



December 6, 2017  
Project 1403900-40-1000

Consulting  
Engineers and  
Scientists

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

**Re: National Environmental Policy Act (NEPA) Statutory Checklist for 6 Beach Road  
West, Old Saybrook, 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 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. Complete consultation and lead-based paint and mold 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, 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 blue ink that reads "John Gondek".

John Gondek  
Ecotoxicologist

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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 #2157 6 Beach Road West, Old Saybrook, CT

#### Scope of Work:

Raise existing home to proper flood elevation. Construction of new concrete pier and footing foundation with perimeter interior and exterior concrete piers, new stone base, insulated subfloor assembly, and new pressure treated wood access stairs to the home. Construction of new deck and removal of existing deck. Reconnection of all associated infrastructure (power, water, sanitary lines) to new elevation, as well as mitigation and remediation of lead paint and mold.

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.
<b>Document Laws and authorities listed at 24 CFR Sec. 58.5</b>							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	This project was reviewed in accordance with the Programmatic Agreement developed by the CT State Historic Preservation Office (SHPO), CT Department of Housing, and the Advisory Council on Historic Preservation. SHPO has concluded that the residence does not appear to be eligible for listing on the National Register of Historic Places. No historic properties will be affected by the proposed rehabilitation (Attachment A - SHPO letter, dated 11/28/17).
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 AE, "1% annual flood chance" Middlesex County, CT- Map #09007C0343J (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). CTDEEP Tidal Wetlands Mapping, as defined in C.G.S. Section 22a-29 and Section 22a-93(7)(e), does not identify tidal wetlands on the property (Figure 5; CTDEEP 1999).

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is located within the Coastal Boundary, but above the Coastal Jurisdiction Line contour/elevation of 2.9 ft. for the Town of Old Saybrook (CTDEEP 2016; Figure 5). Review by local Planning & Zoning is required (activities must be consistent with Coastal Management Act C.G.S Section 22a-100(b)).
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"/>	No impacts to water quality are anticipated. CTDEEP Bureau of Water Protection and Land Reuse map titled "Connecticut Aquifer Projection Areas" dated February 2017 does not identify aquifer protection areas in the Town of Old Saybrook, CT (Figure 6). The project site is not located in an EPA Sole Source Aquifer ( <a href="http://www.epa.gov/region1/eco/drinkwater/pc_solesource_aquifer.html">http://www.epa.gov/region1/eco/drinkwater/pc_solesource_aquifer.html</a> ).
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"/>	CTDEEP State and Federal Listed Species and Significant Natural Communities Map for Middlesex County indicates the presence of listed species or significant natural communities within the vicinity of the site (CTDEEP NDDDB 2016; Figure 7). However, Program-specific parameters provide that if no sandy beaches are present on the project site, no further NDDDB review is required. The project site is not located on a sandy beach (Figure 1).  USFWS Information, Planning and Conservation System (IPaC) indicates three threatened or endangered species, of Northern Long-eared Bat, Roseate Tern, and Red Knot, as being potentially present on the project site (Attachment B). Further review of USFWS Endangered Species Consultation Project Review for Projects with Federal Involvement indicates Red Knot are not expected to occur within Middlesex County. While Roseate Terns are listed for Middlesex County, they are not expected in the Town of Old Saybrook. Additionally, there is no available habitat for Northern Long-eared Bats on site (Attachment C). Therefore, no endangered or threatened species are expected to occur on the project site (Attachment D).
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 ( <a href="http://rivers.gov">rivers.gov</a> ; 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 Windsor-Urban land complex soils (Figure 9). 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	Provide compliance documentation. Additional material may be attached.
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. <i>Figure 10</i>
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 ERIS (Attachment E). <i>+ Attachment G</i>
11. Environmental Justice [58.5(j)] Executive Order 12898	<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 in a Distressed Municipality based on the CTDECD 2016 List (Attachment F). 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.
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 AE, "1% annual flood chance Middlesex County, CT- Map #09007C0343J (Figure 3).  Per federal regulations and program guidelines, for site-specific projects located in the 100-year flood plain, the assisted homeowners are required to maintain flood insurance in the amount of the loan, in perpetuity. Flood insurance requirements must also extend to subsequent owners.  All award recipients located in the 100-year flood plain are required to acknowledge the requirement, in accordance with federal law, that flood insurance must be maintained for the life of the property and upon transfer of the property to subsequent owners. The acknowledgement is filed on the municipal land records to ensure future owners of the property are notified."
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. Middlesex County, CT- Map #09007C0343J (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. <i>Attachment G</i>
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.
3 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 checked="" type="checkbox"/>	The results of Lead Paint Survey are presented in the Environmental Assessment Report, dated 10/23/2017, prepared by Eagle Environmental Inc. (submitted by

