



Consulting
Engineers and
Scientists

May 31, 2016
Project 1403900-35-1000

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

**Re: National Environmental Policy Act (NEPA) Statutory Checklist for 32
Massachusetts Road, South Lyme, CT**

Dear Mr. Folino,

GEI Consultants, Inc. (GEI), at the request of Eagle Environmental Inc. (Eagle), has completed National Environmental Policy Act (NEPA) requirements associated with the rehabilitation of the above-listed property under the HUD-DR Program. GEI conducted a site-visit, reviewed information specific to the proposed, funded rehabilitation activities associated with the property, and completed a NEPA Statutory Checklist. Based on the information gathered, it appears that this project cannot convert to Exempt because one or more statutes/authorities requires consultation or mitigation. Because the property is within a floodzone and located within the designated coastal zone, Connecticut Department of Energy and Environmental Protection (CTDEEP) program-wide General Permit and local zoning review are required for the project. Program-wide General Permit is in effect for this project. State Historic Preservation Office (SHPO) determination of the proposed rehabilitation plan for this property is pending at this time. Complete consultation and asbestos 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 860.368.5340.

Sincerely,

GEI CONSULTANTS, INC.

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

Barry Giroux, P.E., LEP
Senior Consultant

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

Kimberly Bradley
Project Manager/Senior Ecologist

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**STATUTORY CHECKLIST [§58.35(a) activities]
for Categorical Exclusions and Environmental Assessments**

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

**Project Name and Identification/Location: Owner-occupied Rehabilitation and Rebuilding Program
Application #2440 32 Massachusetts Road, South Lyme, CT**

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The State Historic Preservation Office (SHPO) has received the proposed rehabilitation plan for review (project scope letter from Capital Studio Architects, dated 8/17/2015). SHPO determination is pending at this time.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM) for the area shows the project site is located within a special flood hazard area, Zone VE, "1% annual flood chance" New London County, CT- Map #09011C0467J (Figure 3). Connecticut Department of Energy and Environmental Protection (CTDEEP) Program-wide Permit is in effect.
3. Wetland Protection [58.5 (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The project site is not located within a wetland according to US Fish and Wildlife Service (USFWS) National Wetlands Inventory map (NWI; 2012; Figure 4). No impacts to wetlands are anticipated.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The residence is located within the Coastal Boundary, and portion of the property may be within the Coastal Jurisdiction Line contour/elevation of 2.9 ft. for the Town of Old Lyme (CTDEEP 2012; Figure 5). Review by local Planning & Zoning is required (activities must be consistent with Coastal Management Act C.G.S Section 22a-100(b)). Activities water ward of Coastal Jurisdiction Line require authorization from CTDEEP OLISP Permitting section as defined in C.G.S. Section 22a-359(c); review possible. No impacts to coastal resources are anticipated.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utility and sewer connections will be removed and reconnected with to new elevation. No impacts to water quality are anticipated. CTDEEP Bureau of Water Protection and Land Reuse map titled “Connecticut Aquifer Projection Areas” dated December 2013 does not identify aquifer protection areas in the Town of Old Lyme, CT (Figure 6). The project site is not located in an EPA Sole Source Aquifer (http://www.epa.gov/region1/eco/drinkwater/pc_solesource_aquifer.html).
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>CTDEEP State and Federal Listed Species and Significant Natural Communities Map for New London County indicates the presence of listed species or significant natural communities within the vicinity of the site (CTDEEP NDDB 2014; Figure 7). However, program-specific parameters provide that if no sandy beaches are present onsite, no further NDDB review is required. Project site is a shoreline property with a bulkhead/seawall but with no sandy beach present (see Photo Log).</p> <p>USFWS Information, Planning and Conservation System (IPaC) indicates the potential presence of two (2) threatened species, Red knot (<i>Calidris canutus rufa</i>) and Northern long-eared bat (<i>Myotis septentrionalis</i>), on the project site (Attachment A). Further review of USFWS Endangered Species Consultation Project Review for Projects with Federal Involvement indicates the project site lacks suitable habitat for Red knot and Northern long-eared bat (Attachment B). Therefore, no threatened or endangered species are expected to occur within the project site (Attachment C).</p>
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eightmile River is the only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov ; 2012; Figure 8). Project site is not within one mile of the designated area.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residential rehabilitation; will result in no quantifiable increase in air pollution.
9. Farmland Protection [58.5(h)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Natural Resources Conservation Service (NRCS) mapping indicates the site is primarily underlain by Hinckley gravelly sandy loam, a Statewide Important Farmland Soil (Figure 9). However, the property is not currently used for farming, and therefore, the proposed project will not involve the conversion of any prime, unique, statewide, or locally important farmland.
Manmade Hazards: 10 A. Thermal Explosive [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is in a residential neighborhood and proposed project will not result in any increase to density.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals - Permits Obtained*	Conditions and/or Mitigation Actions Required	
10 B. Noise [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some short term construction-related noise is expected. No impact on long term contributions to ambient noise is expected.
10 C. Airport Clear Zones [58.5 (i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is outside of any airport clear zone.
10 D. Toxic Sites [58.5 (i)(2)(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is not listed on EPA Superfund National Priorities or CERCLA List or equivalent State list, is not located within 3,000 feet of a toxic or solid waste landfill, does not have an underground storage tank (which is not a residential fuel tank) and is not known or suspected to be contaminated by toxic chemicals or radioactive materials. Based on attached environmental database report prepared by Ecolog ERIS ltd (Attachment D), site inspection, and owner interview.
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The rehabilitation work at the project site is compatible with the surrounding residential use and no adverse human health and environmental effects on minority or low income population are expected. The site is not located in an Environmental Justice Community as the Town of Old Lyme is not listed a Distressed Municipality by CTDECD (Attachment E).
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FEMA FIRM for the site shows the project site is located within a special flood hazard area, Zone VE, "1% annual flood chance New London County, CT- Map #09011C0467J (Figure 3). The assisted homeowners are required to maintain flood insurance for not less than five years from the date of the assistance. DOH to track and maintain.
12 B. Coastal Barriers [58.6(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The project site is not located within a designated FEMA FIRM Coastal Barrier Resource Zone. New London County, CT- Map #09011C0467J (Figure 3).
12 C. Airport Clear Zone Notification [58.6(d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is outside of any airport clear zone. Project does not involve purchase or sale of a property as such 24 CFR 58.6(d).
13. A Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Solid waste disposal provided by the city. Proposed project will not result in an increase in density.
13 B. Fish and Wildlife [U.S.C. 661-666c]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The results of Lead Paint Survey are in the Hazardous Material Inspection Report, dated 5/20/2016, prepared by Eagle Environmental Inc. submitted by Capital Studio Architects along with the Statutory Checklist). None of the

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
							materials tested were found to contain toxic levels of lead paint. No further action is required regarding lead-based paint.
13 D. Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	The results of Asbestos-containing Material Survey are included in the Hazardous Material Inspection Report, dated 5/20/2016, prepared by Eagle Environmental Inc. (submitted by Capital Studio Architects along with the Statutory Checklist). The Asbestos Abatement work plan details the work practices to be followed during construction to address asbestos-containing materials at the project site.
13 E. Radon [50.3 (i) 1]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radon testing was not performed at the project site as the proposed rehabilitation includes elevation and the lowest level of the building and will not be in contact with the ground; Hazardous Material Inspection Report, dated 5/20/2016, prepared by Eagle Environmental Inc. (submitted by Capital Studio Architects along with the Statutory Checklist).
13 F. Mold	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The procedures and results of the microbial testing for mold spores are included in the Hazardous Material Inspection Report, dated 5/20/2016, prepared by Eagle Environmental Inc. (report submitted by Capital Studio Architects along with the Statutory Checklist). No visible suspect mold growth was detected at the time of inspection. Moisture testing indicated wood materials in the crawl space, staining and moisture readings in sheetrock in the Living Room, and blistering sheetrock in the sunroom could be at risk for future mold growth. Any components that are to remain must be dried as part of the renovation project.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Program-wide General Permit for CDBG-DR Program activities with CTDEEP are in effect.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rehabilitation work at project site does not propose any activity water ward of the coastal jurisdiction line as defined in C.G.S. Section 22a-359(c) as activities will be limited to the footprint of the current residence.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Portions of the project site may be located within the Coastal Jurisdiction Zone based upon the coastal jurisdiction contour/elevation for the Town of Old Lyme (2012). CTDEEP Tidal Wetlands Mapping, as defined in C.G.S. Section 22a-29 and Section 22a-93(7)(e), identifies the project as outside a Tidal Wetland Zone (Figure 5; CTDEEP 1999).
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No apparent inland wetlands on or adjacent to the site based review of NWI data (Figure 4) and NRCS soils data (Figure 6), as well as field observations. Project rehabilitation work is not expected to impact wetlands/watercourses.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
14 E. Various Municipal Zoning Approvals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No change of use or building expansion that would require zoning approvals noted.

DETERMINATION:

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

Prepared by:

Barry Giroux

5/31/16

Barry Giroux, PE, LEP
Senior Consultant, GEI Consultants, Inc.

Date

Responsible Entity or designee Signature:

Hermia Delaire

Hermia Delaire, CDBG-DR Program Manager

6/14/2016

Date

PHOTO LOG

NEPA Statutory Checklist
32 Massachusetts Rd.
South Lyme, CT

Photo 1: Front of property; looking North



Photo 2: Front and western side of property; looking NE.

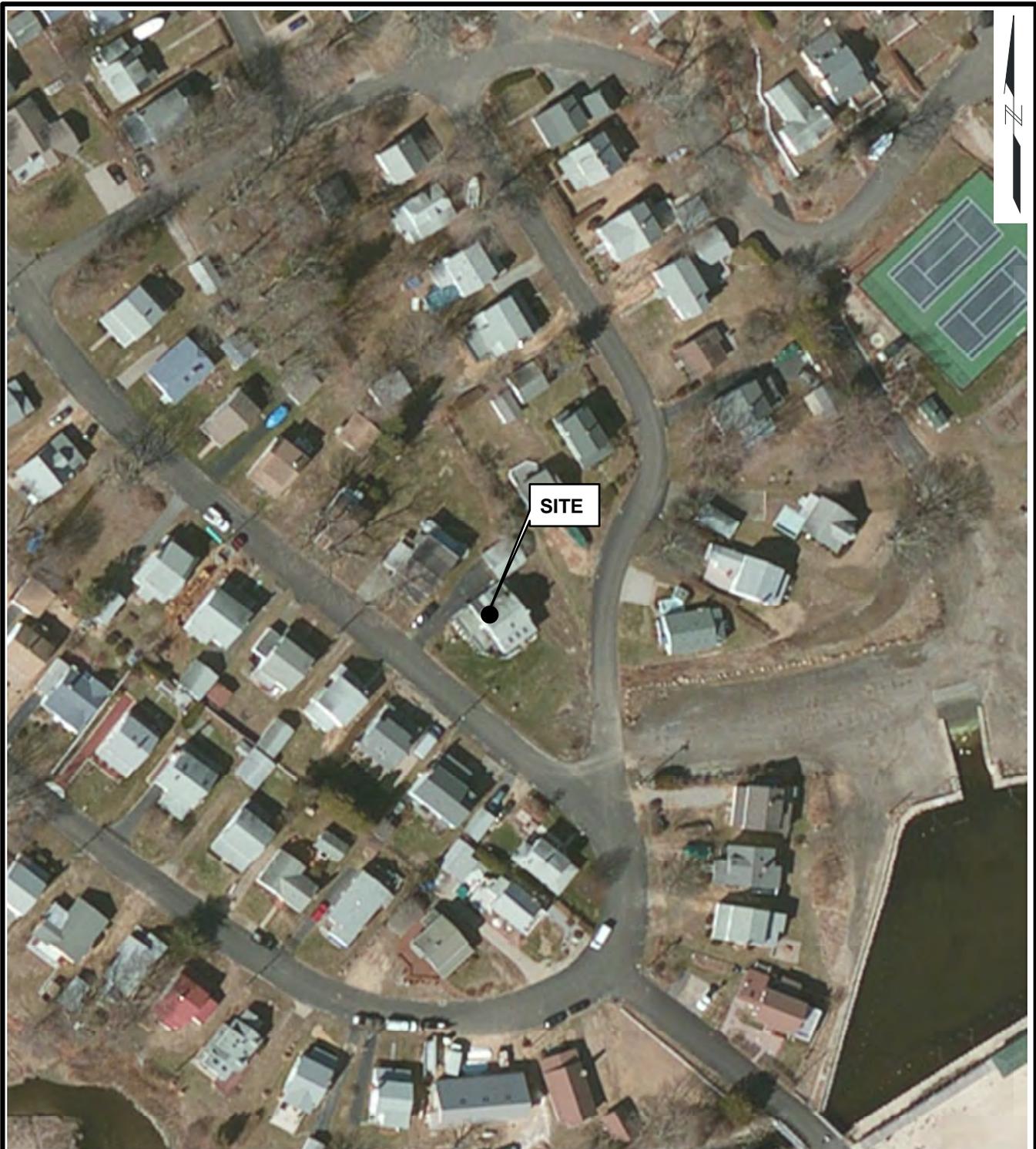


Photo 3: The eastern side of the property; looking NW.

