMA Time</b>	000000000067D05
		<b>Stamp:</b>	

**Year:** 23-APR-97  
**Case #:** 9702004  
**Received By:** 205  
**Assigned To:** 0  
**Date Reported:** 23-APR-97  
**Time Reported:** 30-DEC-99  
**Date Release:** 23-APR-97  
**Time Release:** 30-DEC-99  
**Report By:** LEE RUMNELL DISPATCHER.  
**Area 1:** 860  
**Phone 1:** 4481562  
**Area 2:**  
**Phone 2:**  
**Representing:** GROTON FIRE ALARM  
**Discharger:**  
**Area 3:**  
**Discharger Phone:**  
**Respresenting Street:**  
**Respresenting Town:**  
**Respresenting State:** CT  
**Respresenting Zip:**  
**Responsibility:**  
**Historic:** 0  
**Sign 1:** ~  
**Quan Gallons:** 1  
**Sign 2:**  
**Quan Yards:** 0  
**Sign 3:**  
**Quan Feet:** 0  
**Sign 4:**  
**Quan Drums:** 0  
**Signs:**

**Quantlbs:** 0  
**Status:** closed  
**Emergency Measures:**  
**Comments:**

-- --  
**Action:** --  
-- --  
**Action:** Contained  
**Other:** --  
-- --  
**Action:** Sanded  
**Other:** --  
-- --  
**Agency:** --  
-- --  
**Agency:** Local Police  
**Other:** --  
**Department Bureau:** --  
**Department Division:** --  
-- --  
**Agency:** DEP Dispatch  
**Other:** --  
**Department Bureau:** --  
**Department Division:** --  
-- --  
**Agency:** LOCAL FIRE DEPARTMENT  
**Other:** --  
**Department Bureau:** --  
**Department Division:** --  
-- --  
**Cause:** --  
-- --  
**Cause:** MV Accident  
**Other:** --  
-- --  
**Class:** --  
**Media:** --  
-- --  
**Media:** Ground Surface  
**Other:** --  
-- --  
**Release:** --  
-- --  
**Release:** petroleum  
**Other:** --  
-- --  
**Waterbody:** --  
-- --  
**Waterbody:** Other  
**Other:** NONE  
-- --

**Site:** shore ave. GROTON CT

**Database:** [SPILLS](#)

**Water Body:** thames river  
**Sign 6:** Terminated: NO  
Quantity: 0  
Record:

**Sign 7:**

**State Release:** CT  
**Location:** shore ave.

**Ongoing:** 0

**Time Stamp:** 15-SEP-00  
**SR Inspector Name:** Capuano, Mike

**Costre Covery:** 0

**Quantity** 0  
**Water:**  
**Town Release:** GROTON  
**Release** BROWN SLIME  
**Substance:**  
**Water Body** 0  
**Affected:**  
**User Stamp:**  
**AT Inspector Name:** McCann, Mike  
**SSMA Time Stamp:** 000000000006E5B8

**Year:** 09-JUN-00  
**Case #:** 200004127  
**Received By:** 915  
**Assigned To:** 923  
**Date Reported:** 09-JUN-00  
**Time Reported:** 09-JUN-00  
**Date Release:** 09-JUN-00  
**Time Release:**  
**Report By:** mr. senko  
**Area 1:** 860  
**Phone 1:** 4458656  
**Area 2:**  
**Phone 2:**  
**Representing:** Self  
**Discharger:** unknown  
**Area 3:** 860  
**Discharger Phone:** 0000000  
**Respresenting Street:**  
**Respresenting Town:**  
**Respresenting State:** CT  
**Respresenting Zip:**  
**Responsibility:**  
**Historic:** 0  
**Sign 1:**  
**Quan Gallons:** 0  
**Sign 2:**  
**Quan Yards:** 0  
**Sign 3:**  
**Quan Feet:** 0  
**Sign 4:**  
**Quan Drums:** 0  
**Signs:**  
**Quanlbs:** 0  
**Status:** Closed  
**Emergency Measures:** #923 investigating.  
**Comments:**

-- --  
**Action**  
 -- --  
**Action:** Other  
**Other:** #923 investigating  
 -- --  
**Agency Cause:**  
 -- --  
**Cause:** Other  
**Other:** unknown  
 -- --  
**Class**  
 -- --

**Class:** Other  
**Other:** unknown  
 -- --  
**Media:** --  
 -- --  
**Media:** Surface Water  
**Other:** --  
 -- --  
**Release**  
 -- --  
**Release:** other  
**Other:** unknown  
 -- --  
**Waterbody**  
 -- --  
**Waterbody:** River  
**Other:** --  
 -- --

**Site:** END OF EAST SHORE AVE (LONG POINT AREA) GROTON CT

**Database:**  
[SPILLS](#)

<b>Water Body:</b>	LONG ISLAND SOUND	<b>Terminated:</b>	NO
<b>Sign 6:</b>		<b>Quantity</b>	0
<b>Sign 7:</b>		<b>Record:</b>	
		<b>Quantity</b>	0
<b>State Release:</b>	CT	<b>Water:</b>	
<b>Location:</b>	END OF EAST SHORE AVE (LONG POINT AREA)	<b>Town Release:</b>	GROTON
<b>Ongoing:</b>	0	<b>Release</b>	OIL
		<b>Substance:</b>	
<b>Time Stamp:</b>	19-SEP-06	<b>Water Body</b>	0
<b>SR Inspector Name:</b>	Kinney, Clarence	<b>Affected:</b>	
		<b>User Stamp:</b>	mgranill
<b>Costre Covery:</b>	0	<b>AT Inspector Name:</b>	Emanuelson, Brian
		<b>SSMA Time Stamp:</b>	00000000007BD9F
<b>Year:</b>	18-AUG-06		
<b>Case #:</b>	200605166		
<b>Received By:</b>	206		
<b>Assigned To:</b>	917		
<b>Date Reported:</b>	18-AUG-06		
<b>Time Reported:</b>	18-AUG-06		
<b>Date Release:</b>	18-AUG-06		
<b>Time Release:</b>			
<b>Report By:</b>	GROTON 911		
<b>Area 1:</b>	860		
<b>Phone 1:</b>	4481562		
<b>Area 2:</b>			
<b>Phone 2:</b>			
<b>Representing:</b>	Self		
<b>Discharger:</b>			
<b>Area 3:</b>			
<b>Discharger Phone:</b>			
<b>Respresenting Street:</b>			
<b>Respresenting Town:</b>			
<b>Respresenting State:</b>	CT		
<b>Respresenting Zip:</b>			
<b>Responsibility:</b>			
<b>Historic:</b>	0		
<b>Sign 1:</b>			
<b>Quan Gallons:</b>	0		
<b>Sign 2:</b>			

Quan Yards: 0  
Sign 3:  
Quan Feet: 0  
Sign 4:  
Quan Drums: 0  
Signs:  
Quanlbs: 0  
Status: CLOSED  
Emergency Measures: LARGE OIL SHEEN ON WATER  
Comments:

--  
**Action**  
--  
**Action:** Referred  
**Other:**  
--  
--  
**Action:** Other  
**Other:** REFERRED TO 912  
--

**Agency**  
--  
**Agency:** DEP Dispatch  
**Other:**  
**Department Bureau:**  
**Department Division:**

--  
--  
**Agency:** LOCAL FIRE DEPARTMENT  
**Other:**  
**Department Bureau:**  
**Department Division:**

--  
**Cause:**  
--  
**Cause:** Other  
**Other:** UNKNOWN  
--

**Class**  
--  
**Class:** Private  
**Other:**  
--

**Media:**  
--  
**Media:** Surface Water  
**Other:**

--  
**Release**  
--  
**Release:** petroleum  
**Other:**

--  
**Waterbody**  
--  
**Waterbody:** LIS  
**Other:**  
--

---

**Site:** groton long point rd GROTON CT

**Database:**  
[SPILLS](#)

**Water Body:**  
**Sign 6:**  
  
**Sign 7:**  
  
**State Release:** CT  
**Location:** groton long point rd  
  
**Ongoing:** 0  
  
**Time Stamp:** 05-JUN-06  
**SR Inspector Name:** Monarca, Vincent  
  
**Costre Covery:** 0

**Terminated:** YES  
**Quantity** 0  
**Record:**  
**Quantity** 0  
**Water:**  
**Town Release:** GROTON  
**Release** ANTIFREEZE  
**Substance:**  
**Water Body** 0  
**Affected:**  
**User Stamp:** mgranill  
**AT Inspector** \*\*NO RESPONSE  
**Name:**  
**SSMA Time** 00000000007B603  
**Stamp:**

**Year:** 30-MAY-06  
**Case #:** 200603171  
**Received By:** 208  
**Assigned To:** 0  
**Date Reported:** 30-MAY-06  
**Time Reported:** 30-MAY-06  
**Date Release:** 30-MAY-06  
**Time Release:**  
**Report By:** fd  
**Area 1:** 860  
**Phone 1:** 4481562  
**Area 2:**  
**Phone 2:**  
**Representing:** fd  
**Discharger:**  
**Area 3:**  
**Discharger Phone:**  
**Respresenting Street:**  
**Respresenting Town:**  
**Respresenting State:** CT  
**Respresenting Zip:**  
**Responsibility:**  
**Historic:** 0  
**Sign 1:**  
**Quan Gallons:** 2  
**Sign 2:**  
**Quan Yards:** 0  
**Sign 3:**  
**Quan Feet:** 0  
**Sign 4:**  
**Quan Drums:** 0  
**Signs:**  
**Quanlbs:** 0  
**Status:** CLOSED  
**Emergency Measures:**  
**Comments:**

--  
**Action**  
 --  
**Action:** Sanded  
**Other:**  
 --  
**Agency**  
 --  
**Agency:** DEP Dispatch  
**Other:**