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.
							Capital Studio Architects along with the Statutory Checklist). Of the two hundred sixty-four (264) readings taken, one (1) was found to contain toxic levels of lead-based paint. The Lead-based Paint Abatement plan details the work practices to be followed during construction to address lead-containing materials at the project site. <a href="#">Attachment H for 13C - 13F</a>
13 D. Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The results of Asbestos-containing Material Survey are presented in the Environmental Assessment Report, dated 10/23/2017, prepared by Eagle Environmental Inc. (submitted by Capital Studio Architects along with the Statutory Checklist). All samples collected were confirmed to be non-asbestos-containing materials.
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; Environmental Assessment Report, dated 10/23/2017, 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 checked="" type="checkbox"/>	The procedures and results of the microbial testing are presented in the Environmental Assessment Report, dated 10/23/2017, prepared by Eagle Environmental Inc. (report submitted by Capital Studio Architects along with the Statutory Checklist). The Mold and Water Remediation plan details the work practices to be followed during construction to address materials found to be holding moisture.
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. Refer to Appendix B of the General Permit <a href="#">Attachment I</a>
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 the project site does not propose any activity water ward of the coastal jurisdiction line as defined in C.G.S. Section 22a-359(c) (Figure 5).
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"/>	The project site is located above the Coastal Jurisdiction Zone based upon the coastal jurisdiction contour/elevation for the Town of Old Saybrook (2017). 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 the project site based review of NWI data (Figure 4) and NRCS soils data (Figure 9). Project rehabilitation work is not expected to impact wetlands/watercourses.
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/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; OR
- ☐ The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:

*Barry Giroux*

12/6/17

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

Date

Responsible Entity or designee Signature:

*Hermia Delaire*

Hermia Delaire, CDBG-DR Program Manager

*10/23/2018*

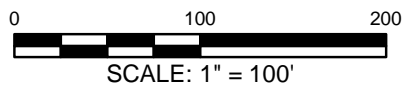
Date





**SOURCE:**

1. 2016 ESRI WORLD IMAGERY



National Environmental Policy Act (NEPA) Statutory  
Checklist and Environmental Assessment  
6 Beach Rd West  
Old Saybrook, Connecticut