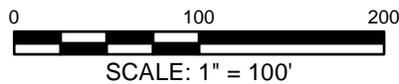


Photo 4: The northern side of the property; looking SW.





SOURCE:
1. 2014 ESRI WORLD IMAGERY



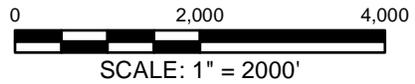
<p>National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment 32 Massachusetts Rd South Lyme, Connecticut</p>	 <p>GEI Consultants</p>	<p>SITE DETAIL</p>	
<p>Eagle Environmental, Inc. Terryville, Connecticut</p>	<p>Project 1403900</p>	<p>November 2015</p>	<p>Fig. 1</p>



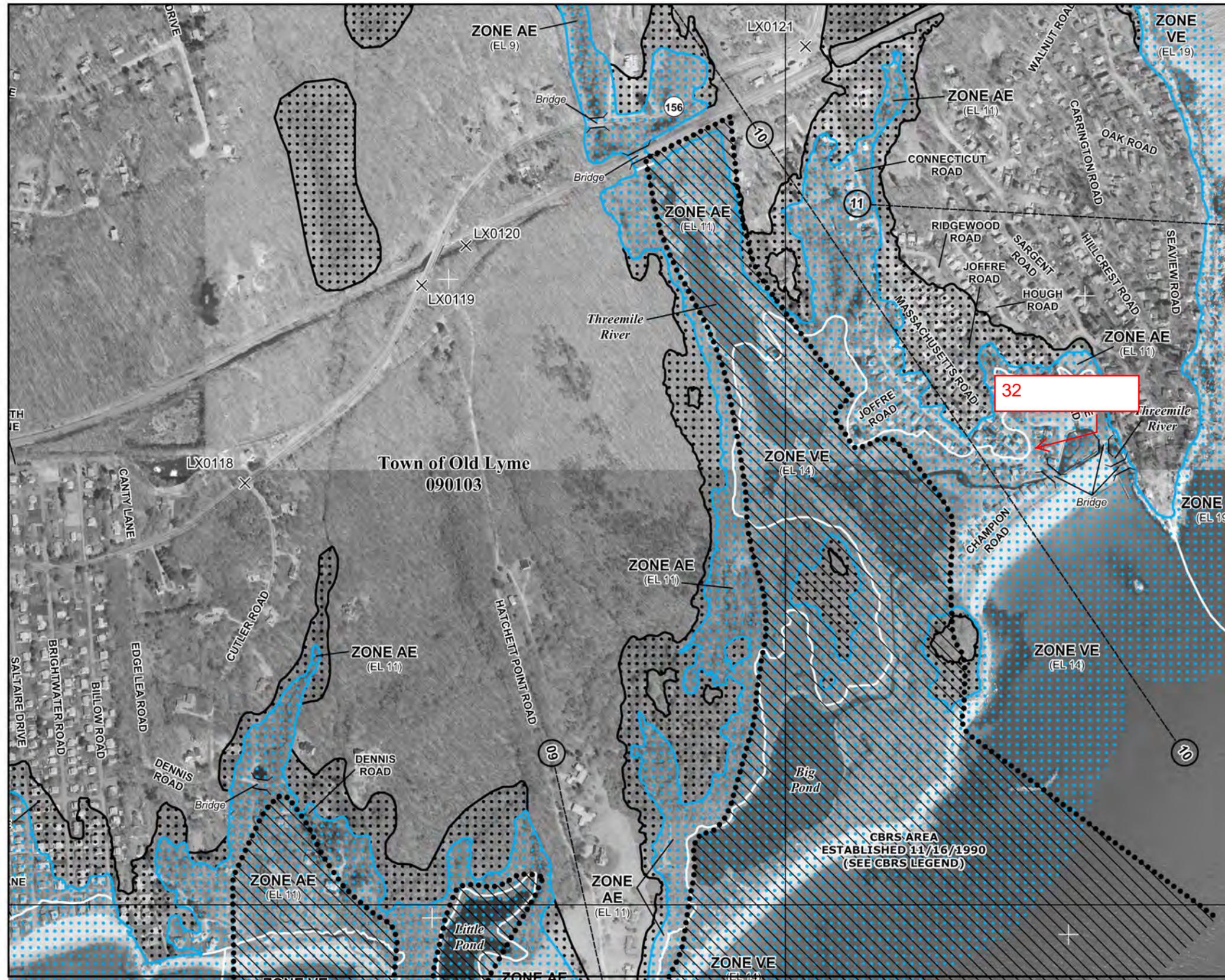
Copyright: © 2013 National Geographic Society, i-cubed

SOURCE:

1. USGS TOPOGRAPHIC MAP OLD LYME QUADRANGLE ACCESSED VIA ARCGISONLINE.COM.



<p>National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment 32 Massachusetts Rd South Lyme, Connecticut</p>	 <p>GEI Consultants</p>	<p>USGS TOPOGRAPHIC MAP</p>
<p>Eagle Environmental, Inc. Terryville, Connecticut</p>	<p>Project 1403900</p>	<p>November 2015 Fig. 2</p>





MAP SCALE 1" = 500'

250 0 500 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0467J

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 467 OF 554
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
EAST LYME, TOWN OF	090096	0467	J
OLD LYME, TOWN OF	090103	0467	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
09011C0467J

MAP REVISED
AUGUST 5, 2013

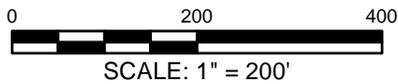
Federal Emergency Management Agency

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



SOURCE:

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



LEGEND

Wetland Type

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
32 Massachusetts Rd
South Lyme, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



NATIONAL WETLANDS INVENTORY (NWI)

Project 1403900

November 2015

Fig. 4



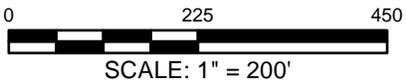
2.9' Elevation Contour NAVD88

SITE



SOURCE:

1. TIDAL WETLANDS (1990s)/COASTAL AREAS FROM CT DEEP GIS.
2. TOWN OF OLD LYME 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
 32 Massachusetts Rd
 South Lyme, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

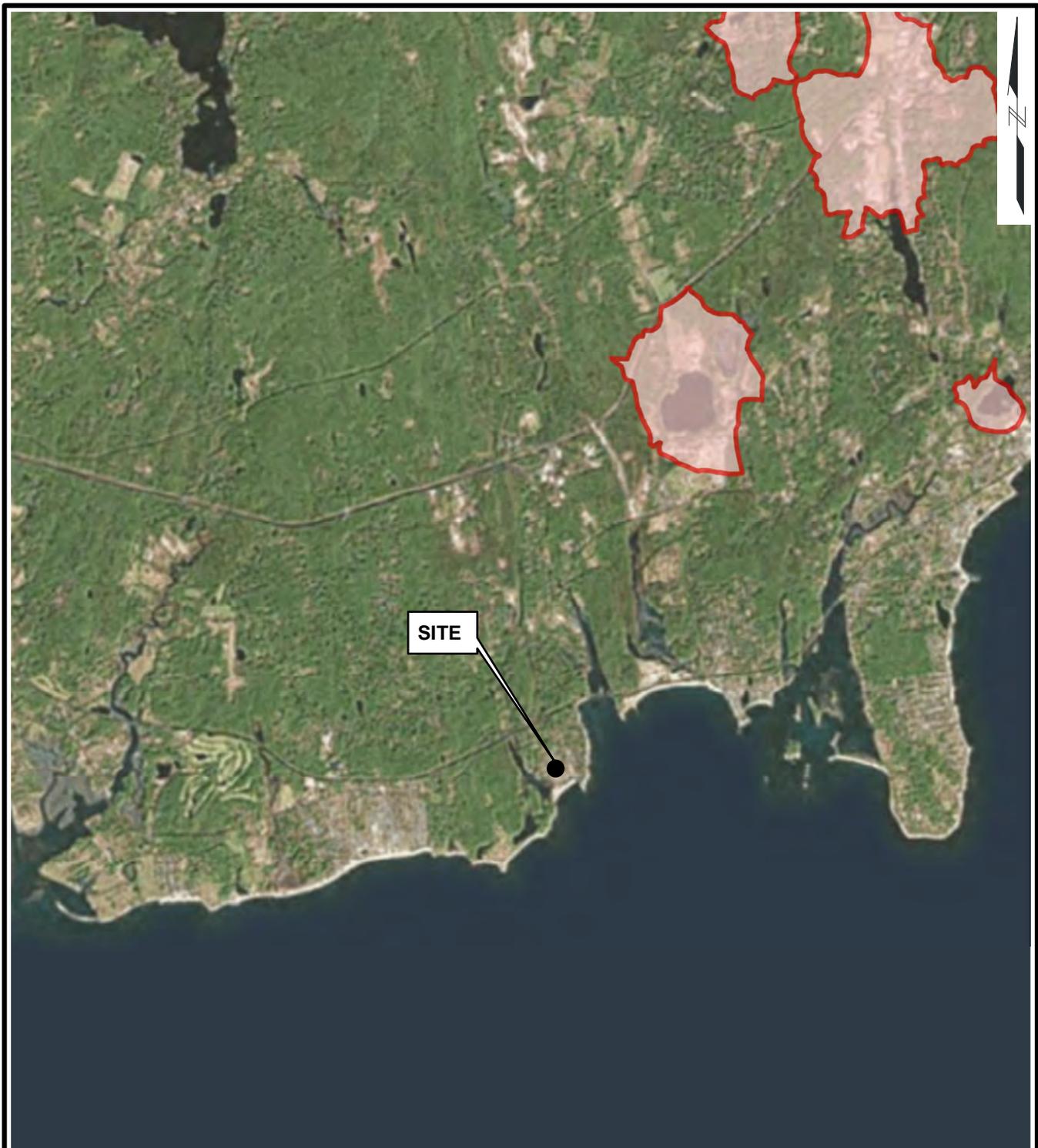


Project 1403900

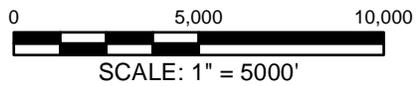
COASTAL RESOURCES

November 2015

Fig. 5



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



LEGEND

 Final Adopted Aquifer Protection

National Environmental Policy Act (NEPA) Statutory
 Checklist and Environmental Assessment
 32 Massachusetts Road
 South Lyme, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