**Department Bureau:**  
**Department Division:**  
 --  
 --  
**Agency:** LOCAL FIRE DEPARTMENT  
**Other:**  
**Department Bureau:**  
**Department Division:**  
 --  
**Cause:**  
 --  
**Cause:** MV Accident  
**Other:**  
 --  
**Class**  
 --  
**Class:** Private  
**Other:**  
 --  
**Media:**  
 --  
**Media:** Ground Surface  
**Other:**  
 --  
**Release**  
 --  
**Release:** chemical  
**Other:**  
 --  
**Waterbody**

**Site:** SHORE AVENUE GROTON CT

**Database:**  
[SPILLS](#)

**Water Body:** THAMES RIVER  
**Sign 6:**  
**Sign 7:**  
**State Release:** CT  
**Location:** SHORE AVENUE

**Terminated:**  
**Quantity** 0  
**Record:**  
**Quantity** 0  
**Water:**  
**Town Release:** GROTON  
**Release** BROWN SLIME  
**Substance:**  
**Water Body** 0  
**Affected:**  
**User Stamp:**  
**AT Inspector** McCann, Mike  
**Name:**  
**SSMA Time** 000000000006E5B5  
**Stamp:**

**Ongoing:** 0  
**Time Stamp:** 09-JUN-00  
**SR Inspector Name:** Coss, Brian  
**Costre Covery:** 0  
**Year:** 09-JUN-00  
**Case #:** 200004124  
**Received By:** 931  
**Assigned To:** 923  
**Date Reported:** 09-JUN-00  
**Time Reported:** 30-DEC-99  
**Date Release:** 09-JUN-00  
**Time Release:**  
**Report By:** MR. SENKO  
**Area 1:** 860  
**Phone 1:** 4458656  
**Area 2:**  
**Phone 2:**  
**Representing:** Self

**Discharger:** UNKNOWN

**Area 3:**

**Discharger Phone:**

**Respresenting Street:**

**Respresenting Town:**

**Respresenting State:** CT

**Respresenting Zip:**

**Responsibility:**

**Historic:** 0

**Sign 1:**

**Quan Gallons:** 0

**Sign 2:**

**Quan Yards:** 0

**Sign 3:**

**Quan Feet:** 0

**Sign 4:**

**Quan Drums:** 0

**Signs:**

**Quanlbs:** 0

**Status:** Closed

**Emergency Measures:**

**Comments:**

-- --

**Action**

**Agency**

**Class**

**Media:**

-- --

**Media:** Surface Water

**Other:**

-- --

**Release**

**Waterbody**

-- --

**Waterbody:** River

**Other:**

-- --

## Appendix: Database Descriptions

Ecolog Environmental Risk Information Services Ltd can search the following databases. The extent of Historical information varies with each database and current information is determined by what is publicly available to Ecolog ERIS at the time of update. **Note:** Databases denoted with " \* " indicates that the database will no longer be updated. See the individual database description for more information.

### Standard Environmental Record Sources

#### Federal

**National Priority List:** Oct 25, 2013 [NPL](#)  
National Priorities List (Superfund)-NPL: EPA's list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.  
Please see our NPL Polygon data for site boundary information.

**National Priority List - Proposed:** Oct 25, 2013 [PROPOSED NPL](#)  
Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment

**Delisted NPL:** Oct 25, 2013 [DELISTED NPL](#)  
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

**Comprehensive Environmental Response, Compensation and Liability Information System- CERCLIS:** Oct 25, 2013 [CERCLIS](#)  
CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

**CERCLIS - No Further Remedial Action Planned:** Oct 25, 2013 [CERCLIS NFRAP](#)  
An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.  
The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

**CERCLIS Liens:** Mar 2013 [CERCLIS LIENS](#)  
A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner (see topic CERCLA "Superfund" Liens).

**RCRA CORRACTS- Corrective Action:**

Feb 11, 2014

[RCRA CORRACTS](#)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984.

RCRA (Corrective Action Program) requires TSD owners and operators to investigate and cleanup hazardous waste releases at hazardous waste facilities. The RCRA Corrective Action Program allows these facilities to address the investigation and cleanup of these hazardous releases themselves.

RCRA Corrective Action facilities include many current and former chemical manufacturing plants, oil refineries, lead smelters, wood preservers, steel mills, commercial landfills, and a variety of other types of entities. Due to poor practices prior to environmental regulations, Corrective Action facilities have left large stretches of river sediments laden with PCBs; deposited lead in residential yards and parks beyond site boundaries; polluted drinking water wells in rural areas with chlorinated solvents; tainted municipal water supplies used by millions; and introduced mercury into waterways, necessitating fish advisories. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

**RCRA non-CORRACTS TSD Facilities:**

Feb 11, 2014

[RCRA TSD](#)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

**RCRA Generator List:**

Feb 11, 2014

[RCRA GEN](#)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Generators are divided into three categories based upon the quantity of waste they produce:

1. Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste, more than 1 kilogram per month of acutely hazardous waste, or more than 100 kilograms per month of acute spill residue or soil.
2. Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.
3. Conditionally Exempt Small Quantity Generators (CESQGs) generate 100 kilograms or less per month of hazardous waste, or 1 kilogram or less per month of acutely hazardous waste, or less than 100 kilograms per month of acute spill residue or soil.

**RCRA Non-Generators:**

Feb 11, 2014

[RCRA NON GEN](#)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

**Federal Engineering Controls-ECs:**

Jul 2013

[FED ENG](#)

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property.

**Federal Institutional Controls- ICs:** Jul 2013 [FED INST](#)

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. For instance, zoning restrictions prevent site land uses, like residential uses, that are not consistent with the level of cleanup.

**Emergency Response Notification System:** 1982-1986 [ERNS 1982-1986](#)

Database of oil and hazardous substances spill reports controlled by the The National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Emergency Response Notification System:** 1987-1989 [ERNS 1987-1989](#)

Database of oil and hazardous substances spill reports controlled by the The National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Emergency Response Notification System:** Dec 2012 [ERNS](#)

Database of oil and hazardous substances spill reports controlled by the The National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:** Mar 21, 2014 [FED BROWNFIELDS](#)

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands.

## **State**

**Inventory of Hazardous Waste Disposal Sites:** Jun 2013 [SHWS](#)

State Hazardous Waste Sites (State Equivalent CERLIS). These are sites which may pose a threat to the environment or public health and are listed on the Inventory of Hazardous Waste Disposal Sites ("the Inventory"), pursuant to section 22a-133c of the Connecticut General Statutes (CGS).

**Active and Inactive Landfills:** Jun 2013 [SWF/LF](#)

Listing of Solid Waste Facilities and Landfills in the state.

**Leaking Underground Storage Tanks:** Jul 2013 [LUST](#)

The Connecticut Department of Energy and Environmental Protection (DEEP) Leaking Underground Storage Tank Database. This database is a list of leaking underground storage tanks reported to the DEEP. It includes information gathered by DEEP personnel during the initial report of the release and site visit. It does not track the status of a site over the long term.

**Underground Storage Tank Facilities:** Jul 2013 [UST](#)

List of Underground Storage Tanks registered with the Department of Energy and Environmental Protection.

**Marine Terminals:**

Jun 2013

[AST](#)

List of facilities licensed under the Department of Energy & Environmental Protection (DEEP) Marine Terminals licensing program. Sections 22a-449(b) and (c) of the Connecticut General Statutes (CGS) require that all owners or operators of terminals which receive petroleum or hazardous chemical liquid products from waterborne vessels or dispense such products to vessels apply for a license.

**Environmental Land Use Restriction (ELUR):**

Jun 2013

[AUL](#)

An Environmental Land Use Restriction (ELUR) is an easement granted to the Commissioner of the Department of Energy and Environmental Protection (DEEP) by the property owner that is recorded on the municipal land records. The purpose of an ELUR is to minimize the risk of human exposure to pollutants and hazards to the environment by preventing specific uses or activities at a property or a portion of a property. An ELUR is a tool which permits the remedial goals for a property to be dependent on the exposure risk associated with its use.

**Voluntary Remediation Sites:**

Jun 2013

[VCP](#)

Sites involved in the Department of Energy and Environmental Protection (DEEP) Voluntary Remediation Program. There are two voluntary remediation programs in Connecticut under Connecticut General Statutes (CGS) sections 22a-133x and 22a-133y. Both programs are an elective process for property owners who wish to expedite the remediation of polluted property, thus enabling them the advantage of a remediated site should they ever decide to sell the property.

**DEEP Brownfields Inventory:**

Jun 2013

[BROWNFIELDS](#)

Inventory of brownfields sites maintained by the Department of Energy and Environmental Protection (DEEP). A brownfield is defined by Connecticut General Statutes §32-9kk(a)(1) as "any abandoned or underutilized site where redevelopment, reuse or expansion has not occurred due to the presence or potential presence of pollution in the buildings, soil or groundwater that requires investigation or remediation before or in conjunction with the restoration, redevelopment, reuse and expansion of the property."

**CBRA Brownfields:**

Mar 2013

[CBRA BRWN](#)

The Connecticut Brownfields Redevelopment Authority (CBRA) is a wholly owned subsidiary of the Connecticut Development Authority and provides: Direct and Indirect Financial Assistance for Brownfields Remediation; Direct Loans; Loan Guarantees made in concert with qualifying financial Institutions; Tax Increment Financing (TIF) for brownfields redevelopment and information technology projects; Issue Bonds.

**Tribal**

**Leaking Underground Storage Tanks on Indian Lands:**

Aug 13, 2013

[ILST](#)

Leaking USTs on Tribal/Indian Lands in Region 1, which includes Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, and Vermont.

**Underground Storage Tanks on Indian Lands:**

Aug 13, 2013

[IUST](#)

USTs on Tribal/Indian Lands in Region 1, which includes Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, and Vermont.