Eagle Environmental, Inc.  
Terryville, Connecticut



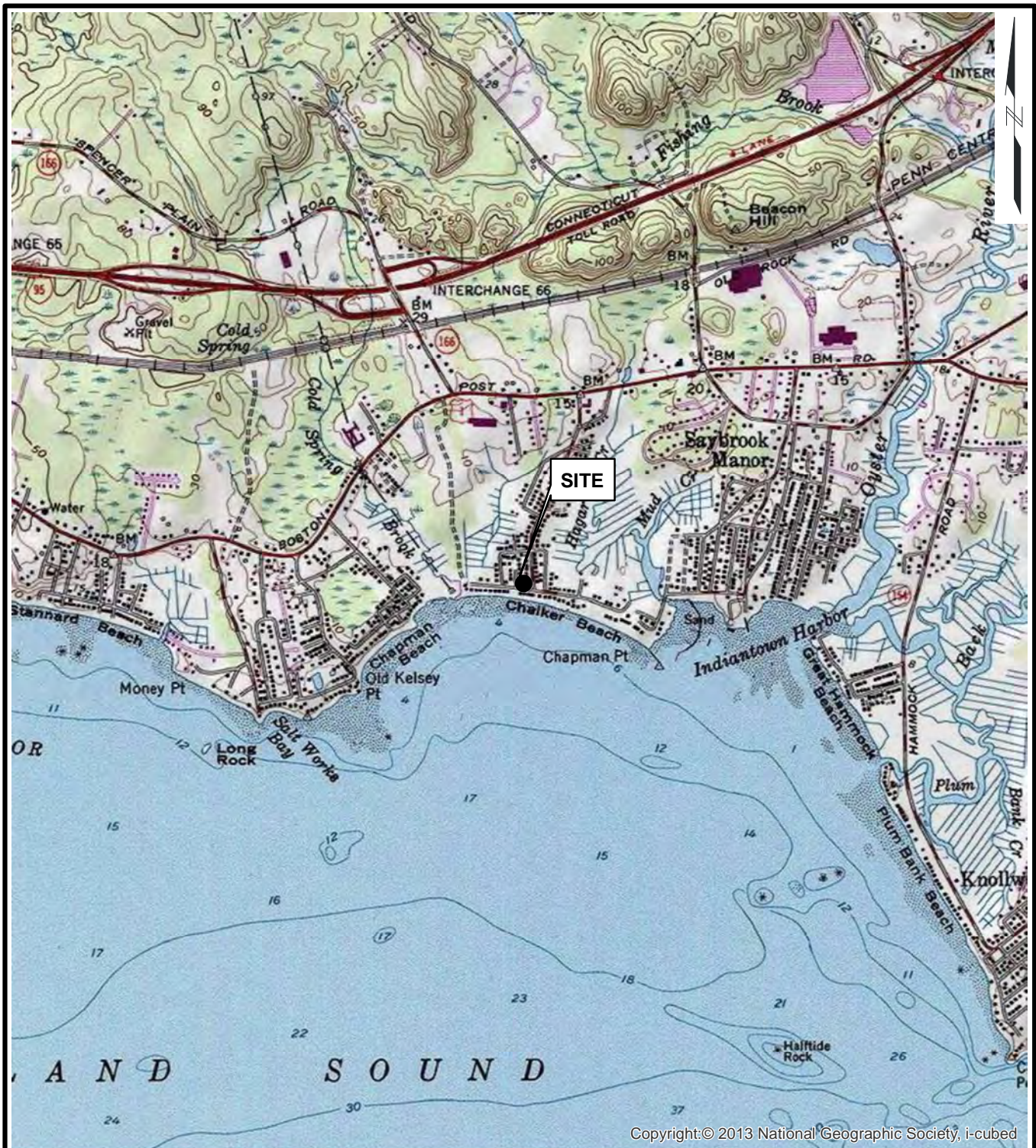
Project 1403900

SITE DETAIL

August 2017

Fig. 1

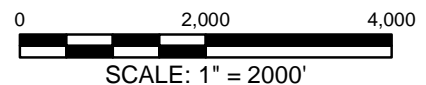




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**SOURCE:**

1. USGS TOPOGRAPHIC MAP ESSEX  
QUADRANGLE ACCESSED VIA  
ARCGISONLINE.COM.



National Environmental Policy Act (NEPA) Statutory  
Checklist and Environmental Assessment  
6 Beach Rd West  
Old Saybrook, Connecticut

Eagle Environmental, Inc.  
Terryville, Connecticut



Project 1403900

USGS TOPOGRAPHIC MAP

August 2017

Fig. 2



## NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Connecticut State Plane Zone (FIPS zone 0600). The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NOAA, NNGS12  
National Geodetic Survey  
SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

**Base map** information shown on FIRM panels produced for this 2011 revision was derived from United State Geological Survey 2008 High Resolution Orthophotography produced from 1 foot pixel cells from photography dated April 2008. The projection used in the preparation of this map was Connecticut State Plane Feet, FIPS Zone 0600. The horizontal datum used was North American Datum of 1983 (NAD 83).