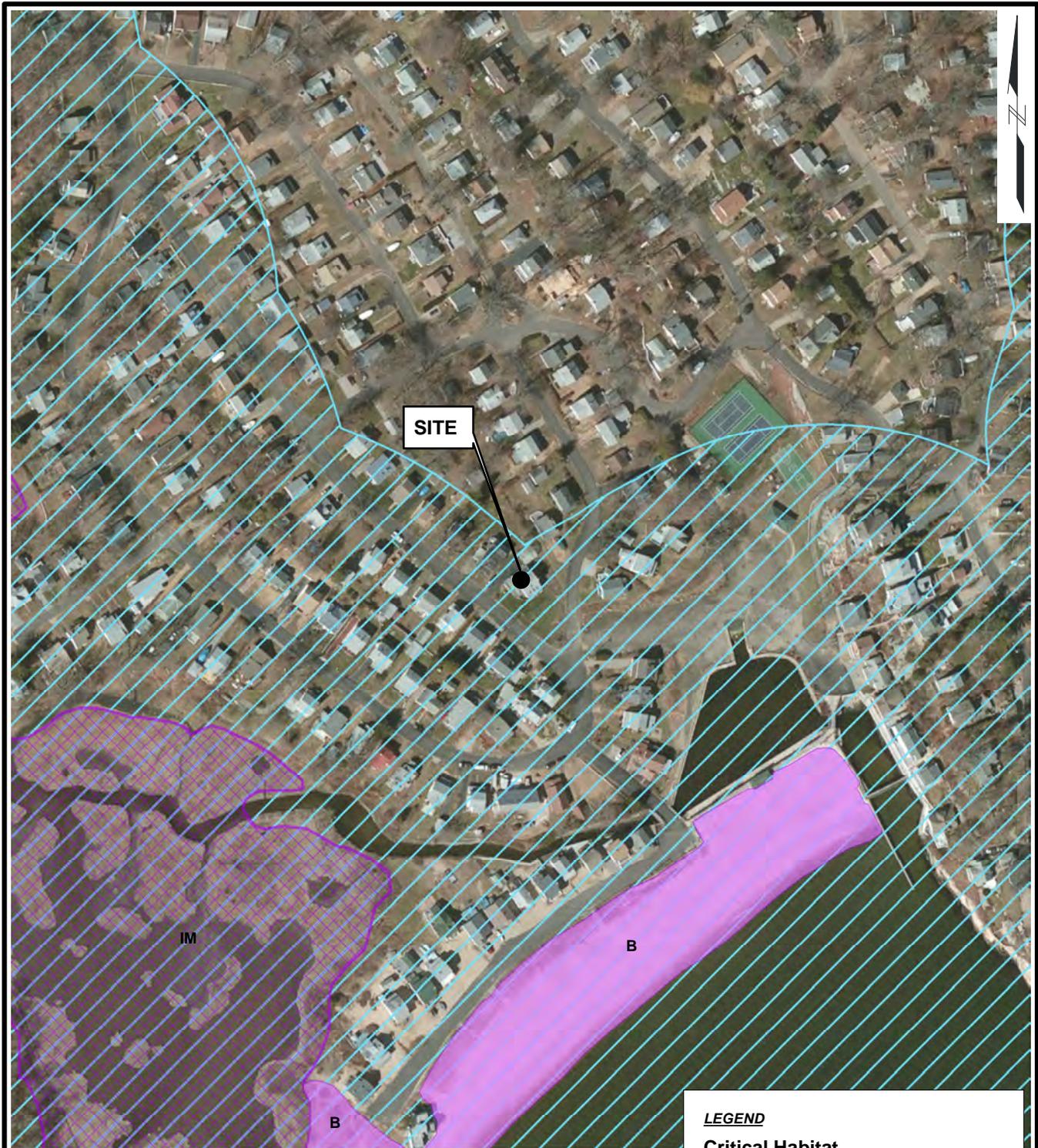


Project 1403900

**AQUIFER PROTECTION
 AREA**

November 2015

Fig. 6



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



SCALE: 1" = 200'

LEGEND

Critical Habitat

-  Estuarine, Beachshore, B
-  Estuarine, Intertidal Marsh, IM
-  Natural Diversity Area

National Environmental Policy Act (NEPA) Statutory
 Checklist and Environmental Assessment
 32 Massachusetts Rd
 South Lyme, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut



Project 1403900

**NATURAL DIVERSITY
 DATABASE AREA AND
 CRITICAL HABITAT**

November 2015

Fig. 7

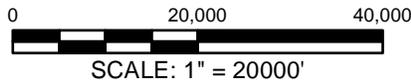


EIGHT MILE RIVER

SITE

SOURCE:

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



LEGEND

— WATERBODY LINE

National Environmental Policy Act (NEPA) Statutory
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 32 Massachusetts Rd
 South Lyme, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

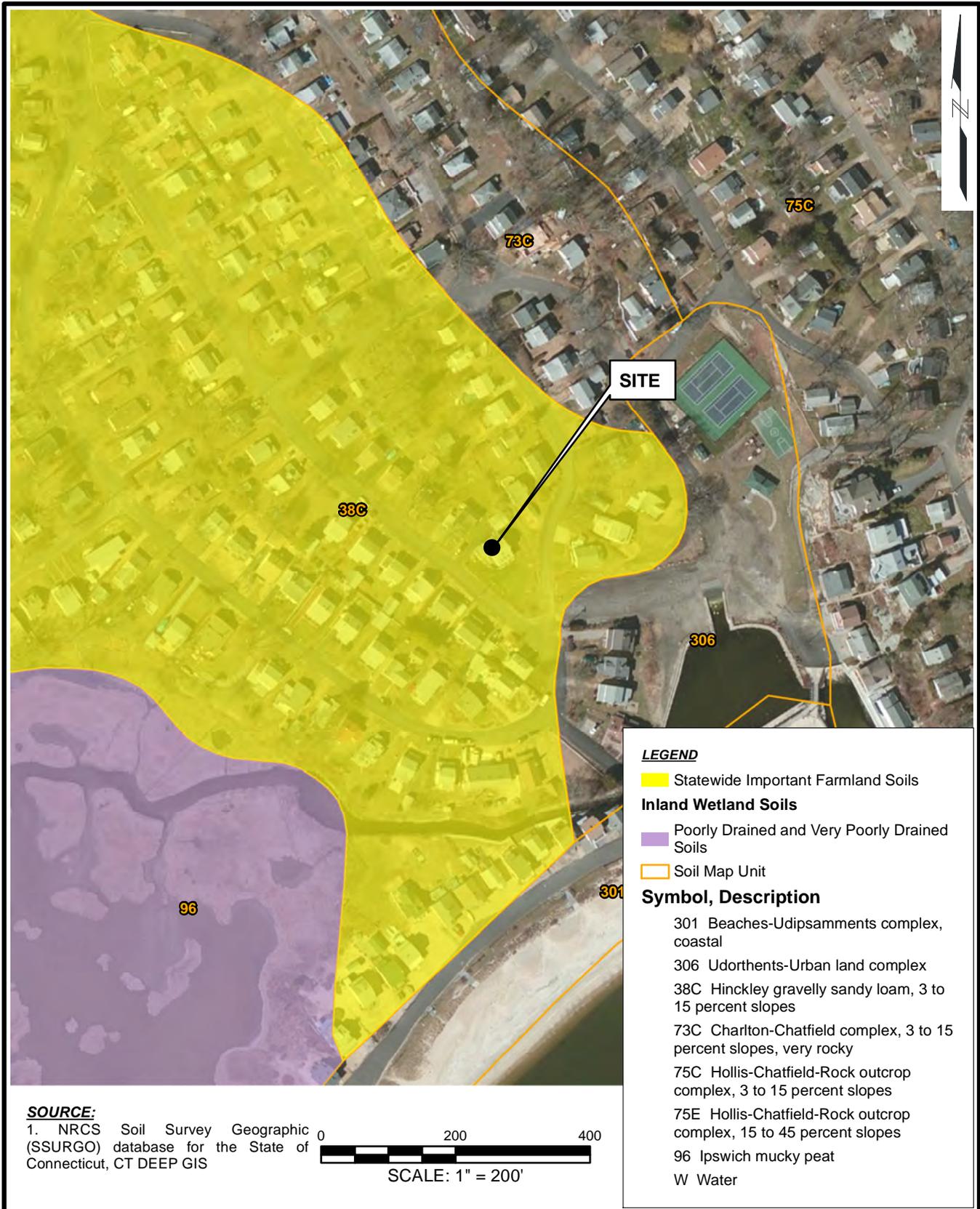


Project 1403900

DISTANCE TO WILD AND SCENIC RIVER

November 2015

Fig. 8



National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
 32 Massachusetts Rd
 South Lyme, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

Project 1403900

NRCS SOILS

November 2015

Fig. 9



United States Department of the Interior



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

Consultation Code: 05E1NE00-2015-SLI-1536

August 07, 2015

Event Code: 05E1NE00-2015-E-01970

Project Name: 2440 Frascarelli

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: 2440 Frascarelli

Official Species List

Provided by:

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

Consultation Code: 05E1NE00-2015-SLI-1536

Event Code: 05E1NE00-2015-E-01970

Project Type: ** OTHER **

Project Name: 2440 Frascarelli

Project Description: 32 Massachusetts Road, South Lyme

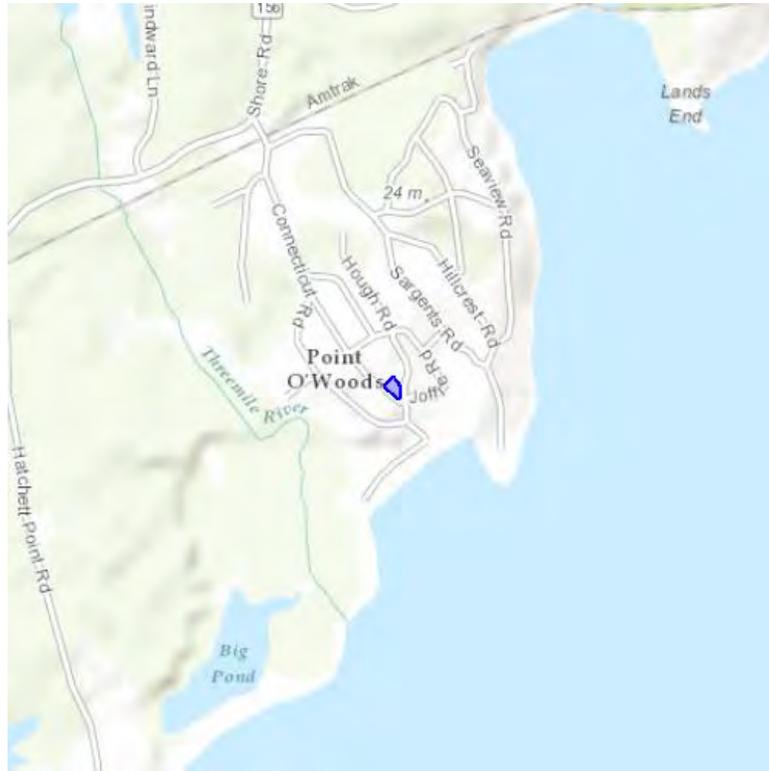
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your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



United States Department of Interior
Fish and Wildlife Service

Project name: 2440 Frascarelli

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-72.25427180528641 41.29214481658411, -72.2544702887535 41.29234029943222, -72.25471705198288 41.292126678970575, -72.25433886051178 41.291878797746776, -72.25425839424133 41.29191104251208, -72.25427180528641 41.29214481658411)))

Project Counties: New London, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 2440 Frascarelli

Endangered Species Act Species List

There are a total of 2 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	Status	Has Critical Habitat	Condition(s)
Red Knot (<i>Calidris canutus rufa</i>)	Threatened		
Mammals			
Northern long-eared Bat (<i>Myotis septentrionalis</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: 2440 Frascarelli

Critical habitats that lie within your project area

There are no critical habitats within your project area.