**Voluntary Cleanup Priority Listing on Indian Lands:**

Mar 8, 2011

[INDIAN VCP](#)

Voluntary Cleanups of Priority Sites located on Indian Land in Region 1, which includes Connecticut.

**County**

## ***Additional Environmental Record Sources***

### **Federal**

**Facility Registry Service/Facility Index:** Dec 5, 2013 [FINDS/FRS](#)

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

**Toxics Release Inventory (TRI) Program:** 1987-2012 [TRIS](#)

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

**Hazardous Materials Information Reporting System:** Mar 16, 2014 [HMIRS](#)

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

**National Clandestine Drug Labs:** Feb 4, 2014 [NCDL](#)

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

**Inventory of Open Dumps, June 1985:** Jun 1985 [ODI](#)

The Resource Conservation and Recovery Act (RCRA of the Act) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257)

**EPA Report on the Status of Open Dumps on Indian** Dec 31, 1998 [IODI](#)

#### **Lands:**

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

### **State**

**Environmental Property Liens Recorded:** May 2013 [LIENS](#)

The Department of Energy and Environmental Protection (DEEP) Bureau of Financial & Support Services maintains the Environmental Property Liens Recorded Database. The Connecticut General Statutes (CGS) allow the State of Connecticut to claim a lien for any amount paid by the Commissioner of the DEEP to contain and remove or mitigate the effects of a spill on real property.

**Property Transfer Sites:**

Jun 2013

[CT PROPERTY](#)

The Property Transfer Program, administered by the Remediation Division of the Bureau of Water Protection and Land Reuse, requires the disclosure of environmental conditions when certain real properties and/or businesses ("establishments") are transferred. When an establishment is transferred, one of eight Property Transfer Forms must be executed, and a copy of the form must be filed with the Department of Energy & Environmental Protection. When transferring an establishment where there has been a release of a hazardous waste or a hazardous substance, the parties negotiate who will sign the Property Transfer Form as the Certifying Party to investigate the parcel and remediate pollution caused by any release of a hazardous waste or hazardous substance from the establishment.

**Spill Incident Tracking System (SITS):**

JUL 17, 2013

[SPILLS](#)

List of incident sites recorded in the Spill Incident Tracking System (SITS), maintained by the Connecticut Department of Energy and Environmental Protection (DEEP) Emergency Response Unit. Chapter 446k Section 22a-450 of the Connecticut General Statutes requires that all incidents of discharge, spillage, uncontrolled loss, seepage or filtration of oil or petroleum or chemical liquids or solid, liquid or gaseous products or hazardous wastes be reported to the DEEP.

**Hazardous Waste Manifest Data:**

Jul 30, 2013

[CT MANIFEST](#)

All shipments of hazardous waste within, into, or from Connecticut require the use of a federal hazardous waste manifest form. The manifest form contains information about: the facility where the waste was generated; the waste generated and its transportation; and the treatment, storage, and disposal facility (TSDF) accepting the shipment. This is a list of waste manifests and associated waste generating facilities; the data is gathered and maintained by the Connecticut Department of Energy and Environmental Protection (DEEP) Hazardous Waste Management program.

**Hazardous Waste Manifest Data - Treatment, Storage, and Disposal Facilities:**

Jul 30, 2013

[CT MANIFEST TSDF](#)

All shipments of hazardous waste within, into, or from Connecticut require the use of a federal hazardous waste manifest form. The manifest form contains information about: the facility where the waste was generated; the waste generated and its transportation; and the treatment, storage, and disposal facility (TSDF) accepting the shipment. This is a list of TSDF locations in the state of Connecticut who have been recorded within the manifest data (CT MANIFEST) as a receiver of waste.

**Hazardous Waste Handlers:**

Oct 7, 2013

[CT HAZ HANDLERS](#)

As a part of their Hazardous Waste Manifest database, the Connecticut Department of Energy and Environmental Protection (DEEP) Hazardous Waste Management program keeps a listing of Hazardous Waste Handlers and their status as a generator, transporter, or treatment, storage, and disposal facility (TSDF). This is a list of generator and TSDF facilities which do not have associated records in the Hazardous Waste Manifest Data.

**Tribal**

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

**County**

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report:** This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries". All values are an approximation.

**Direction:** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

**Elevation:** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

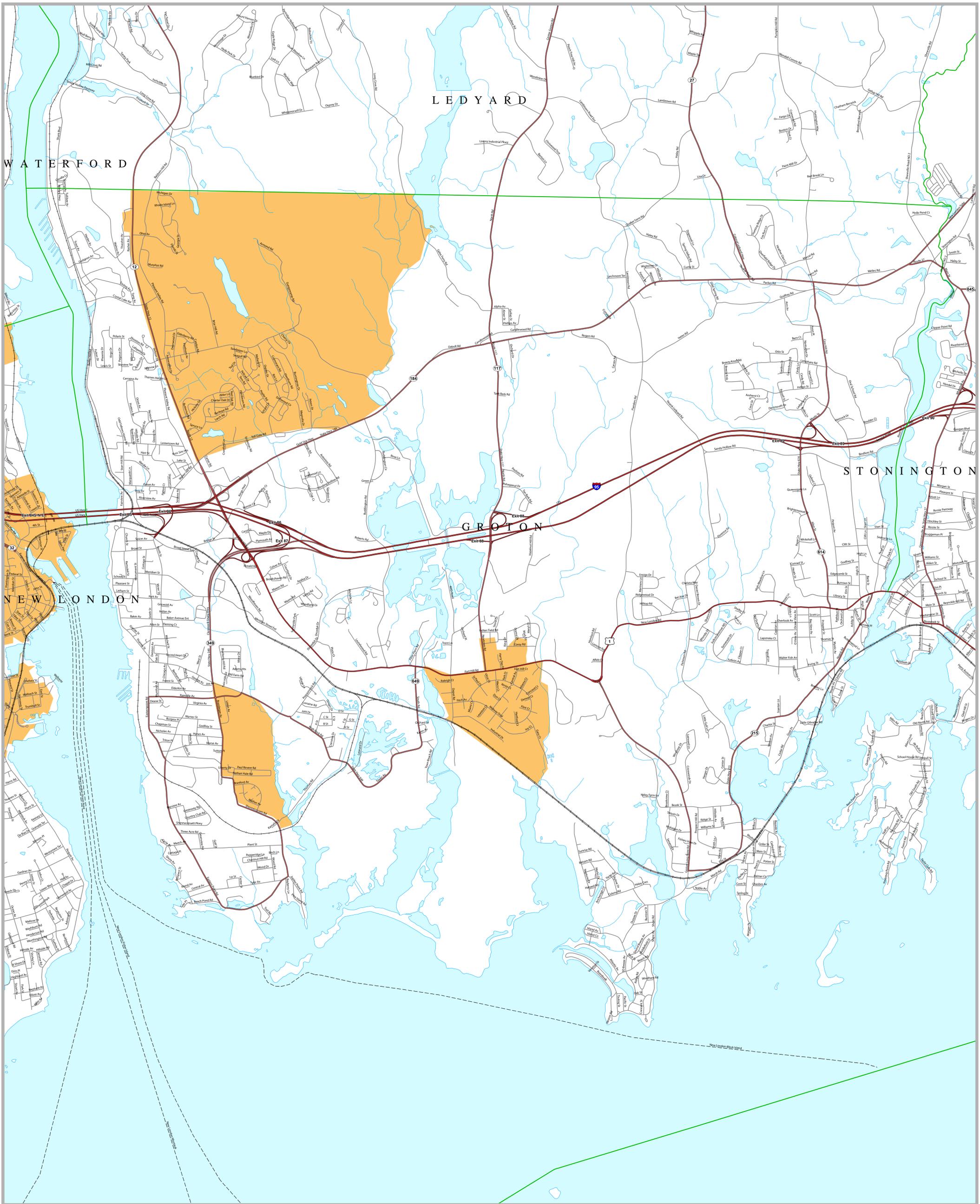
**Unplottables:** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and were included as reference.

## Attachment E

<b>2013 Distressed Municipalities</b>			<b>2013 Distressed Municipalities</b>	
<b>Ranked by Score</b>			<b>In town alphabetical order</b>	
	<b>Total Scores</b>			<b>Total Scores</b>
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

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.





# EAGLE Environmental, Inc.

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

February 27, 2015

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

**RE: Environmental Assessment Report  
Department of Housing  
CDBG-DR – Sandy Disaster Recovery Program  
50 Mumford Cove Road  
Groton, Connecticut  
Application 1743  
Eagle Project No. 14-028.12T3**

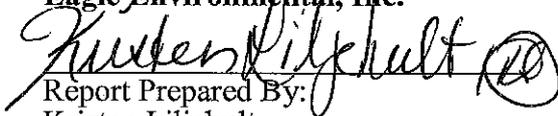
Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 50 Mumford Cove Road 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:  
Kristen Liljehult  
Environmental Consultant II

  
Report Reviewed By:  
Peter J. Folino  
Project Manager

\\Eaglesvr\public\2014 Files\2014 Reports\Capital Studio Architects\Hurricane Sandy\50 Mumford Cove Rd. - Groton\50 Mumford- Enviro Assessment Report.doc

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## **1. INTRODUCTION**

On April 10 and May 29, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 50 Mumford Cove Road in Groton, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint 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 are determined by reviewing the planned renovation work provided in CSA's Project Scope dated March 7, 2014. For the purpose of this project the following areas were inspected:

- Roof System and Attic
- Sunroom
- 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 located in Appendix 3.

A complete list of components that were tested may be found in the XRF Lead 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 Aaron Hatcher; a State of Connecticut licensed Asbestos Inspector (license #000645).

### **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 Aaron E. Hatcher and Kristen Liljehult; State of Connecticut licensed Lead Inspectors/Risk Assessors (license # 002186 and 002206, respectively).