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LIMWA)**. The LIMWA represents the approximate landward limit of the 1.5 foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the shoreline and the LIMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.

## COASTAL BARRIER RESOURCES SYSTEM (CBRS) LEGEND

**11-16-1990 CBRS Area**  
FLOOD INSURANCE NOT AVAILABLE FOR STRUCTURES NEWLY BUILT OR SUBSTANTIALLY IMPROVED ON OR AFTER NOVEMBER 16, 1990 IN DESIGNATED CBRS AREAS.

Boundaries of the John H. Chafee Coastal Barrier Resources System (CBRS) shown on this FIRM were transferred from the official CBRS source map(s) for this area and are depicted on this FIRM for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and maintained by the U.S. Fish and Wildlife Service (FWS). The official CBRS maps used to determine whether or not an area is located within the CBRS are available for download at <http://www.fws.gov>. For an official determination of whether or not an area is located within the CBRS, or for any questions regarding the CBRS, please contact the FWS field office for this area at 603-223-2541.



## LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**  
The 1% annual chance flood (100-year flood), also known as the "base flood," is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A**  
No Base Flood Elevations determined.
- ZONE AE**  
Base Flood Elevations determined.
- ZONE AH**  
Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO**  
Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR**  
Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently identified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99**  
Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V**  
Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE**  
Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

### OTHER FLOOD AREAS

**ZONE X**  
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

### OTHER AREAS

**ZONE X**  
Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D**  
Areas in which flood hazards are undetermined, but possible.

### COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

### OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary**  
**0.2% Annual Chance Floodplain Boundary**  
**Floodway boundary**  
**Zone D boundary**  
**CBRS and OPA boundary**
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.**
- Limit of Moderate Wave Action**
- Limit of Moderate Wave Action coincident with Zone Break**
- Base Flood Elevation line and value; elevation in feet\***
- Base Flood Elevation value where uniform within zone; elevation in feet\***

\*Referenced to the North American Vertical Datum of 1988

- Cross section line**
- Transect line**
- Culvert**
- Bridge**
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere**  
5000-foot grid; Connecticut State Plane Feet Zone (FIPS Zone 0600), Lambert Conformal Conic projection  
1000-meter Universal Transverse Mercator grid values, zone 18N
- Bench mark (see explanation in Notes to Users section of this FIRM panel)**

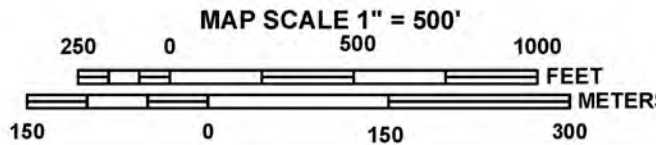
**MAP REPOSITORIES**  
Refer to Map Repository in the Map Index

**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
August 28, 2008

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
February 6, 2013 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations to update the effects of wave action, to update corporate limits, to add roads and road names, to incorporate previously issued Letters of Map Revision and to modify Coastal Barrier Resources System units.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0343J

**FIRM**

FLOOD INSURANCE RATE MAP

MIDDLESEX COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 343 OF 450

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
OLD SAYBROOK, TOWN OF	090069	0343	J
WESTBROOK, TOWN OF	090070	0343	J