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN CONNECTICUT**

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

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

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

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



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

January 7, 2014

To Whom It May Concern:

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

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

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

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

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office



DATABASE REPORT



Project Property: *32 Massachusetts Rd South Lyme
South Lyme
South Lyme CT*

P.O. Number:

Report Type: *Screen Report*

Order #: *20151119121*

Requested by: *GEI Consultants Inc.*

Date: *November 19, 2015*

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

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Executive Summary

Property Information:

Project Property: 32 Massachusetts Rd South Lyme
South Lyme South Lyme CT

P.O. Number:

Coordinates:

Latitude: 41.292044
Longitude: -72.254414
UTM Northing: 4,574,813.93
UTM Easting: 729,897.28
UTM Zone: UTM Zone 18T

Elevation: 25 FT

Order Information:

Order No.: 20151119121
Date Requested: 19/11/2015
Requested by: GEI Consultants Inc.
Report Type: Screen Report

Ancillary Products:

Executive Summary: Report Summary

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

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

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

Additional Environmental Records

Federal				
FINDS/FRS	Y	0	0	2
TRIS	Y	0	0	0
HMIRS	Y	0	0	0
NCDL	Y	0	0	0
ODI	Y	0	0	0
IODI	Y	0	0	0
TSCA	Y	0	0	0
HIST TSCA	Y	0	0	0

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

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

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

Total: 0 3 6

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>
--------------------	-----------	--------------------------	----------------	--------------------	-------------------------	------------------------

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>
1	FINDS/FRS	87 CONNECTICUT RD.PT.O'WOODS BEACH	87 CONNECTICUT RD.PT.O'WOODS BEACH OLD LYME CT 06371	S/0.05	-9	11
1	FINDS/FRS	87 CONNECTICUT ROAD	87 CONNECTICUT ROAD OLD LYME CT 06371	S/0.05	-9	11
2	ERNS		67 CONECTICUT RD SOUTH LIME CT	WSW/0.08	-5	12
2	SPILLS		67 connecticut road OLD LYME CT Case NO / Status: 200508229 / CLOSED	WSW/0.08	-5	13
3	SPILLS		32 Sargents Rd. OLD LYME CT Case NO / Status: 201101298 / CLOSED	NE/0.10	8	15
4	SPILLS		13 Champion Rd Old Lyme CT Case NO / Status: 201205958 / CLOSED	S/0.11	-25	16

Executive Summary: Summary by Data Source

Standard

Federal

ERNS - Emergency Response Notification System

A search of the ERNS database, dated Oct 7, 2015 has found that there are 1 ERNS site(s) within approximately .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>
<u>Lower Elevation</u>	<u>Address</u> 67 CONECTICUT RD SOUTH LIME CT	<u>Direction</u> WSW	<u>Distance mi</u> .079789414786	<u>Map Key</u> 2

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Sep 24, 2015 has found that there are 2 FINDS/FRS site(s) within approximately .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>
<u>Lower Elevation</u>	<u>Address</u> 87 CONNECTICUT ROAD 87 CONNECTICUT ROAD OLD LYME CT 06371	<u>Direction</u> S	<u>Distance mi</u> .048668017578	<u>Map Key</u> 1
	87 CONNECTICUT RD.PT.O'WOODS BEACH	S	.048668017578	1

State

SPILLS - Spill Incident Tracking System (SITS)

A search of the SPILLS database, dated Aug 20, 2015 has found that there are 3 SPILLS site(s) within approximately .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>
--------------------------------------	-----------------------	-------------------------	---------------------------	-----------------------

	32 Sargents Rd. OLD LYME CT	NE	.100773748727	<u>3</u>
--	--------------------------------	----	---------------	--------------------------

Case NO / Status: 201101298 / CLOSED

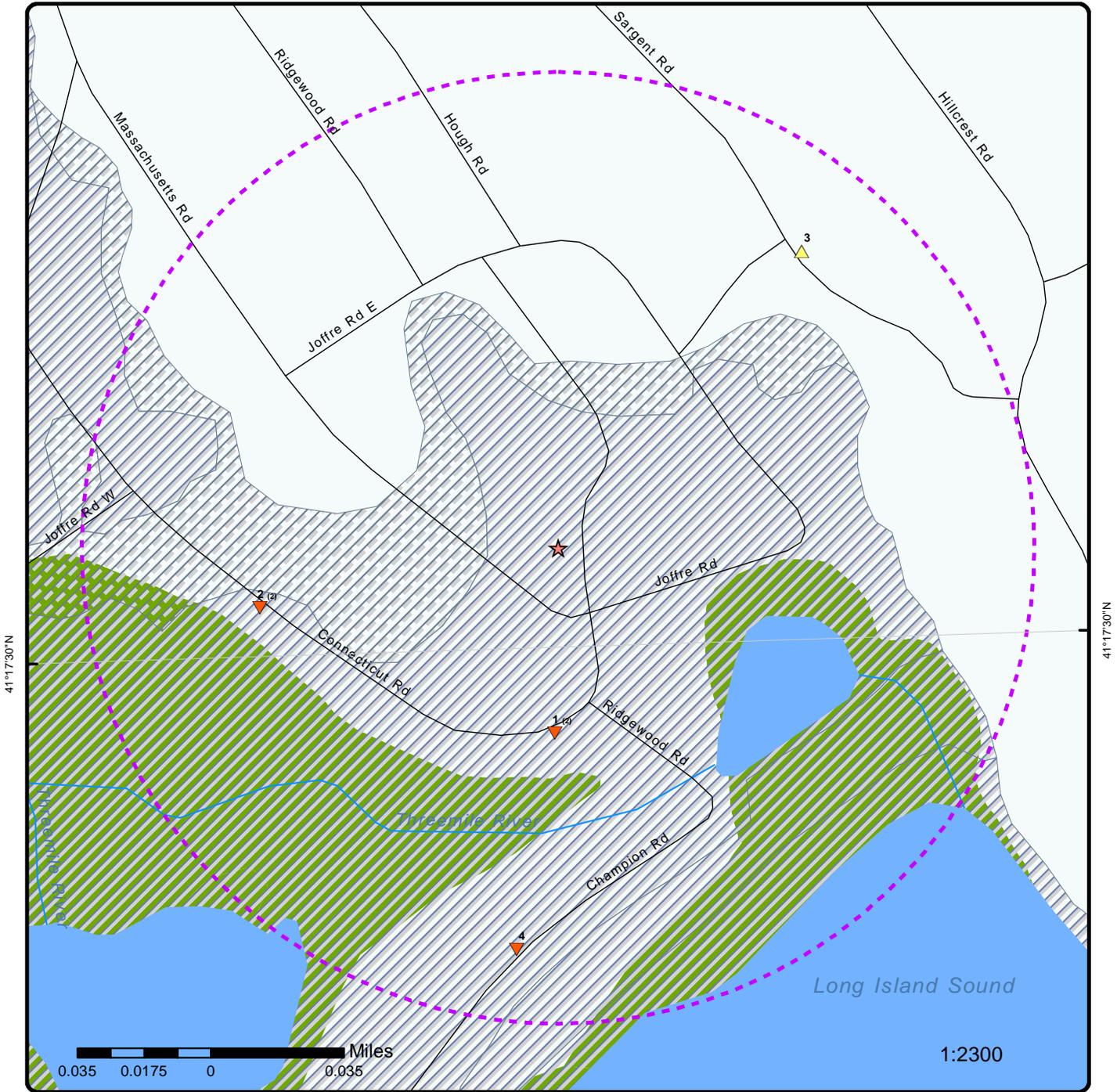
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
-------------------------------	-----------------------	-------------------------	---------------------------	-----------------------

	67 connecticut road OLD LYME CT	WSW	.079789414786	<u>2</u>
--	------------------------------------	-----	---------------	--------------------------

Case NO / Status: 200508229 / CLOSED

	13 Champion Rd Old Lyme CT	S	.106091343667	<u>4</u>
--	-------------------------------	---	---------------	--------------------------

Case NO / Status: 201205958 / CLOSED



Map

Order No: 20151119121

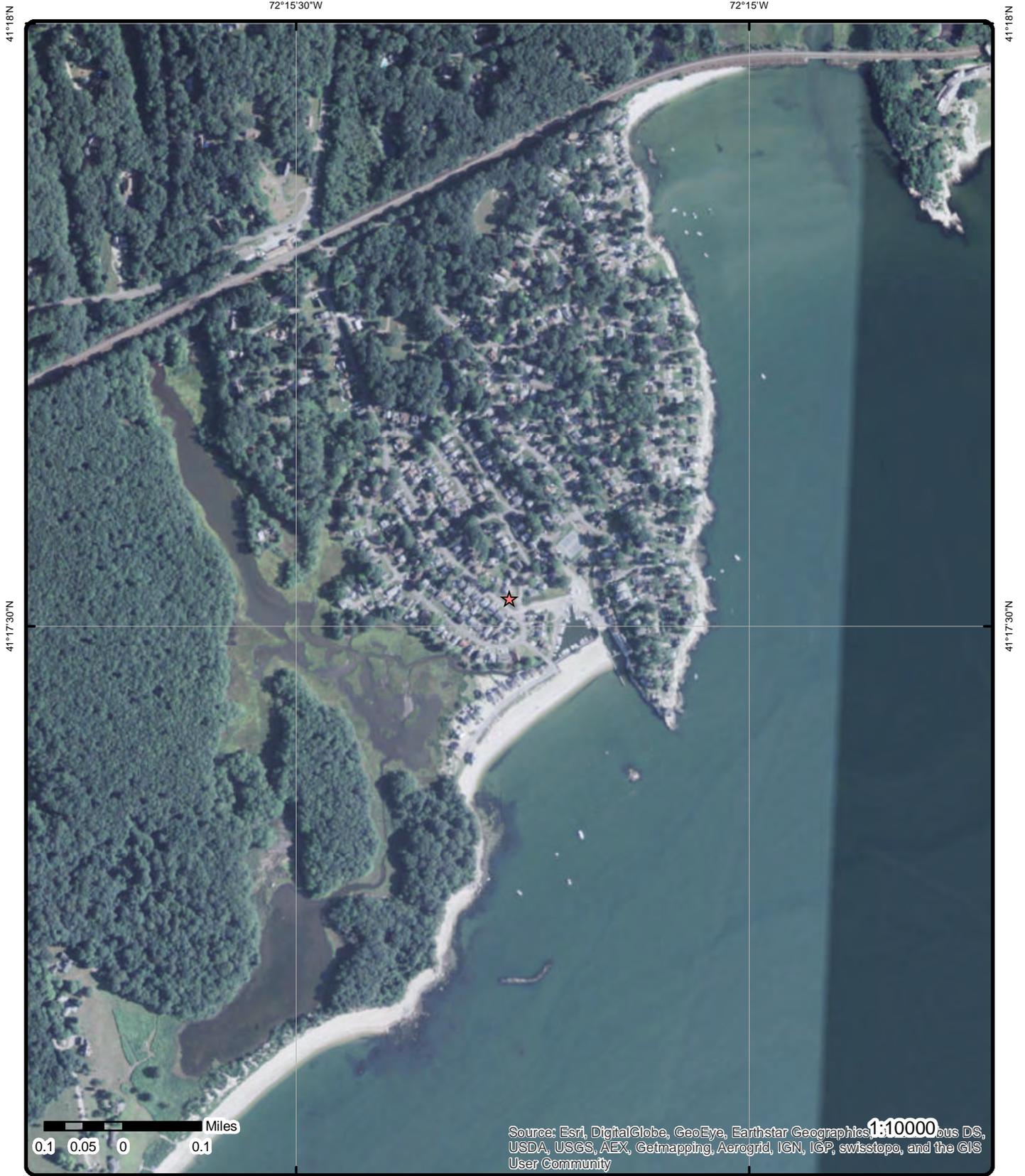
Address: South Lyme, South Lyme, CT US



Project Property	Major Highways	County Boundary	Indian Reserve Land
Buffer Outline	Major Highways Ramps	State Boundary	Historic Fill
Eris Sites with Higher Elevation	Major Roads	500 Year Flood Zone	State Brownfield Sites
Eris Sites with Same Elevation	Major Roads Ramps	100 Year Flood Zone	State Brownfield Areas
Eris Sites with Lower Elevation	Secondary Roads	National Priority List Sites	State Superfund Areas:Dept. of Defense
Eris Sites with Unknown Elevation	Secondary Roads Ramps	National Wetland	State Superfund Areas:NPL
Rails	Local Roads and Ramps	FWS Special Designation Areas	WQARF Areas

Source: © 2012 ESRI

© Ecolog ERIS Ltd



Aerial

Order No: 20151119121

Address: South Lyme, South Lyme, CT US

Source: ESRI World Imagery, Updated October 2014

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2015 Distressed Municipalities

Ranked by Score

	Total Scores	
Waterbury	1407	1
Ansonia	1384	2
New Britain	1374	3
New London	1364	4
Hartford	1341	5
Bridgeport	1312	6
Derby	1307	7
Putnam	1307	8
Naugatuck	1294	9
Meriden	1275	10
Sprague	1263	11
Bristol	1257	12
Windham	1239	13
East Hartford	1225	14
Torrington	1222	15
North Canaan	1209	16
Norwich	1208	17
Enfield	1192	18
New Haven	1183	19
Killingly	1172	20
Griswold	1169	21
Stafford	1166	22
Plymouth	1161	23
Preston	1157	24
West Haven	1156	25

2015 Distressed Municipalities

In town alphabetical order

	Total Scores
Ansonia	1384
Bridgeport	1312
Bristol	1257
Derby	1307
East Hartford	1225
Enfield	1192
Griswold	1169
Hartford	1341
Killingly	1172
Meriden	1275
Naugatuck	1294
New Britain	1374
New Haven	1183
New London	1364
North Canaan	1209
Norwich	1208
Plymouth	1161
Preston	1157
Putnam	1307
Sprague	1263
Stafford	1166
Torrington	1222
Waterbury	1407
West Haven	1156
Windham	1239

Prepared by DECD Research

8/25/2015



EAGLE Environmental, Inc.