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 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 the 50 Mumford Cove Road 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 the 50 Mumford Cove Road, Groton, Connecticut.

## 3.2 Lead-based Paint

The lead-based paint hazard screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1364 and 2753 throughout the building.

Due to the level of proposed Federal Funding for this project (exceeding \$25,000 per unit), the lead-based paint hazard screen included testing surfaces where defective paint or surface coatings were identified. A visual inspection was performed to evaluate the condition of surface coating associated with the building. Where surface coatings were defective (peeling, chipping, flaking, etc.), paint testing was performed. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order. Intact paint was not tested as it is not defined as a lead hazard.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm<sup>2</sup>. The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, lead-based paint is defined as surface coatings that contain  $\geq 1.0$  mg/cm<sup>2</sup> of lead by XRF.

In addition to XRF testing, dust samples are collected at the time of inspection if defective lead-based paint is identified. The exterior grounds are evaluated as well and if bare areas of soil are identified, soil samples are collected. Any dust or soil hazards identified are incorporated into the Lead-Based Paint Hazard Reduction or Abatement Plan.

## 3.3 Radon Testing

The site building is planned to be raised to proper flood elevation and the lowest level of the building will not be in contact with the ground. Radon testing was not performed for this site building.

## 3.4 Mold Inspection

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

assessed. Only visible accessible materials were inspected within the proposed areas of renovation/repair.

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

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

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

## **4. INSPECTION RESULTS**

### **4.1 Asbestos Containing Materials**

During the course of the building inspection sixteen (16) bulk samples of suspect ACM were collected and analyzed by PLM analysis.

The following materials were confirmed to be ACM:

- Foundation damp proofing on cinderblock (unraised front portion only)

The remaining materials tested, which may be impacted by the work, were confirmed to be non-ACM and no further action is required.

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

Damp proofing was identified on the exterior portion of the cinderblock foundation on the front of the building. The damp proofing is applied on the exterior portion of the cinderblock as a moisture barrier. The damp proofing may be impacted if the front portion of the building is raised above the appropriate flood level. The damp proofing is a non-friable exterior material and is not regulated by CT DPH regulations. Any portion of the foundation, which is removed and contains damp proofing, will require disposal as ACM waste. Contractors performing work that impacts the damp proofing must comply with the US Department of Labor's Occupational Safety and Health Administration (OSHA), the USEPA National Emission Standard for Hazardous Air Pollutants and the CT DEEP regulated waste disposal regulations.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

### **4.2 Lead-based Paint**

A copy of this lead-based paint hazard screen report must be provided to residence within fifteen (15) days of the evaluation. A total of sixty-six (66) XRF readings were collected during the lead-hazard screen; none of those readings were identified as containing toxic levels of lead-based paint. No further action is required.

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

Disclaimer: If a surface that has not been tested and confirmed to be negative for lead-based paint is impacted and becomes defective during the project, the surface must be assumed to contain toxic levels of lead-based paint and be treated accordingly.

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.

#### **4.2.1 Dust Hazards**

A total of ten (10) dust wipes were collected on May 29, 2014. No dust-lead hazards were identified at the sampled locations. Eagle Environmental, Inc. recommends that the residents continue to follow their regular cleaning regimen.

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

#### **4.2.2 Soil Hazards**

One (1) soil sample was collected on May 29, 2014. There is no soil-lead hazard identified at the sampled location. The homeowner should maintain the ground coverings in their current condition.

### **4.3 Radon**

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

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

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

### **4.4 Mold**

The physical inspection did not identify any visible suspect mold growth within the limits of the inspected areas. Moisture testing on the underside of the roof deck indicated the roof deck was holding moisture and could be at risk for future microbial growth. The underside of the roof deck should be dried during the project.

The wood floor joists in the crawlspace were also holding moisture and are at risk for future microbial growth. The joists should be dried during the project.

The cinderblock crawlspace walls are retaining high levels of moisture. Masonry materials inherently hold high levels of moisture and are not of concern since the structure will be raised and will no longer be in contact with the cinderblock foundation.

The mold inspection forms are provided in Appendix 6.

## **5. COST ESTIMATES**

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

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

The cost estimates are provided in Appendix 7.

**TABLE I**

**ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE**

TABLE I  
 ASBESTOS CONTAINING MATERIALS  
 SUMMARY TABLE  
 50 MUMFORD COVE ROAD  
 GROTON, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Front unraised portion of foundation	Foundation damp proofing	4-10-AH-03	MISC	<1% Chrys			YES	140 SF	
		4-10-AH-04		3% Chrys					
<b>KEY</b>									
DNA = DID NOT ANALYZE									
NAD = NO ASBESTOS DETECTED									
F = FRIABLE									
NF = NON-FRIABLE									
TSI = THERMAL SYSTEMS INSULATION									
SURF = SURFACING MATERIAL									
MISC = MISCELLANEOUS MATERIAL									
				<b>ANALYTICAL METHODS</b>					
				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					
<b>BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION</b>									

**TABLE II**

**NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE**

**TABLE II  
NON - ASBESTOS CONTAINING MATERIALS  
SUMMARY TABLE  
50 MUMFORD COVE ROAD  
GROTON, CONNECTICUT**

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM/PC	TEM NOB	ACM
Façade B, Façade D	Crawlspace window/ window glazing compound	4-10-AH-01	MISC	NAD			NO
		4-10-AH-02		NAD			
Sunroom	Sheetrock	4-10-AH-05	MISC	NAD			NO
		4-10-AH-06		NAD			
Sunroom	Joint compound	4-10-AH-07	MISC	NAD			NO
		4-10-AH-08		NAD			
Sunroom	Sheetrock/joint compound composite	4-10-AH-09	MISC	NAD			NO
		4-10-AH-10		NAD			
Sunroom	Ceramic floor tile thinset	4-10-AH-11	MISC	NAD			NO
		4-10-AH-12		NAD			
Sunroom	Ceramic floor tile grout	4-10-AH-13	MISC	NAD			NO
		4-10-AH-14		NAD			
Attic	Batting insulation paper	4-10-AH-15	MISC	NAD			NO
		4-10-AH-16		NAD			
<b>KEY</b>				<b>ANALYTICAL METHODS</b>			
DNA = DID NOT ANALYZE				PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT			
NAD=NO ASBESTOS DETECTED				TEM NOB = NEW YORK ELAP 198.4 METHOD			
F = FRIABLE				PLM = EPA 600/R-93/116			
NF = NON-FRIABLE				PS = Previously Sampled			
TSI = THERMAL SYSTEMS INSULATION				EA = Each			
SURF = SURFACING MATERIAL							
MISC = MISCELLANEOUS MATERIAL							
<b>BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION</b>							

**APPENDIX 1**  
**FLOOR PLANS**

# CAPITOL STUDIOS ARCHITECTS

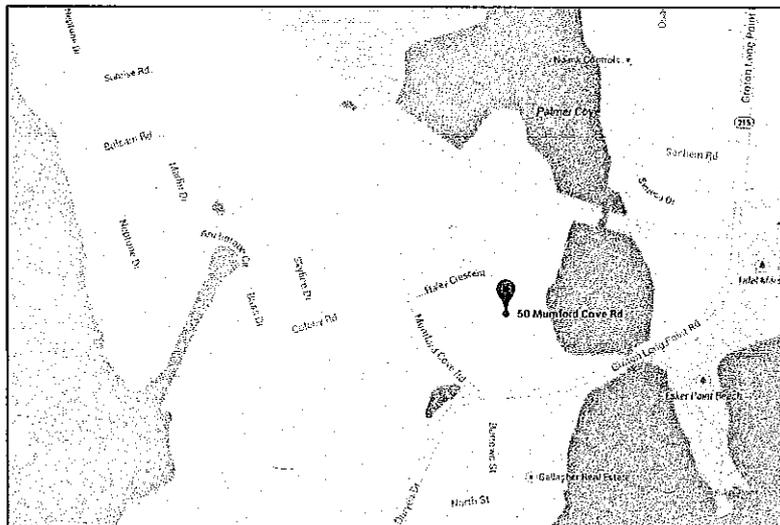
50 MUMFORD COVE ROAD  
GROTON, CONNECTICUT

EAGLE PROJECT NUMBER: 14-028.12T3

## INDEX OF DRAWINGS

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

## LOCATION MAP



MAY 29, 2014



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

# SITE PLAN

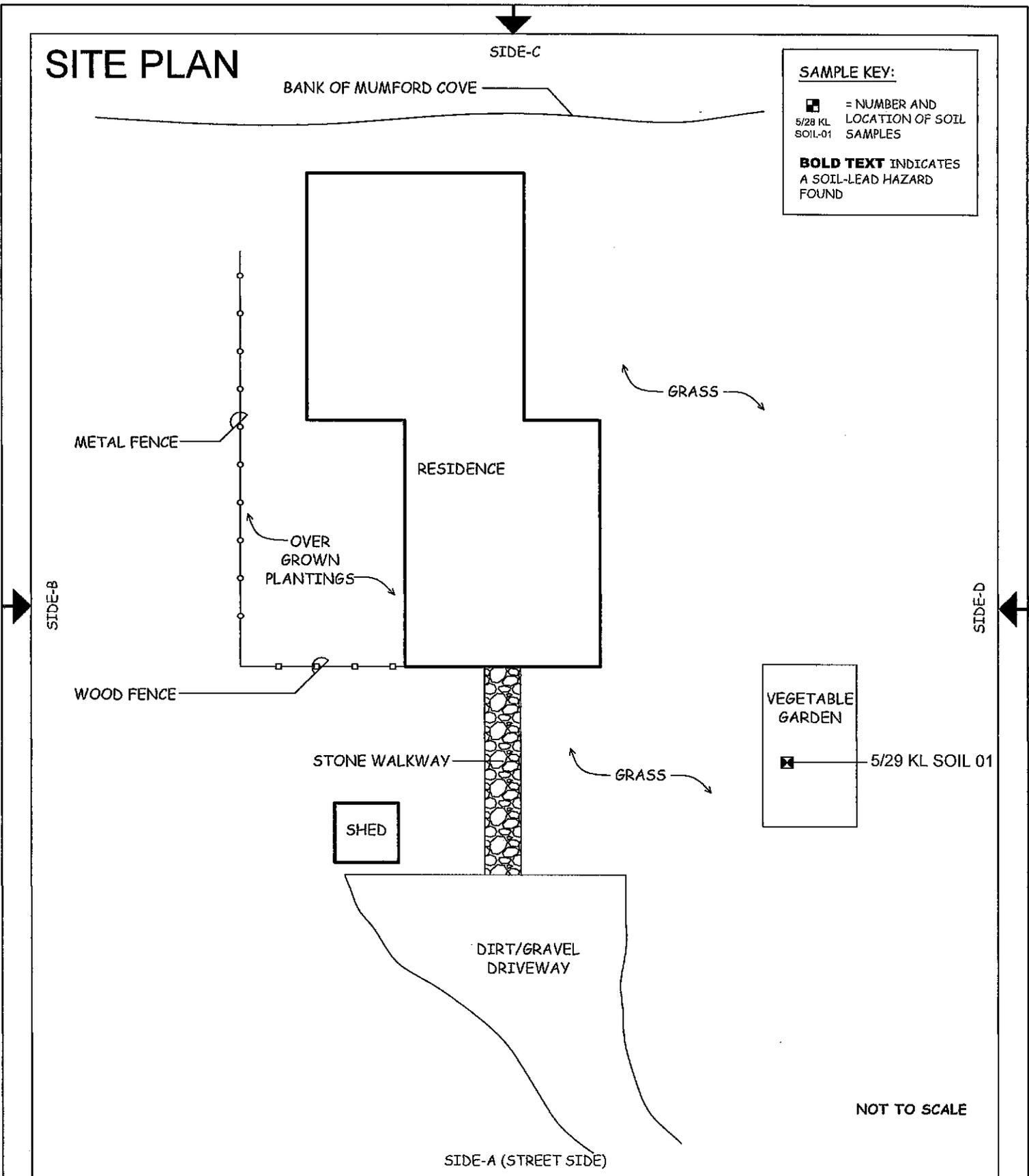
SIDE-C

BANK OF MUMFORD COVE

**SAMPLE KEY:**

■ = NUMBER AND LOCATION OF SOIL SAMPLES  
 5/28 KL SOIL-01

**BOLD TEXT** INDICATES A SOIL-LEAD HAZARD FOUND



VEGETABLE GARDEN

5/29 KL SOIL 01

SHED

DIRT/GRAVEL DRIVEWAY

SIDE-A (STREET SIDE)

NOT TO SCALE



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

SHEET NO.

**SP-1**

SHEET 1 OF 3

DATE: 05/29/2014  
 PROJECT NO.: 14-028.12-T3  
 DRAWN BY: VB  
 REVIEWED BY: AH

**ENVIRONMENTAL REVIEW**  
**50 MUMFORD COVE ROAD**  
**GROTON, CONNECTICUT**  
**SITE PLAN WITH SOIL SAMPLE LOCATION**

# FIRST FLOOR

SIDE-C

SUNPORCH  
007

DINING ROOM  
006

C

KITCHEN  
005

BATH  
004

OFFICE  
003

LIVING ROOM  
002

SIDE-A (STREET SIDE)

SIDE-B

SIDE-D

NOT TO SCALE

C = CLOSET EVALUATED  
WITH ADJACENT ROOM



**EAGLE**  
Environmental, Inc.

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

SHEET NO.

**FP-1**

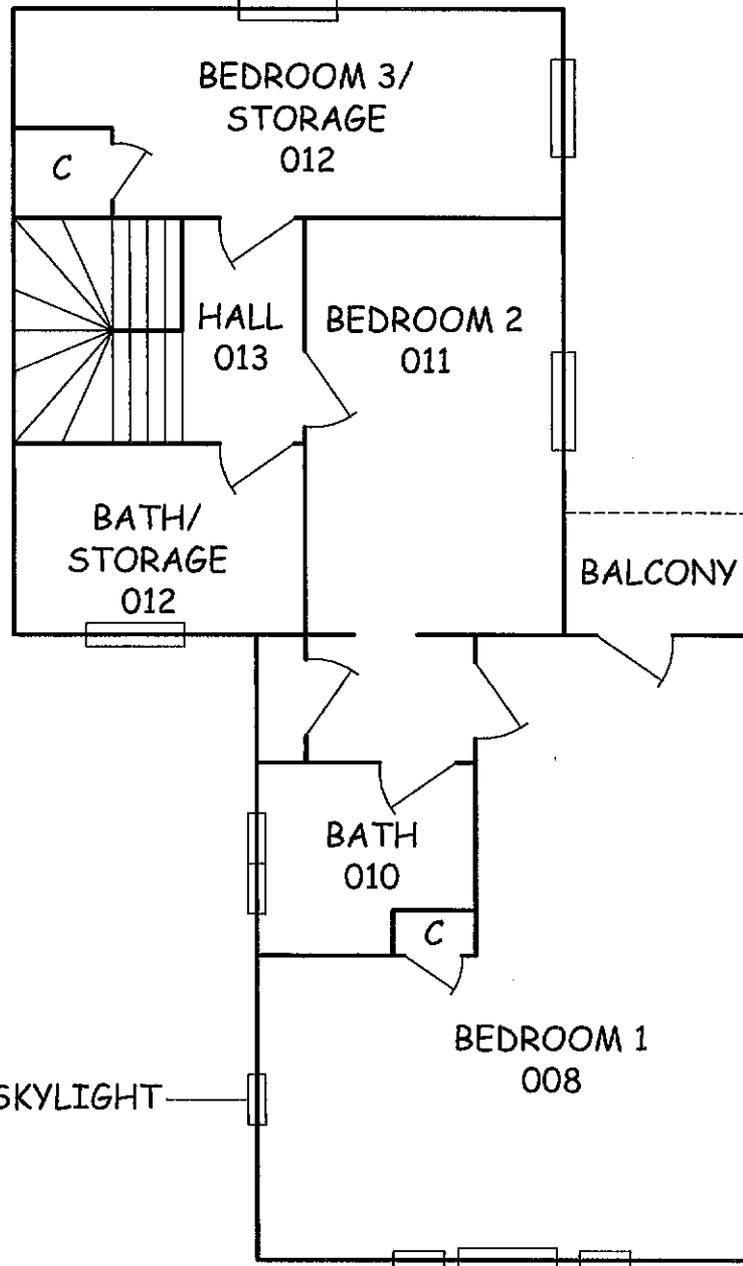
SHEET 2 OF 3

DATE: 05/29/2014  
PROJECT NO.: 14-028.12-T3  
DRAWN BY: VB  
REVIEWED BY: AH

ENVIRONMENTAL REVIEW  
50 MUMFORD COVE ROAD  
GROTON, CONNECTICUT  
FIRST FLOOR PLAN

# SECOND FLOOR

SIDE-C



SIDE-B

SIDE-D

SIDE-A (STREET SIDE)

NOT TO SCALE

C = CLOSET EVALUATED WITH ADJACENT ROOM



**EAGLE**  
Environmental, Inc.

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

**ENVIRONMENTAL REVIEW**  
50 MUMFORD COVE ROAD  
GROTON, CONNECTICUT  
SECOND FLOOR PLAN

SHEET NO.

**FP-2**

SHEET 3 OF 3

DATE: 05/29/2014  
PROJECT NO.: 14-028.12-T3  
DRAWN BY: VB  
REVIEWED BY: AH

**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 38<sup>th</sup> 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 *031413898*

**Company:** Eagle Environmental, Inc.

**Street:** 8 South Main Street, Suite 3

**City/State/Zip:** Terryville, CT 06786

**Phone:** 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsloch@eagleenviro.com

**Project Name:** CAPITAL STUDIO ARCHITECTS **Project #:** 14-028.12T3

**Project Location:** 50 MUMFORD COVE RD., 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 *HR 4/12/14*  
 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 Vitrous Fibers - MMVF's  
 Synthetic Fiber Identification  
 Other

**MICROBIAL ANALYSIS**

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

**Water Samples**  
 Total Coliforms, Fecal Coliforms  
 Escherichia Coli, Fecal Streptococcus  
 Legionella  
 Salmonella  
 Giardia and Cryptosporidium

**Wipe and Bulk Samples**  
 Mold & Fungi - Direct Examination  
 Mold & Fungi - (Culture follow up to direct examination if necessary)  
 Mold & Fungi - Culture (Count & ID)  
 Mold & Fungi - Culture (Count only)  
 Bacterial Count & Gram Stain  
 Bacterial Count & Identification (3 most prominent types)  
 Other

**IAQ ANALYSIS**

Nuisance Dust (NIOSH 0500 & 0600)  
 Airborne Dust (PM10, TSP)  
 Silica Analysis by XRD  NIOSH 7600  
 HVAC Efficiency  
 Carbon Black  
 Airborne Oil Mist  
 Other

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

Client Sample # (S)	4-10-AH-01	4-10-AH-16	TOTAL SAMPLE #
Relinquished:	AARON HATCHER <i>Aaron Hatcher</i>	Date: 4-10-2014	Time: PM
Received:	NANCY PORTER <i>Nancy Porter</i>	Date: 4-10-2014	Time: PM
Relinquished:	NANCY PORTER <i>Nancy Porter</i>	Date: 4-10-2014	Time: PM
Received:	HERNAN MOZA <i>Hernan Moza</i>	Date: 4-11-14	Time: 10:59 AM



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 38<sup>th</sup> 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