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

May 20, 2016

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
32 Massachusetts Road
South Lyme, Connecticut 06371
Application #2440
Eagle Project No. 15-015.10T10**

Dear Mr. Holmes:

Please find the Environmental Assessment Report conducted at 32 Massachusetts Road located in South Lyme, 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 inspection and risk assessment, which included the interior and exterior of the entire building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

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

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

Sincerely,
Eagle Environmental, Inc.


Report Prepared By:
Aaron E. Hatcher
Project Manager


Report Reviewed By:
Peter J. Folino
Principal

\\Eaglesvr\public\2015 Files\2015 Reports\CSA - SSS\Super Storm Sandy\32 Massachusetts Rd, South Lyme\32 Massachusetts Rd - Enviro Assessment Rept.doc

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Appendix 4	Dust and Soil Sample Laboratory Reports
Appendix 5	Mold Inspection Forms
Appendix 6	Abatement and Consulting Cost Estimates
Appendix 7	Eagle Environmental Inc. Licenses and Laboratory Certificates

1. INTRODUCTION

On November 13, 2015, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 32 Massachusetts Road in South Lyme, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint inspection and risk assessment and a visual inspection for microbial contamination.

1.1 Inspection Area Description

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection were determined by reviewing the planned renovation work provided in CSA's Project Scope dated August 17, 2015. For the purpose of this project the following areas were inspected:

- Above ground crawlspace
- Exterior facades
- Interior Rooms

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

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

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

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

The asbestos inspection was performed by Aaron E. Hatcher; a State of Connecticut licensed Asbestos Inspector (license #000645).

2.2 Lead-based Paint Inspection

A lead-based paint inspection and risk assessment 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 inspection and risk assessment was performed by Michelle Rudy; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002197).

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

2.3 Radon Testing

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

2.4 Mold Inspection

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

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

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

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

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

3.1.2 Bulk Sampling

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

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

3.1.3 Bulk Sample Analysis

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

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

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method for 32 Massachusetts Road in South Lyme, 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

EAGLE ENVIRONMENTAL, INC.

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

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

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 32 Massachusetts Road in South Lyme, Connecticut.

3.2 Lead-based Paint

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

Due to the level of proposed Federal Funding for this project (greater than \$25,000 per unit), a comprehensive lead-based paint inspection was conducted. A visual inspection was performed to evaluate the condition of surface coating associated with the building. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

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

3.3 Radon Testing

The site building will be reconstructed on piers 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 four (4) bulk samples of suspect ACM were collected and three (3) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

The following materials were confirmed to be ACM:

- White caulk at chimney and façade junction

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.

If it is required that the chimney is removed to support the elevation of the building, the identified asbestos-containing caulk must be abated.

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

All regulated friable and regulated non-friable ACM must be removed prior to renovation/repair activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections must be performed within each abatement area at the completion of the abatement work. The visual inspections must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual criteria prior to removing and disposing of any and all material that was in direct contact with the asbestos-containing material.

4.2 Lead-based Paint Inspection Results

A total of two-hundred one (201) XRF readings were collected during the comprehensive lead-based paint inspection of the building. From the two-hundred one (201) readings, none were found to contain lead-based paint.

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

No children under the age of six (6) years old resided at this site building at the time of the inspection. However, the Federal funding for this project is anticipated to be greater than \$25,000.00 per unit. This residence is considered target housing (housing constructed prior to 1978) by the USEPA. All concealed components that were not tested and will be impacted to support the proposed work shall be tested prior to work or assumed to contain toxic levels of lead-based paint and all remediation work shall be performed in compliance with the USEPA Renovation, Remodeling and Painting (RRP) Rule as prescribed by 40 CFR Part 745.80 Subpart E. Including USEPA RRP Firm Certification, USEPA RRP Renovator Certification, Disclosure and Notification, Placement of Warning Signs, Lead-Safe Work Practice, Cleaning and Post Remediation Lead Dust Clearance by an approved USEPA method.

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 Risk Assessment

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

4.2.2 Dust Hazards

A total of ten (10) dust wipes were collected at the time of inspection. No lead dust hazards were identified at the sampled locations. Eagle Environmental, Inc. recommends that the residents/tenants continue to follow their regular cleaning regimen.

4.2.3 Soil Hazards

A total of three (3) soil samples were collected at the time of inspection.

No soil-lead hazards were identified in the sampled locations. The owner may maintain the ground cover in its current condition.

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

4.3 Radon

Radon testing was not required as the building will be elevated and placed on piers and the lowest level of the building will no longer be in direct contact with the ground.

4.4 Mold

The homeowner informed the inspectors that the crawlspace basement flooded during Hurricane Sandy. The inspector observation indicated that the crawlspace, which was recently re-insulated, had a relative humidity of 49.4%. Although there were no visible microbial spore growth within the crawlspace, the inspector did confirm that a malodor was present.

The sheetrock ceiling within the Living Room (003) was confirmed to having pre-existing water damage. The water staining and damage was not a direct effect from the storm, but rather faulty bathroom plumbing that was addressed by the building owner. No visible mold spore growth was identified in the observed area. The relative humidity was at 46.6% and the impacted surface area was dry at the time of the inspection.

Within the Sunroom (005) the inspector observed blistering on the sheetrock around the skylight. The water intrusion may stem from faulty flashing on the exterior side of the skylight. No mold spore growth was identified in the observed area. The relative humidity was at 43.6% and the impacted surface area was dry at the time of inspection.

There was no evidence of water intrusion, staining or damage on the ceilings or walls within the remaining rooms of the dwelling.

The mold inspection forms are provided in Appendix 5.

5. COST ESTIMATES

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

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

The cost estimates are provided in Appendix 8.

TABLE I

ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
32 MASSACHUSETTS ROAD
SOUTH LYME, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Facade D	White caulk at chimney and façade junction	11-13-AH-03	MISC	4% Chrys			YES	40 LF	NF
		11-13-AH-04		DNA					
KEY									
DNA = DID NOT ANALYZE									
NAD = NO ASBESTOS DETECTED									
F = FRIABLE									
NF = NON-FRIABLE									
TSI = THERMAL SYSTEMS INSULATION									
SURF = SURFACING MATERIAL									
MISC = MISCELLANEOUS MATERIAL									
				ANALYTICAL METHODS					
				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					
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION									

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
32 MASSACHUSETTS ROAD
SOUTH LYME, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			ACM
				PLM	PLM PC	TEM NOB	
Façade B, D	Grey caulk at Façade Electrical Service Penetration	11-13-AH-01	MISC	NAD			NO
		11-13-AH-02		NAD			
KEY							
DNA = DID NOT ANALYZE							
NAD=NO ASBESTOS DETECTED							
F = FRIABLE							
NF = NON-FRIABLE							
TSI = THERMAL SYSTEMS INSULATION							
SURF = SURFACING MATERIAL							
MISC = MISCELLANEOUS MATERIAL							
				ANALYTICAL METHODS			
				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			
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION							

APPENDIX 1
FLOOR PLANS

CAPITAL STUDIO ARCHITECTS

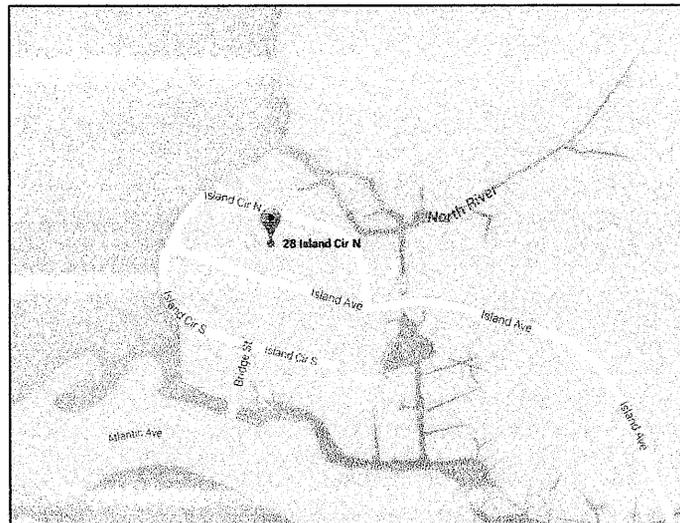
32 MASSACHUSETTS ROAD
SOUTH LYME, CONNECTICUT

EAGLE PROJECT NUMBER: 15-015.10T10

INDEX OF DRAWINGS

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

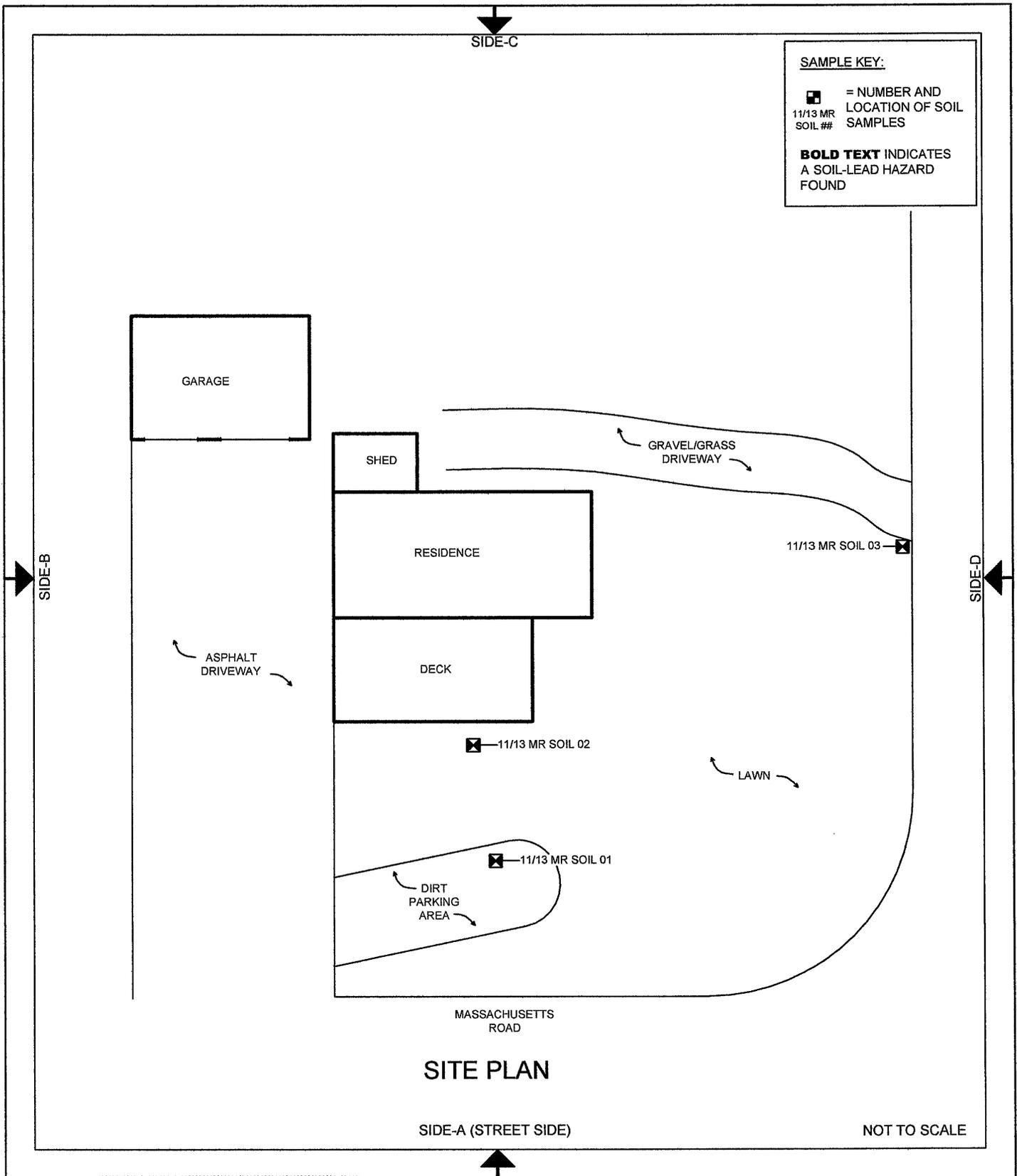
LOCATION MAP



APRIL 8, 2016



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



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

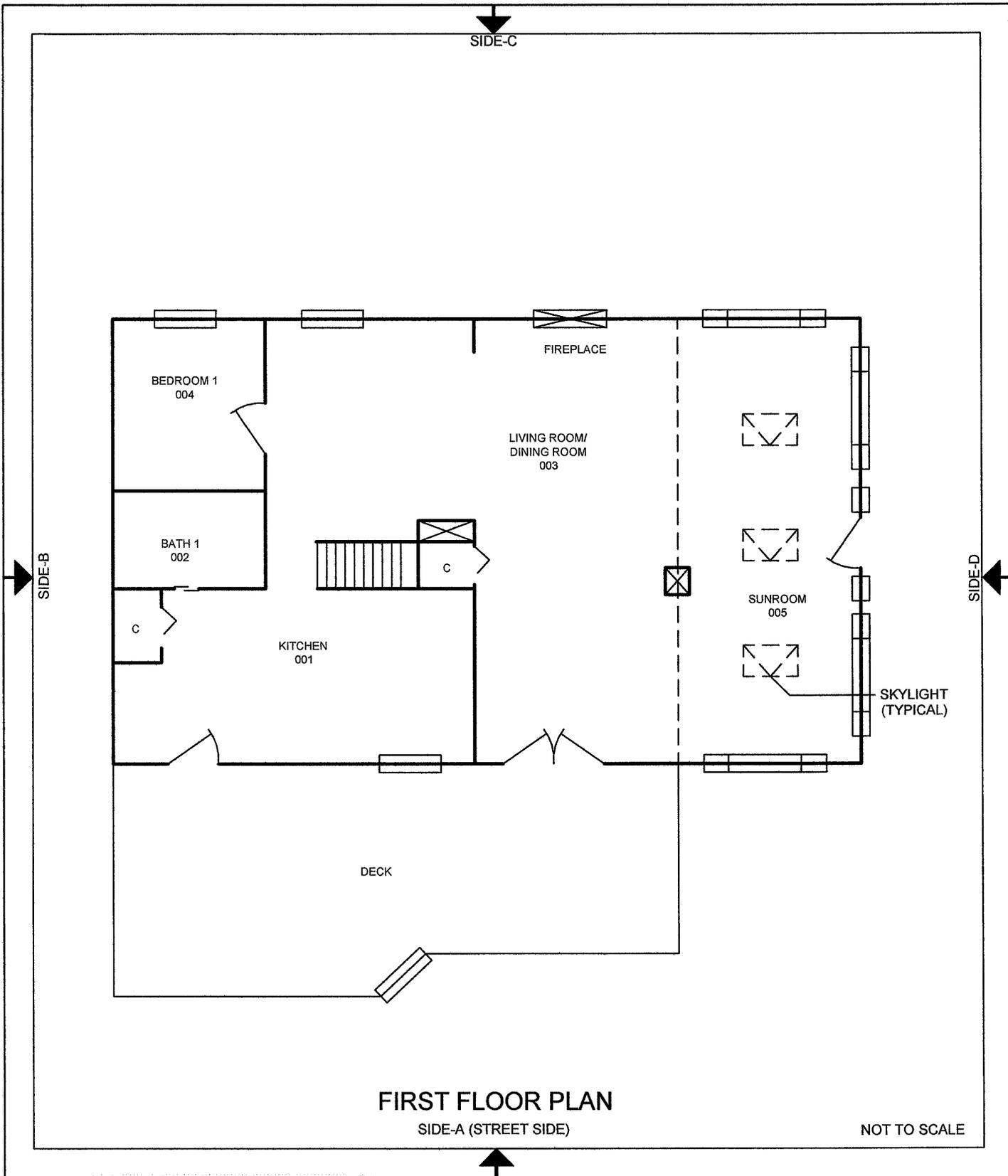
SHEET NO.

SP-1

SHEET 1 OF 3

DATE: 04/08/2016
PROJECT NO.: 15-015.10T10
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
32 MASSACHUSETTS ROAD
SOUTH LYME, CONNECTICUT



FIRST FLOOR PLAN

SIDE-A (STREET SIDE)

NOT TO SCALE



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

SHEET NO.

FP-1

SHEET 2 OF 3

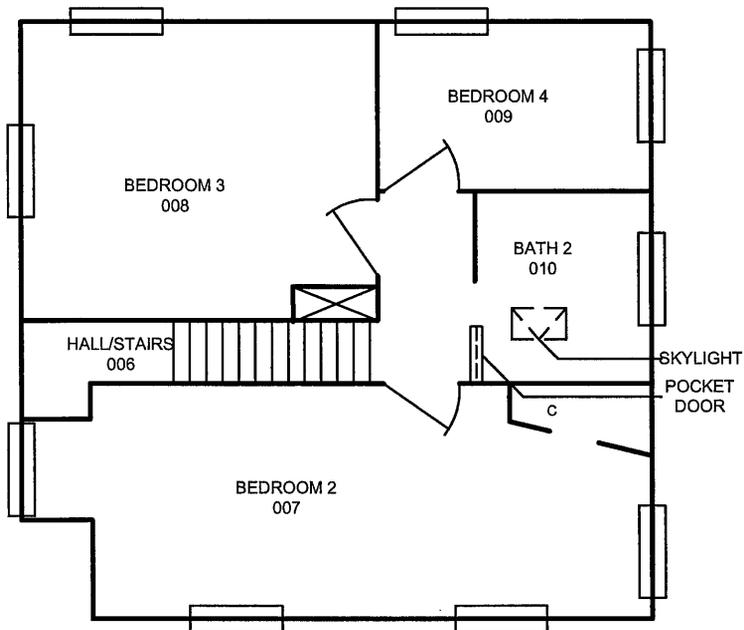
DATE: 04/08/2016
 PROJECT NO.: 15-015.10T10
 DRAWN BY: VB
 REVIEWED BY: AH

ENVIRONMENTAL REVIEW
 32 MASSACHUSETTS ROAD
 SOUTH LYME, CONNECTICUT

SIDE-C

SIDE-B

SIDE-D



SECOND FLOOR PLAN

SIDE-A (STREET SIDE)

NOT TO SCALE



EAGLE
Environmental, Inc.

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

DATE: 04/08/2016
PROJECT NO.: 15-015.10T10
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
32 MASSACHUSETTS ROAD
SOUTH LYME, CONNECTICUT

SHEET NO.

FP-2

SHEET 3 OF 3 .

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

**EMSL Analytical, Inc.**

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

EMSL Order: 031537967
 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: 11/20/15 10:26 AM
 Analysis Date: 11/24/2015
 Collected: 11/13/2015

Project: 15-015.10T10/ CSA-HURRICANE SANDY- 32 MASSACHUSETTS RD, SOUTH LYME/ 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
11-13-AH-01 031537967-0001	FAÇADE B - GREY CAULK AT FAÇADE PENETRATION	Gray Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
11-13-AH-02 031537967-0002	FAÇADE D - GREY CAULK AT FAÇADE PENETRATION	Gray Fibrous Homogeneous	14% Cellulose	45% Ca Carbonate 41% Non-fibrous (other)	None Detected
11-13-AH-03 031537967-0003	FAÇADE D - WHITE CAULK AT CHIMNEY AND FAC. JUNCTION	White Non-Fibrous Homogeneous		45% Ca Carbonate 51% Non-fibrous (other)	4% Chrysotile
11-13-AH-04 031537967-0004	FAÇADE D - WHITE CAULK AT CHIMNEY AND FAC. JUNCTION				Stop Positive (Not Analyzed)

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 11/24/2015 04:51:16



EMSL Analytical, Inc.

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

EMSL Order: 031537967
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: 11/20/15 10:26 AM
Analysis Date: 11/24/2015
Collected: 11/13/2015

Project: 15-015.10T10/ CSA-HURRICANE SANDY- 32 MASSACHUSETTS RD, SOUTH LYME/ 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:: 11/20/2015 Sample Receipt Time: 10:26 AM
Analysis Completed Date: 11/24/2015 Analysis Completed Time: 3:09 AM

Analyst(s):

Deen Liang PLM (1)

Yolanda Chow PLM (2)

Samples reviewed and approved by:

James Hall, Laboratory Manager
or other approved signatory

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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 11/24/2015 04:51:16

APPENDIX 3

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01509 - 11/13/15 11:11

INSPECTION FOR: Mr. Richard Frascarelli
32 Massachusetts Road
South Lyme, CT 06376

PERFORMED AT: 32 Massachusetts Road
South Lyme, CT

INSPECTION DATE: 11/13/15

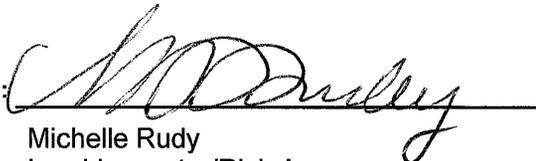
INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01509

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002197

Comprehensive lead inspection for the interior and exterior of the main building at 32 Massachusetts Road.