031413898

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)	
4-10-AH-01	Crawlspace window/window glazing compound	Facade B		N/A D	
4-10-AH-02	Crawlspace window/window glazing compound	Facade D		V	
4-10-AH-03	Foundation damp proofing	Facade B		21% Chngs	
4-10-AH-04	Foundation damp proofing	Facade D		3% Chngs	
4-10-AH-05	Sheetrock	Sunroom		N/A D	
4-10-AH-06	Sheetrock	Sunroom		↓	
4-10-AH-07	Joint compound	Sunroom			
4-10-AH-08	Joint compound	Sunroom			
4-10-AH-09	Sheetrock/joint compound composite	Sunroom			
4-10-AH-10	Sheetrock/joint compound composite	Sunroom			
4-10-AH-11	Ceramic floor tile thinset	Sunroom			
4-10-AH-12	Ceramic floor tile thinset	Sunroom			
4-10-AH-13	Ceramic floor tile grout	Sunroom			
4-10-AH-14	Ceramic floor tile grout	Sunroom			
4-10-AH-15	Batting insulation paper	Attic			
4-10-AH-16	Batting insulation paper	Attic			

J 4/12/14

1/2 4/12 10:50 AM

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
 Phone/Fax (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031413898  
 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: 04/11/14 10:59 AM  
 Analysis Date: 4/12/2014  
 Collected: 4/10/2014

Project: 14-028.12T3/ CAPITAL STUDIO ARCHITECTS/ 50 MUMFORD COVE RD., GROTON/ CT

### 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
4-10-AH-01 031413898-0001	CRAWLSPACE WINDOW/ WINDOW GLAZING COMPOUND - FACADE B	Gray Non-Fibrous Homogeneous	2% Fibrous (other)	25% Ca Carbonate 73% Non-fibrous (other)	None Detected
TEM RECOMMENDED					
4-10-AH-02 031413898-0002	CRAWLSPACE WINDOW/ WINDOW GLAZING COMPOUND - FACADE D	White/Green Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
4-10-AH-03 031413898-0003	FOUNDATION DAMP PROOFING - FACADE B	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
4-10-AH-04 031413898-0004	FOUNDATION DAMP PROOFING - FACADE D	Gray/Black Non-Fibrous Homogeneous		25% Quartz 72% Non-fibrous (other)	3% Chrysotile
4-10-AH-05 031413898-0005	SHEETROCK - SUNROOM	Gray Non-Fibrous Homogeneous	5% Cellulose	45% Gypsum 50% Non-fibrous (other)	None Detected
4-10-AH-06 031413898-0006	SHEETROCK - SUNROOM	Brown Non-Fibrous Homogeneous	5% Cellulose	60% Gypsum 35% Non-fibrous (other)	None Detected
4-10-AH-07 031413898-0007	JOINT COMPOUND - SUNROOM	White Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected

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 11606, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/12/2014 18:08:57

**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](mailto:manhattanlab@emsl.com)

EMSL Order: 031413898  
 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: 04/11/14 10:59 AM  
 Analysis Date: 4/12/2014  
 Collected: 4/10/2014

Project: 14-028.12T3/ CAPITAL STUDIO ARCHITECTS/ 50 MUMFORD COVE RD., GROTON/ CT

### 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
4-10-AH-08 031413898-0008	JOINT COMPOUND - SUNROOM	White Non-Fibrous Homogeneous		4% Mica 55% Ca Carbonate 41% Non-fibrous (other)	None Detected
4-10-AH-09 031413898-0009	SHEETROCK/ JOINT COMPOUND COMPOSITE - SUNROOM	Brown/Gray Fibrous Homogeneous	6% Cellulose	35% Gypsum 25% Ca Carbonate 34% Non-fibrous (other)	None Detected
4-10-AH-10 031413898-0010	SHEETROCK/ JOINT COMPOUND COMPOSITE - SUNROOM	Brown/White/Green Non-Fibrous Heterogeneous	12% Cellulose	30% Gypsum 20% Ca Carbonate 38% Non-fibrous (other)	None Detected
4-10-AH-11 031413898-0011	CERAMIC FLOOR TILE THINSET - SUNROOM	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
4-10-AH-12 031413898-0012	CERAMIC FLOOR TILE THINSET - SUNROOM	Gray Non-Fibrous Homogeneous		35% Quartz 40% Ca Carbonate 25% Non-fibrous (other)	None Detected
4-10-AH-13 031413898-0013	CERAMIC FLOOR TILE GROUT - SUNROOM	Gray Non-Fibrous Homogeneous		55% Quartz 15% Ca Carbonate 30% Non-fibrous (other)	None Detected
4-10-AH-14 031413898-0014	CERAMIC FLOOR TILE GROUT - SUNROOM	Gray Non-Fibrous Homogeneous		30% Quartz 30% Ca Carbonate 40% Non-fibrous (other)	None Detected

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-fragile 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 AHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11508, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/12/2014 18:08:57

**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](mailto:manhattanlab@emsl.com)

EMSL Order: 031413898  
 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: 04/11/14 10:59 AM  
 Analysis Date: 4/12/2014  
 Collected: 4/10/2014

Project: 14-028.12T3/ CAPITAL STUDIO ARCHITECTS/ 50 MUMFORD COVE RD., GROTON/ CT

### 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
4-10-AH-15 031413898-0015	BATTING INSULATION PAPER - ATTIC	Brown/Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
4-10-AH-16 031413898-0016	BATTING INSULATION PAPER - ATTIC	Brown/Black Fibrous Homogeneous	65% Cellulose 10% Glass	25% Non-fibrous (other)	None Detected

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 04/12/2014 18:08:57



**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](mailto:manhattanlab@emsl.com)

EMSL Order: 031413898  
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: 04/11/14 10:59 AM  
Analysis Date: 4/12/2014  
Collected: 4/10/2014  
Project: 14-028.12T3/ CAPITAL STUDIO ARCHITECTS/ 50 MUMFORD COVE RD., GROTON/ CT

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

**Report Comments:**

Sample Receipt Date: 4/11/2014      Sample Receipt Time: 10:59 AM  
Analysis Completed Date: 4/12/2014      Analysis Completed Time: 6:02 PM

**Analyst(s):**

Henry Akintunde PLM (8)

Jon Williams PLM (8)

**Samples reviewed and approved by:**

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 04/12/2014 18:08:57

**APPENDIX 3**

**XRF LEAD-BASED PAINT INSPECTION REPORTS**

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 05/29/14 11:17

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

PERFORMED AT: 50 Mumford Cove Road  
Groton, CT

INSPECTION DATE: 05/29/14

INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 02753

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

OPERATOR LICENSE: 002206

A Lead-Based Paint Hazard Assessment was performed for the interiors and exteriors.

SIGNED: \_\_\_\_\_



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

Date: \_\_\_\_\_

5/29/14

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

Inspection Date: 05/29/14 50 Mumford Cove Road  
Report Date: 5/29/2014 Groton, CT  
Abatement Level: 1.0  
Report No. S#02753 - 05/29/14 11:17  
Total Readings: 53 Actionable: 0  
Job Started: 05/29/14 11:17  
Job Finished: 05/29/14 13:08

---

Reading					Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm <sup>2</sup> )	Mode

---

Calibration Readings

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

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

Inspection Date: 05/29/14 50 Mumford Cove Road  
 Report Date: 5/29/2014 Groton, CT  
 Abatement Level: 1.0  
 Report No. S#02753 - 05/29/14 11:17  
 Total Readings: 53  
 Job Started: 05/29/14 11:17  
 Job Finished: 05/29/14 13:08

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
<b>Exterior Room 001 Facade A</b>									
039	A	Window	Rgt	Casing	P	Wood	white	-0.2	QM
040	A	Window	Rgt	Sash	P	Wood	white	-0.2	QM
038	A	Door	Ctr	Casing	P	Wood	white	0.4	QM
<b>Exterior Room 002 Facade B</b>									
044	B	Basmnt Win.	Ctr	Sash	P	Wood	white	0.3	QM
041	B	Basmnt Win.	Rgt	Sash	P	Wood	white	0.0	QM
042	B	Window	Rgt	Casing	P	Wood	white	-0.2	QM
043	B	Window	Rgt	Sash	P	Wood	white	-0.2	QM
045	B	Door	Lft		P	Wood	white	-0.1	QM
<b>Exterior Room 003 Facade C</b>									
047	C	Window	Ctr	Casing	P	Wood	white	0.0	QM
046	C	Window	Ctr	Sash	P	Wood	white	-0.1	QM
<b>Exterior Room 004 Facade D</b>									
050	D	Window	Lft	Casing	P	Wood	white	-0.2	QM
049	D	Window	Lft	Sash	P	Wood	white	-0.2	QM
048	D	Door	Rgt	Casing	P	Wood	red	-0.2	QM
<b>Interior Room 002 Living Rm</b>									
004	A	Door	Ctr		P	Wood	white	-0.2	QM
005	A	Door	Ctr	Casing	P	Wood	white	-0.1	QM
006	A	Door	Ctr	Jamb	P	Wood	white	-0.2	QM
007	A	Door	Ctr	Stop	P	Wood	white	0.0	QM
<b>Interior Room 004 Bath</b>									
008	-	Ceiling	Ctr		P	Dry wall	white	-0.3	QM
<b>Interior Room 005 Kitchen</b>									
009	-	Ceiling	Ctr		P	Dry wall	white	-0.5	QM
011	A	Wall	Ctr		P	Dry wall	white	-0.3	QM
010	C	Wall	Ctr		P	Dry wall	white	-0.5	QM
<b>Interior Room 006 Dining Rm</b>									
012	-	Ceiling	Ctr		P	Dry wall	white	-0.1	QM
013	D	Door	Ctr	Casing	P	Wood	beige	-0.1	QM
014	D	Door	Ctr	Jamb	P	Wood	beige	-0.2	QM
015	D	Door	Ctr	Stop	P	Wood	red	-0.3	QM
<b>Interior Room 007 Sun Porch</b>									