SIGNED:



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

Date:

11/13/15

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Richard Frascarelli

Inspection Date: 11/13/15 32 Massachusetts Road
Report Date: 11/13/2015 South Lyme, CT
Abatement Level: 1.0
Report No. S#01509 - 11/13/15 11:11
Total Readings: 201 Actionable: 0
Job Started: 11/13/15 11:11
Job Finished: 11/13/15 15:23

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

Calibration Readings

Exterior Room 999

Calibration Readings

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

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Richard Frascarelli

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
017	A	Door	Rgt	Casing	I	Wood	White	0.0	QM
018	A	Door	Rgt	Jamb	I	Wood	White	0.0	QM
011	B	Wall	Ctr		I	Dry wall	Beige	-0.1	QM
019	B	Door	Rgt		I	Wood	Beige	0.1	QM
024	B	Closet	Rgt	Door Casing	I	Wood	White	0.2	QM
021	B	Closet	Rgt	Wall	I	Dry wall	White	0.0	QM
023	B	Closet	Rgt	Shelf Sup.	D	Wood	White	-0.1	QM
022	B	Closet	Rgt	Shelf	D	Wood	White	-0.1	QM
013	C	Cabinet	Rgt		I	Wood	Varnish	-0.1	QM
012	C	Wall	Ctr		I	Dry wall	Beige	0.0	QM
020	C	Door	Lft		D	Wood	Beige	-0.1	QM
Interior Room 002 Bathroom 1									
027	A	Wall	Ctr		I	Dry wall	Tan	0.0	QM
025	A	Ceiling	Ctr	Beam	I	Wood	White	-0.3	QM
026	A	Ceiling	Ctr		I	Dry wall	White	-0.3	QM
031	A	Door	Ctr		I	Wood	Tan	-0.2	QM
032	A	Door	Ctr	Casing	I	Wood	stain	0.0	QM
033	A	Door	Ctr	Jamb	I	Wood	stain	-0.2	QM
028	B	Wall	Ctr		I	Dry wall	Tan	-0.1	QM
034	C	Chair Rail	Ctr		I	Wood	stain	-0.1	QM
035	C	Cabinet	Ctr		I	Wood	stain	0.1	QM
029	C	Wall	Ctr		D	Dry wall	Tan	0.1	QM
030	D	Wall	Ctr		D	Dry wall	Tan	0.2	QM
Interior Room 003 LR/DR									
050	A	Crown Mldg	Ctr		I	Wood	Varnish	0.1	QM
052	A	Grate	Ctr		D	Metal	Beige	0.1	QM
040	A	Wall	Lft		I	Dry wall	Yellow	0.0	QM
037	A	Wall	Rgt		I	Dry wall	Maroon	-0.1	QM
053	A	Wall	Rgt	Wainscoting	I	Wood	Maroon	-0.1	QM
051	A	Floor	Ctr		D	Wood	Varnish	-0.2	QM
036	A	Ceiling	Ctr		D	Dry wall	White	-0.2	QM
049	A	Ceiling	Ctr	Beam	I	Wood	Varnish	-0.1	QM
069	A	Door	Lft		I	Wood	Yellow	-0.2	QM
042	B	Electrical	Lft	Box	I	Metal	Yellow	0.3	QM
054	B	Chair Rail	Rgt		I	Wood	Varnish	-0.1	QM
041	B	Wall	Lft		I	Dry wall	Yellow	0.2	QM
038	B	Wall	Ctr		I	Dry wall	Maroon	-0.3	QM
055	B	Baseboard	Rgt		I	Wood	Varnish	-0.2	QM
043	B	Door	Lft		I	Wood	Yellow	0.0	QM
044	B	Door	Lft	Casing	I	Wood	stain	0.2	QM
045	B	Door	Lft	Jamb	I	Wood	Yellow	-0.1	QM
046	B	Door	Lft	threshold	D	Wood	Yellow	0.5	QM
056	B	Door	Rgt		I	Wood	Varnish	-0.2	QM
057	B	Door	Rgt	Casing	I	Wood	Varnish	0.2	QM
058	B	Door	Rgt	Jamb	I	Wood	Varnish	-0.1	QM
059	B	Door	Rgt	Stop	I	Wood	Varnish	0.1	QM
048	B	Closet	Lft	Door Stop	D	Wood	White	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Richard Frascarelli

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
047	B	Closet	Lft	Door Jamb	D	Wood	White	-0.4	QM
062	C	Shelving	Rgt	Wall	I	Wood	Varnish	0.0	QM
063	C	Shelf	Rgt		I	Wood	Varnish	0.0	QM
064	C	Shelf Suppor	Rgt		I	Wood	Varnish	0.0	QM
065	C	Fireplace	Rgt	Mantle	I	Wood	stain	0.2	QM
039	C	Wall	Lft		I	Dry wall	Maroon	-0.2	QM
060	C	Window	Lft	Casing	I	Wood	Varnish	0.0	QM
061	C	Window	Lft	Stop	I	Wood	Varnish	0.3	QM
066	D	Beam	Ctr		I	Wood	Cream	0.0	QM
068	D	Threshold	Ctr		D	Wood	Varnish	-0.1	QM
067	D	Column	Ctr		D	Wood	Olive	-0.2	QM
Interior Room 004 Bedroom 1									
071	A	Crown Mldg	Ctr		I	Wood	White	0.0	QM
072	A	Wall	Ctr		I	Dry wall	Navy	0.0	QM
070	A	Ceiling	Ctr		I	Dry wall	White	-0.1	QM
073	B	Wall	Ctr		I	Dry wall	Navy	-0.2	QM
074	C	Wall	Ctr		I	Dry wall	Navy	0.0	QM
080	C	Window	Ctr	Casing	I	Wood	White	0.1	QM
081	C	Window	Ctr	Stop	I	Wood	White	0.0	QM
075	D	Wall	Ctr		I	Dry wall	Navy	-0.1	QM
079	D	Baseboard	Ctr		I	Wood	White	0.2	QM
076	D	Door	Ctr		I	Wood	No Paint	0.2	QM
077	D	Door	Ctr	Casing	I	Wood	White	-0.1	QM
078	D	Door	Ctr	Jamb	I	Wood	No Paint	0.0	QM
Interior Room 005 Sunroom									
098	A	Skylight	Ctr	Casing	I	Wood	Olive	-0.1	QM
099	A	Skylight	Ctr	Jamb	I	Wood	Olive	0.1	QM
100	A	Skylight	Ctr	Frame	I	Metal	Cream	0.1	QM
084	A	Crown Mldg	Rgt		I	Wood	Cream	-0.2	QM
088	A	Wall	L Rgt		I	Wainscotin	Varnish	-0.1	QM
087	A	Wall	U Rgt		I	Wood	Olive	0.0	QM
089	A	Baseboard	Rgt		I	Wood	Varnish	0.3	QM
082	A	Ceiling	Rgt		I	Dry wall	Cream	0.0	QM
085	A	Window	Rgt	Casing	I	Wood	Cream	0.0	QM
086	A	Window	Rgt	Sill	I	Wood	Cream	-0.1	QM
083	A	Column	Rgt		I	Wood	Cream	0.3	QM
102	C	Wall	L Lft		I	Wainscotin	Varnish	-0.1	QM
101	C	Wall	U Lft		I	Wood	Olive	-0.1	QM
103	C	Column	Lft		I	Wood	Varnish	0.1	QM
093	D	Sidelight	Ctr	Casing	I	Metal	Olive	0.0	QM
094	D	Sidelight	Ctr	Frame	I	Vinyl	Cream	0.2	QM
096	D	Wall	L Ctr		I	Wainscotin	Varnish	0.0	QM
095	D	Wall	U Ctr		I	Wood	Olive	0.0	QM
090	D	Door	Ctr		I	Metal	Olive	0.1	QM
091	D	Door	Ctr	Casing	I	Wood	Cream	-0.1	QM
092	D	Door	Ctr	Jamb	I	Wood	White	0.0	QM
097	D	Door	Ctr	threshold	D	Wood	Varnish	-0.3	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Richard Frascarelli

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 006 Stair/Hall									
110	A	Chair Rail	Ctr		I	Wood	Maroon	0.2	QM
111	A	Wall	Ctr		D	Dry wall	White	0.2	QM
121	A	Baseboard	Lft		D	Wood	White	-0.1	QM
122	A	Floor	Lft		D	Wood	Varnish	0.0	QM
112	B	Wall	Ctr		D	Dry wall	White	-0.3	QM
113	C	Wall	Ctr		D	Dry wall	White	-0.1	QM
104	C	Stairs	Lft	Stringers	I	Wood	Varnish	-0.2	QM
105	C	Stairs	Lft	Treads	I	Wood	Varnish	0.0	QM
106	C	Stairs	Lft	Risers	I	Wood	Varnish	0.1	QM
107	C	Railing	Lft	Top	I	Wood	Varnish	0.0	QM
109	C	Railing	Lft	Newel Post	I	Wood	Varnish	0.2	QM
108	C	Railing	Lft	Balusters	I	Wood	Varnish	0.0	QM
114	D	Wall	Ctr		D	Wood	White	-0.1	QM
115	D	Ceiling	Ctr		D	Dry wall	White	-0.2	QM
116	D	Ceiling	Ctr	Door	D	Wood	White	0.1	QM
118	D	Door	Lft	Casing	D	Wood	White	0.0	QM
119	D	Door	Lft	Jamb	D	Wood	White	0.0	QM
120	D	Door	Lft	Stop	D	Wood	White	0.1	QM
117	D	Door	Rgt		D	Wood	White	-0.1	QM
Interior Room 007 Bedroom 2									
149	A	Beam	Ctr		I	Wood	Varnish	0.0	QM
124	A	Wall	Lft		D	Dry wall	Olive	0.0	QM
123	A	Ceiling	Lft		I	Dry wall	White	0.0	QM
125	B	Wall	Lft		I	Dry wall	Olive	0.1	QM
126	C	Wall	Lft		I	Dry wall	Olive	-0.1	QM
134	C	Door	Ctr		D	Wood	White	0.2	QM
135	C	Door	Ctr	Casing	D	Wood	White	0.3	QM
136	C	Door	Ctr	Jamb	D	Wood	White	-0.1	QM
138	C	Closet	Lft	Wall	I	Dry wall	Olive	-0.2	QM
137	C	Closet	Lft	Ceiling	I	Dry wall	White	0.1	QM
127	D	Wall	Lft		D	Dry wall	Olive	0.1	QM
132	D	Baseboard	Ctr		I	Wood	White	0.2	QM
133	D	Floor	Ctr		D	Wood	White	-0.1	QM
128	D	Window	Ctr	Casing	I	Wood	White	0.0	QM
129	D	Window	Ctr	Stop	I	Wood	White	0.0	QM
131	D	Window	Ctr	Apron	I	Wood	White	0.2	QM
130	D	Window	Ctr	Sill	D	Wood	White	0.1	QM
Interior Room 008 Bedroom 3									
140	A	Wall	Ctr		I	Dry wall	Maroon	0.0	QM
139	A	Ceiling	Ctr		I	Dry wall	Maroon	-0.4	QM
141	B	Wall	Ctr		I	Dry wall	Maroon	-0.2	QM
148	B	Baseboard	Left		I	Wood	White	0.2	QM
142	C	Wall	Ctr		I	Dry wall	Maroon	0.0	QM
146	C	Window	Left	Casing	I	Wood	White	0.0	QM
147	C	Window	Left	Stop	I	Wood	White	-0.4	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Richard Frascarelli

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
143	D	Wall	Ctr		I	Dry wall	Maroon	-0.2	QM
144	D	Door	Rgt		D	Wood	White	0.0	QM
145	D	Door	Rgt	Jamb	D	Wood	White	0.2	QM

Interior Room 009 Bedroom 4

162	A	Hatch	Ctr	Door	I	Wood	Purple	-0.1	QM
163	A	Hatch	Ctr	Casing	I	Wood	Purple	0.2	QM
153	A	Wall	Ctr		I	Dry wall	Purple	0.0	QM
154	B	Wall	Ctr		I	Dry wall	Purple	0.0	QM
151	C	Wall	Ctr		I	Dry wall	Purple	-0.1	QM
157	C	Baseboard	Ctr		I	Wood	White	0.0	QM
158	C	Floor	Ctr		D	Wood	Varnish	-0.1	QM
150	C	Ceiling	Ctr		I	Dry wall	Purple	0.0	QM
155	C	Window	Ctr	Casing	I	Wood	White	0.2	QM
156	C	Window	Ctr	Stop	I	Wood	White	0.2	QM
152	D	Wall	Ctr		I	Dry wall	Purple	-0.1	QM
159	D	Door	Lft		I	Wood	Purple	-0.3	QM
160	D	Door	Lft	Casing	D	Wood	Purple	0.1	QM
161	D	Door	Lft	Jamb	D	Wood	Purple	-0.1	QM

Interior Room 010 Bathroom 2

175	A	Shelf	Lft		D	Wood	White	-0.1	QM
176	A	Skylight	Ctr	Sash	I	Metal	White	0.0	QM
177	A	Skylight	Ctr	Jamb	I	Wood	White	0.0	QM
178	A	Skylight	Ctr	Casing	I	Wood	White	0.1	QM
165	A	Wall	Ctr		I	Dry wall	Gray	0.4	QM
164	A	Ceiling	Ctr		I	Dry wall	Gray	-0.1	QM
166	B	Wall	Ctr		I	Dry wall	Gray	0.0	QM
172	B	Door	Lft		D	Wood	White	0.0	QM
173	B	Door	Lft	Casing	D	Wood	Gray	0.0	QM
174	B	Door	Lft	Jamb	D	Wood	White	-0.4	QM
167	C	Wall	Ctr		I	Dry wall	Gray	0.0	QM
168	D	Wall	Ctr		I	Dry wall	Gray	0.3	QM
171	D	Baseboard	Ctr		I	Wood	White	-0.1	QM
169	D	Window	Ctr	Casing	I	Wood	White	0.2	QM
170	D	Window	Ctr	Stop	I	Wood	White	-0.1	QM

Calibration Readings

001								1.0	TC
002								1.1	TC
003								1.0	TC
199								1.2	TC
200								1.1	TC
201								1.1	TC

---- End of Readings ----

APPENDIX 4

DUST AND SOIL SAMPLE LABORATORY REPORTS

031537391



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. 108 Fax: 860-585-7034 Email: bieblanc@eagleenviro.com; dwwnne@eagleenviro.com; rsioch@eagleenviro.com

Project Name: Environmental Review Project #: 15-015-10110
Project Location: 32 Massachusetts Road, South Lyme - DUST WIPES 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
OSHA w/TWA
TEM AIR
PLM - Bulk
SOILS
TEM BULK
TEM MICROVAC
TEM WIPE
TEM WATER

LEAD ANALYSIS
Flame Atomic Absorption
Graphite Furnace Atomic Absorption
ICP - Inductively Coupled Plasma

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 Vitrous Fibers - MMVF's
Synthetic Fiber Identification

MICROBIAL ANALYSIS
Air Samples
Water Samples
Wipe and Bulk Samples

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

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

Client Sample # (S) 11/13 WR 01 11/13 WR 10 TOTAL SAMPLE # 10
Relinquished: [Signature] Date: 11/13/15 Time: 5 PM
Received: [Signature] Date: 11/16/15 Time: 4:11 PM
Relinquished: [Signature] Date: 11/16/15 Time: 10:26 AM
Received: [Signature]

7749 5909 3862 Page 1

**EMSL Analytical, Inc.**

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

EMSL Order: 031537391
 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: 11/17/15 10:26 AM
 Collected: 11/13/2015

Project: 15-015-10T10/ ENVIRONMENTAL REVIEW/ 32 MASSACHUSETTS ROAD / SOUTH LYNE - DUST WIPES

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
11/13 MR 01 Site: BLANK	031537391-0001	11/13/2015	11/17/2015	n/a	<10 µg/wipe
11/13 MR 02 Site: BLANK	031537391-0002	11/13/2015	11/17/2015	n/a	<10 µg/wipe
11/13 MR 03 Site: FLOOR AT ENTRY Desc: KITCEN	031537391-0003	11/13/2015	11/17/2015	144 in ²	<10 µg/ft ²
11/13 MR 04 Site: SILL Desc: KITCEN	031537391-0004	11/13/2015	11/17/2015	159 in ²	<9.1 µg/ft ²
11/13 MR 05 Site: FLOOR AT ENTRY Desc: LR/ DR	031537391-0005	11/13/2015	11/17/2015	144 in ²	<10 µg/ft ²
11/13 MR 06 Site: SILL Desc: LR/ DR	031537391-0006	11/13/2015	11/17/2015	38.4375 in ²	<37 µg/ft ²
11/13 MR 07 Site: FLOOR AT ENTRY Desc: SUNROOM	031537391-0007	11/13/2015	11/17/2015	144 in ²	<10 µg/ft ²
11/13 MR 08 Site: SILL Desc: SUNROOM	031537391-0008	11/13/2015	11/17/2015	232 in ²	67 µg/ft ²
11/13 MR 09 Site: FLOOR Desc: BED 4	031537391-0009	11/13/2015	11/17/2015	144 in ²	<10 µg/ft ²
11/13 MR 10 Site: SILL Desc: BED 4	031537391-0010	11/13/2015	11/17/2015	127.188 in ²	<11 µg/ft ²

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 11/17/2015 18:59:28



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 38 th 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
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Your Name: Brandy LeBlanc **Project Manager:** 031537393

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

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

Project Name: Environmental Review **Project #:** 15-015-10710

Project Location: 32 Massachusetts Road, South Lyme - SOILS **Project State (US):** CT

TURNAROUND TIME

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

SAMPLE MATRIX

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

ASBESTOS ANALYSIS

PCM - Air

NIOSH 7400 (A) Issue 2: August 1994

OSHA w/TWA

TEM AIR

AHERA 40 CFR, Part 763 Subpart E

NIOSH 7402 Issue 2

EPA Level II

PLM - Bulk

EPA 600/R-93/116

NY Stratified Point Count

California Air Resource Board (CARB) 435

NIOSH 9002

PLM NOB (Gravimetric) NYS 198.1

EPA Point Count (400 Points)

EPA Point Count (1,000 Points)

Standard Addition Point Count

SOILS

EPA Protocol Qualitative

EPA Protocol Quantitative

EMSL MSD 9000 Method fibers/gram

Superfund EPA 540-R097-028 (dust generation)

TEM BULK

Drop Mount (Qualitative)

Chatfield SOP-1988-02

TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

ASTM D 5755-95 (Quantitative)

TEM WIPE

ASTM D-6480-99

Qualitative

TEM WATER

EPA 100.1

EPA 100.2

NYS 198.2

Other: _____

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM

Soil, SW846-7420

Air, NIOSH 7082

Chips, SW846-7420 or AOC 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 7500

HVAC Efficiency

Carbon Black

Airborne Oil Mist

Other: _____

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

Client Sample # (S) 11/13 NR SOIL 01 11/13 NR SOIL 03 TOTAL SAMPLE # 3

Relinquished: [Signature] Date: 11/13/15 Time: 5 PM

Received: [Signature] Date: 11/16/15 Time: AM/PM

Relinquished: [Signature] Date: 11/17/15 Time: 10:27 AM

Received: [Signature] Date: _____ Time: _____

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

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

EMSL Order: 031537393

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: 11/17/15 10:27 AM
 Collected: 11/13/2015

Project: 15-015-10T10/ ENVIRONMENTAL REVIEW / 32 MASSACHUSETTS ROAD / SOUTH LYNE- SOILS

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>
11/13 MR SOIL 01 Site: PARKING AREA Desc: A-SIDE	031537393-0001	11/13/2015	11/17/2015	46 mg/Kg
11/13 MR SOIL 02 Site: PATCHY AREA AROUND DECK Desc: A-SIDE	031537393-0002	11/13/2015	11/17/2015	<40 mg/Kg
11/13 MR SOIL 03 Site: ENTRY TO DRIVEWAY NEAR STOP SIGN Desc: D- SIDE	031537393-0003	11/13/2015	11/17/2015	<40 mg/Kg

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 11/18/2015 08:47:44

APPENDIX 5
MOLD INSPECTION FORMS



MOLD OBSERVATION FORM

Eagle Project No: 15-015, 1010 Date: 11/13/15 Inspector: MR

Facility Address: 32 Massachusetts Rd., South Lyme, CT

Location	Observation	Sample Number
Living Room 003	Several moisture spots/holes in sheetrock ceiling near ceiling fan. Under Bathroom. Patched earlier & patches failing. No visible mold.	—
Sunroom 005	Bubbling sheetrock near skylights. Signs of water damage on couch but no holes in SF. Perhaps patched & painted over. No visible mold.	—
Crawl Space	Spray foam moisture barrier on floor deck/joists. Musty odor but no visible mold.	—



MOLD MOISTURE READING FORM

Eagle Project No: 15-015.10T10 Date: 11/13/15 Inspector: NR

Facility Address: 32 Massachusetts Rd., South Lyme, CT

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
LR 003	Ceiling	Drywall	102	X		
Sunroom 005	Ceiling	Drywall	102	X		
Crawl Space	Wall	Block	215			X
	Column	Brick	>1000			X
	Ceil. Beam	Wood	181		X	
	Column	Tree Trunk	>1000			X

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
1145	LR	46.6%	22.0°C	10.0°C
1150	Sunroom	43.6%	24.1°C	11.1°C
1155	Crawl Space	49.4%	19.4°C	8.3°C

APPENDIX 6

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES

APPLICATION NO. 2440

32 MASSACHUSETTS ROAD
SOUTH LYME, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CONTRACTOR MOBILIZATION	1	\$ 750.00	\$ 750.00
CAULK	40	\$ 25.00 LF	\$ 1,000.00
SUBTOTAL			\$ 1,750.00
ASBESTOS ABATEMENT CONTINGENCY			\$ 175.00
ASBESTOS TOTAL			\$ 1,925.00

LEAD-BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	\$ 3,500.00 EACH	\$ 3,500.00
SUBTOTAL			\$ 3,500.00
LEAD RENOVATION CONTINGENCY			\$ 700.00
LEAD RENOVATION TOTAL			\$ 4,200.00

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL \$ 6,125.00

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
HAZARDOUS MATERIALS CONSULTING CONTINGENCY	1	\$2,500.00 EACH	\$ 2,500.00
SUBTOTAL			\$ 2,500.00
CONSULTING CONTINGENCY			\$ 250.00
CONSULTING TOTAL			\$ 2,750.00

GRAND TOTAL \$ 8,875.00

APPENDIX 7
EAGLE ENVIRONMENTAL, INC. LICENSES
AND LABORATORY CERTIFICATES

CERTIFICATE OF ACHIEVEMENT

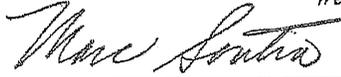
This certifies that

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



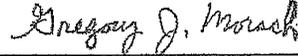
Principal Instructor: Marc Souza

December 18, 2014

Date of Course

December 18, 2015

Expiration Date



Regional Training Manager: Gregory Morsch

SIAR-5021

Certificate Number

December 18, 2014

Examination Date

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

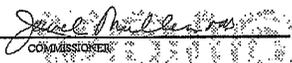
AARON HATCHER

CERTIFICATE NO.
000645

CURRENT THROUGH
05/31/16

VALIDATION NO.
03-286138


SIGNATURE


COMMISSIONER

CERT# L-600 - 808

CHEMSCOPE TRAINING DIVISION
LEAD INSPECTOR/RISK ASSESSOR REFRESHER
8HOUR TRAINING CERTIFICATE
Michelle Rudy
8 South Main Street Suite 3, Terryville CT

Has attended an 8 hour course on the subject discipline in English on
3/12/2015 and has passed a written and hands on skills examination.

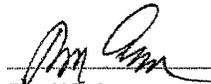
The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

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

Examination Date: 3/12/2015

Expiration Date: 3/12/2016

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
Training Manager

Chem Scope, Inc.
15 Mouthrop Street
North Haven CT 06473
(203) 865-5605

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
LEAD INSPECTOR RISK ASSESSOR

MICHELLE I. RUDY

CERTIFICATE NO.
002197

CURRENT THROUGH
01/31/16

VALIDATION NO.
03-133677


SIGNATURE


COMMISSIONER

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

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

EMSL ANALYTICAL, INC. - MANHATTAN, NY

LOCATED AT 307 West 38th Street IN New York, NY 10018
AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.

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

ASBESTOS

Environmental Health & Housing

Examination For:

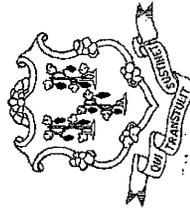
Examination For:

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

Lead in Paint
Lead Paint in Soil
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

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



Registration No.

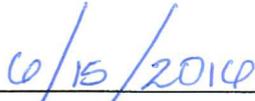
PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

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: 32 Massachusetts Road Old Lyme, CT	
Application Number: 201405290-FM	
"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief.	
I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."	
	
Signature of Applicant	Date
HERMIA DELAIRE	CDBG - DR
Name of Applicant (print or type)	Title
	June 15, 2016
Signature of Professional Engineer	Date
James A. Bernardino	27475
Name of Professional Engineer (print or type)	P.E. Number
	Affix P.E. Stamp Here
	