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
016	A	Door	Ctr	Casing	P	Wood	beige	0.0	QM
Interior Room 008 Bed Room 1									
017	A	Window	Ctr	Casing	P	Wood	beige	-0.2	QM
019	A	Window	Ctr	Sash	P	Wood	beige	0.0	QM
018	A	Window	Ctr	Sill	P	Wood	beige	-0.1	QM
020	B	Door	Rgt	Casing	P	Wood	beige	-0.2	QM
022	B	Door	Rgt	Jamb	P	Wood	beige	0.1	QM
021	C	Door	Rgt	Casing	P	Wood	beige	0.0	QM
Interior Room 009 Bath 2									
023	C	Door	Rgt		P	Wood	white	-0.2	QM
024	C	Door	Rgt	Casing	P	Wood	white	-0.1	QM
Interior Room 011 Bed Room 2									
025	-	Floor	Ctr		P	Wood	red	0.1	QM
026	-	Floor	Ctr		P	Wood	blue	-0.2	QM
027	-	Ceiling	Ctr		P	Dry wall	white	-0.3	QM
028	A	Door	Ctr	Casing	P	Wood	beige	0.0	QM
029	B	Door	Rgt	Casing	P	Wood	beige	0.0	QM
030	B	Door	Rgt	Jamb	P	Wood	beige	-0.3	QM
Interior Room 012 Bed Room 3									
033	A	Door	Rgt	Casing	P	Wood	beige	-0.3	QM
031	C	Wall	Ctr		P	Dry wall	white	-0.3	QM
032	C	Window	Ctr	Casing	P	Wood	beige	-0.2	QM
Interior Room 013 Hallway									
036	-	Stairs	Ctr	Stringers	P	Wood	blue	0.0	QM
037	-	Stairs	Ctr	Rails	P	Wood	white	-0.4	QM
034	-	Stairs	Ctr	Treads	P	Wood	blue	-0.2	QM
035	-	Stairs	Ctr	Risers	P	Wood	blue	0.1	QM
Calibration Readings									
001								1.1	TC
002								1.1	TC
003								1.0	TC
051								1.1	TC
052								1.0	TC
053								1.1	TC

---- End of Readings ----

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/10/14 10:22

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

PERFORMED AT: 50 Mumford Cove Drive  
Groton, CT

INSPECTION DATE: 04/10/14

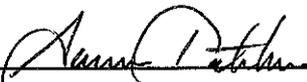
INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

OPERATOR LICENSE: 002186

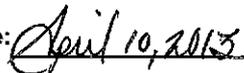
Lead-based paint screen to support the renovation for the components that will be impacted.

SIGNED:

  
\_\_\_\_\_

Aaron E. Hatcher  
Lead Inspector / Risk Assessor  
Eagle Environmental, Inc.  
8 South Main Street, Suite 3  
Terryville, CT 06786

Date:



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

Inspection Date: 04/10/14 50 Mumford Cove Drive  
 Report Date: 4/10/2014 Groton, CT  
 Abatement Level: 1.0  
 Report No. S#01364 - 04/10/14 10:22  
 Total Readings: 13  
 Job Started: 04/10/14 10:22  
 Job Finished: 04/10/14 11:04

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
<b>Exterior Room 001 Facade C</b>									
008	D	Facade	Lft		P	Wood	red	0.0	QM
007	D	Window	Lft	Sash	P	Wood	White	-0.2	QM
<b>Interior Room 001 Sunroom</b>									
004	A	Wall	Lft		P	Dry wall	White	-0.3	QM
010	A	Door	Lft		P	Wood	White	-0.1	QM
009	A	Door	Lft	Lft casing	P	Wood	White	0.0	QM
005	B	Door	Lft		P	Wood	No Paint	0.0	QM
006	D	Window	Lft	Sash	P	Wood	No Paint	-0.2	QM
<b>Calibration Readings</b>									
001								1.0	TC
002								0.9	TC
003								0.9	TC
011								0.9	TC
012								0.8	TC
013								0.9	TC
---- End of Readings ----									

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

Inspection Date: 04/10/14 50 Mumford Cove Drive  
Report Date: 4/10/2014 Groton, CT  
Abatement Level: 1.0  
Report No. S#01364 - 04/10/14 10:22  
Total Readings: 13 Actionable: 0  
Job Started: 04/10/14 10:22  
Job Finished: 04/10/14 11:04

---

Reading					Paint			Lead	
No.	Wall	Structure	Location	Member	Cond	Substrate	Color	(mg/cm <sup>2</sup> )	Mode

---

Calibration Readings

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

**APPENDIX 4**

**LEAD DUST AND SOIL 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
Company: Eagle Environmental, Inc.
Street: 8 South Main Street, Suite 3
City/State/Zip: Terryville, CT 06786
Phone: 860-589-8257 ext. 203
Project Name: Capital Studio Arch - Environmental Review
Project Location: 50 Mumford Cove Road, Groton

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)
Chalfield SOP-1988-02
TEM NOB (Gravimetric) NY 198.4
TEM MICROVAC
ASTM D 5755-95 (Quantitative)
TEM WIPE
ASTM D-8480-99
Qualitative
TEM WATER
EPA 100.1
EPA 100.2
NYS 198.2
Other

LEAD ANALYSIS

Flame Atomic Absorption
Wipe, SW846-7420
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
Soil, SW846-6010
Air, NIOSH 7300

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
Other

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
Man Made Vitreous Fibers - MMVF's
Synthetic Fiber Identification
Other

IAQ ANALYSIS

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

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

Table with columns: Client Sample # (S), Relinquished, Received, Date, Time, TOTAL SAMPLE #

S-7900 057A 3290





# 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](mailto:manhattanlab@emsl.com)

EMSL Order: 031420573  
CustomerID: EEVM50  
CustomerPO:  
ProjectID:

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

Phone: (860) 589-8257  
Fax: (860) 585-7034  
Received: 05/30/14 9:50 AM  
Collected: 5/29/2014

Project: 14-028.12T3/ CAPITAL STUDIO ARCHITECTS - ENVIRONMENTAL REVIEW/ 50 MUMFORD COVE ROAD, GROTON/ CT

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
5/29 KL SOIL 01	0001	5/29/2014	5/30/2014	<40 mg/Kg
Site: VEGETABLE GARDEN/ MID YARD				

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 05/31/2014 01:31:27

031420582



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
Company: Eagle Environmental, Inc.
Street: 8 South Main Street, Suite 3
City/State/Zip: Terryville, CT 06786
Phone: 860-589-8257 ext. 203
Project Name: Capital Studio Arch - Environmental Review
Project Location: 50 Mumford Cove Road, Groton

TURNAROUND TIME

3 Hours, 6 Hours, 24 Hours (checked), 48 Hours, 72 Hours, 4 Days, 5 Days, 6-10 Days

SAMPLE MATRIX

Air, Bulk, Soil, Wipe (checked), 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 (checked) ASTM (checked) 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 (checked) ASTM (checked) non ASTM
Soil, SW846-6010
Air, NIOSH 7300

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 Coll, 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

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

IAQ ANALYSIS

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

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

Client Sample # (S) 5/29 KL 01 5/29 KL 10 TOTAL SAMPLE # 10
Relinquished: [Signature] Date: 5/29/14 Time: PM
Received: [Signature] Date: 5/29/14 Time: PM
Relinquished: [Signature] Date: 5/29/14 Time: PM
Received: [Signature] Date: 5/30/14 Time: 9:58 AM





# EMSL Analytical, Inc.

307 West 38th Street, New York, NY 10018  
Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031420582  
CustomerID: EEVM50  
CustomerPO:  
ProjectID:

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

Phone: (860) 589-8257  
Fax: (860) 585-7034  
Received: 05/30/14 9:48 AM  
Collected: 5/29/2014

Project: 14-028.12T3/ CAPITAL STUDIO ARCH - ENVIRONMENTAL REVIEW/ 50 MUMFORD COVE ROAD, GROTON/ CT

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
5/29 KL 01 Site: FLOOR AT ENTRY Desc: LIVING RM	0001	5/29/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/29 KL 02 Site: WINDOW SILL Desc: LIVING RM	0002	5/29/2014	5/30/2014	120 in <sup>2</sup>	<12 µg/ft <sup>2</sup>
5/29 KL 03 Site: FLOOR AT ENTRY Desc: KITCHEN	0003	5/29/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/29 KL 04 Site: WINDOW SILL Desc: KITCHEN	0004	5/29/2014	5/30/2014	155 in <sup>2</sup>	<9.3 µg/ft <sup>2</sup>
5/29 KL 05 Site: FLOOR AT ENTRY Desc: DINING RM	0005	5/29/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/29 KL 06 Site: FLOOR AT ENTRY Desc: SUN PORCH	0006	5/29/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/29 KL 07 Site: FLOOR AT ENTRY Desc: BEDROOM 1	0007	5/29/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/29 KL 08 Site: WINDOW SILL Desc: BEDROOM 1	0008	5/29/2014	5/30/2014	99 in <sup>2</sup>	<15 µg/ft <sup>2</sup>
5/29 KL 09 Site: FIELD BLANK	0009	5/29/2014	5/30/2014	n/a	<10 µg/wipe
5/29 KL 10 Site: FIELD BLANK	0010	5/29/2014	5/30/2014	n/a	<10 µg/wipe

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
or other approved signatory

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

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

Initial report from 05/30/2014 14:31:56

**APPENDIX 5**  
**RADON TESTING REPORTS**

**Radon testing not performed. Structure will be elevated with lowest level of building not in contact with the ground.**

**APPENDIX 6**  
**MOLD INSPECTION FORMS**



## MOLD MOISTURE READING FORM

Eagle Project No: 14-028-1273 Date: 4-10-14 Inspector: AH

Facility Address: 50 MUMFORD CREEK DR. GROUTON

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
SUNROOM	Wall	S/A	0.1	✓		
	WINDOW CASING	WD	8.3	✓		
	LOWER WALL	WD	7.1	✓		
	WINDOW	WD	9.0	✓		
ATTIC	RAFTER	WOOD	9.7	✓		
	ROOF DECK	WOOD	12.8		✓	
BED	SKYLIGHT CASING	WOOD	6.4	✓		
CRAWLSPACE	Wall	Block	< 99.9			✓
	JOIST	WOOD	16.0	✓		
	Ceiling Deck	WOOD	16.0	✓		
	JOIST	WOOD	17.2		✓	

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.



**APPENDIX 7**

**ABATEMENT AND CONSULTING COST ESTIMATE**

**HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES**

**APPLICATION NO. 1743**

**50 MUMFORD COVE ROAD**  
**GROTON, CONNECTICUT**

**ASBESTOS ABATEMENT COST ESTIMATE**

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
DAMP PROOFING ON FOUNDATION	140	\$ 35.00 SF	\$ 4,900.00
SUBTOTAL			\$ 4,900.00
ASBESTOS ABATEMENT CONTINGENCY			\$ 490.00
ASBESTOS TOTAL			\$ 5,390.00

**MICROBIAL CONTAMINATION REMEDIATION COST ESTIMATE**

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
DRYING OF ROOF SHEATHING AND JOISTS	1	\$ 4,500.00 EACH	\$ 4,500.00
SUBTOTAL			\$ 4,500.00
MICROBIAL REMEDITION CONTINGENCY			\$ 450.00
MICROBIAL REMEDIATION TOTAL			\$ 4,950.00

**HAZARDOUS MATERIALS ABATEMENT SUBTOTAL** \$ 10,340.00

**HAZARDOUS MATERIALS CONSULTING COST ESTIMATE**

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
PROJECT OVERSIGHT	7	\$70.00 HOUR	\$ 490.00
PROJECT MANAGEMENT	2	\$130.00 HOUR	\$ 260.00
PROJECT CLOSEOUT REPORTING	2	\$70.00 HOUR	\$ 140.00
CLERICAL	2	\$50.00 HOUR	\$ 100.00
SUBTOTAL			\$ 890.00
CONSULTING CONTINGENCY			\$ 89.00
CONSULTING TOTAL			\$ 979.00

**GRAND TOTAL** \$ 11,319.00

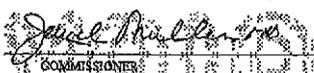
**APPENDIX 8**  
**EAGLE ENVIRONMENTAL, INC. LICENSES**  
**AND LABORATORY CERTIFICATES**

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH  
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT  
THE INDIVIDUAL NAMED BELOW IS LICENSED  
BY THIS DEPARTMENT AS A  
LEAD CONSULTANT CONTRACTOR

EAGLE ENVIRONMENTAL INC.

LICENSE NO.  
001726  
CURRENT THROUGH  
04/30/15  
VALIDATION NO.  
03-794089

  
SIGNATURE

  
COMMISSIONER

CERT# L-600 - 740

**CHEMSCOPE TRAINING DIVISION  
LEAD INSPECTOR/RISK ASSESSOR REFRESHER  
8 HOUR TRAINING CERTIFICATE**

**Aaron Hatcher**

**531 North Main Street, Bristol CT**

Has attended an 8 hour course on the subject discipline on  
03/12/2013 and has passed a written and hands on skills examination.

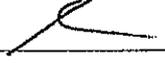
The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

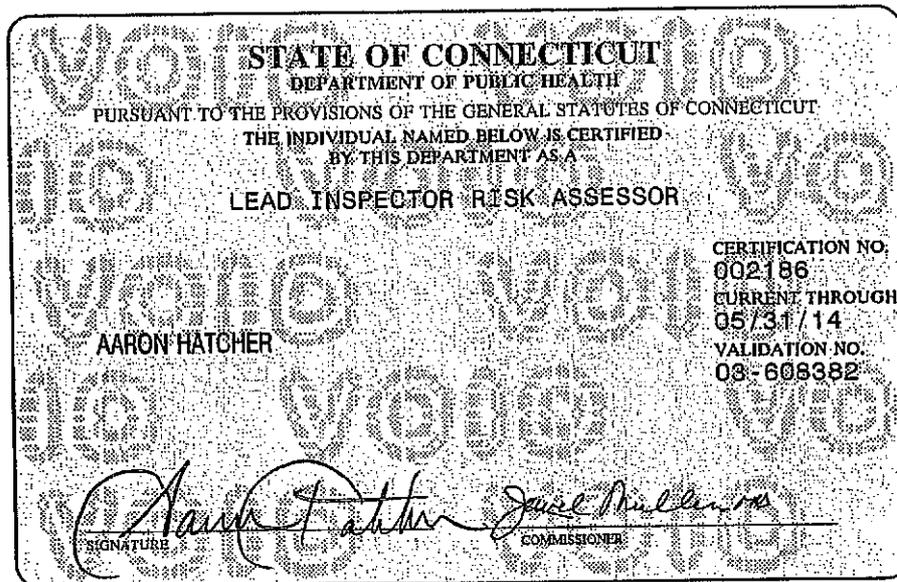
**Examination Date: 03/12/2013**

**Expiration Date: 03/12/2014**

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

  
\_\_\_\_\_  
Ronald D. Arena or Scott Arena  
Training Director Training Manager

Chem Scope, Inc.  
15 Moulthrop Street  
North Haven CT 06473  
(203) 865-5805



# ENVIRONMENTAL TRAINING AND ASSESSMENT

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

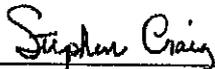
Awarded To

**Kristen Liljehult**  
269 Baileyville Road  
Middlefield, CT 06455

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

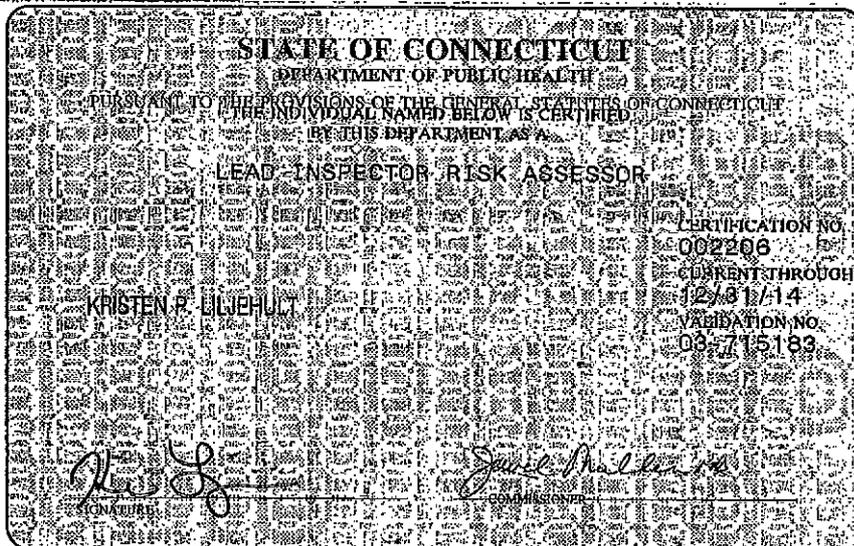
Course Date: 1/2/2014  
Examination Date: 1/2/2014

Examination Grade: 88%  
Certificate Number: LI/RAR-00350  
Expiration Date: 1/2/2015



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

## Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

### EMSL ANALYTICAL, INC. - MANHATTAN, NY

LOCATED AT 307 West 38th Street IN New York, NY 10018

AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

#### ASBESTOS

#### Environmental Health & Housing

##### Examination For:

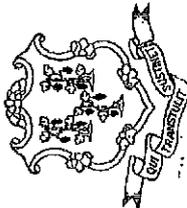
Bulk - Identification (PLM, TEM)  
Air - Fiber Counting (PCM, TEM)  
Water - TEM

##### Examination For:

Lead in Paint  
Lead Paint in Soil  
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2016 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH DATED AT HARTFORD, CONNECTICUT, THIS 3<sup>rd</sup> DAY OF September 2014



Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS  
CHIEF, ENVIRONMENTAL HEALTH SECTION

# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**Aaron E. Hatcher**

*has successfully completed the*  
**Asbestos Site Inspector Refresher Training  
Asbestos Accreditation Under TSCA Title II  
40 CFR Part 763**

*conducted by*

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

*Gregory J. Morsch*  
Principal Instructor  
December 12, 2013  
Date of Course  
December 12, 2014  
Expiration Date

*Gregory J. Morsch*  
Regional Manager  
STAR-4751  
Certificate Number  
December 12, 2013  
Examination Date



State of Connecticut

## Lookup Detail View

Name

Name

AARON HATCHER

License Information  
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	845	06/31/2014	05/01/2008	Aaron Hatcher	ACTIVE	None

# State of Connecticut, Department of Public Health Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

## EMSL ANALYTICAL, INC. - MANHATTAN, NY

LOCATED AT 307 West 35<sup>th</sup> Street IN New York, NY 10018  
AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall WHO HAS BEEN DESIGNATED  
BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF  
APPROVAL AS FOLLOWS:

### ASBESTOS

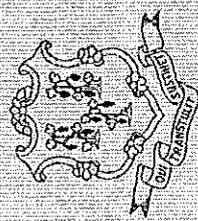
### Environmental Health & Housing

Examination For:  
Bulk - Identification (PLM, TEM)  
Air - Fiber Counting (PCM, TEM)  
Water - TEM

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

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 4<sup>th</sup> DAY OF October, 2012



Registration No.

PH-0170

**SUZANNE BLANCAFLOR, MS**  
CHIEF, ENVIRONMENTAL HEALTH SECTION