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**  
09007C0343J

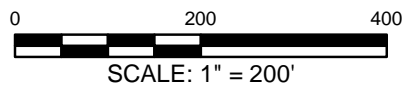
**MAP REVISED**  
FEBRUARY 6, 2013

Federal Emergency Management Agency





**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  
 6 Beach Road West  
 Old Saybrook, Connecticut

Eagle Environmental, Inc.  
 Terryville, Connecticut



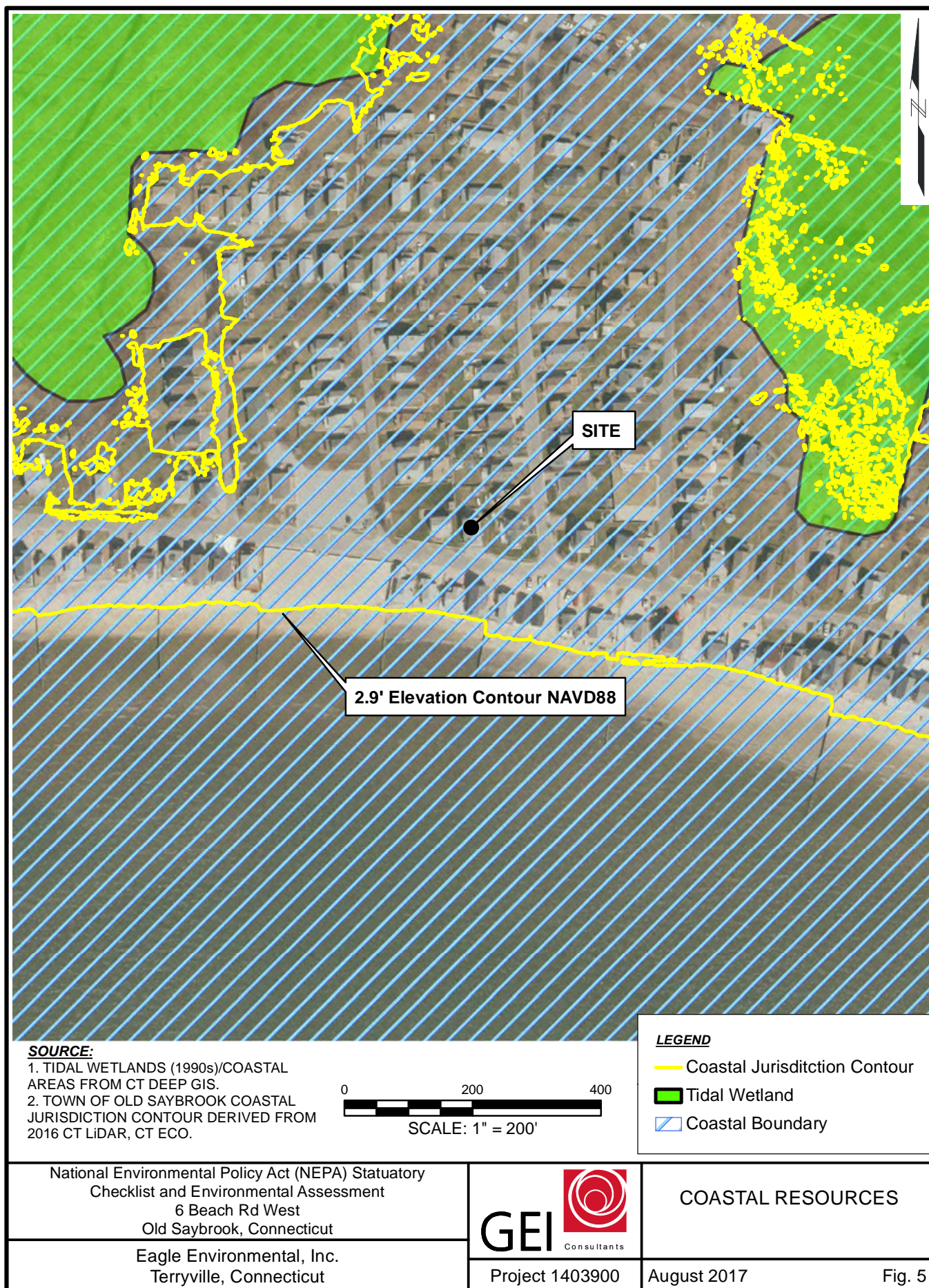
Project 1403900

NATIONAL WETLANDS  
 INVENTORY (NWI)

August 2017

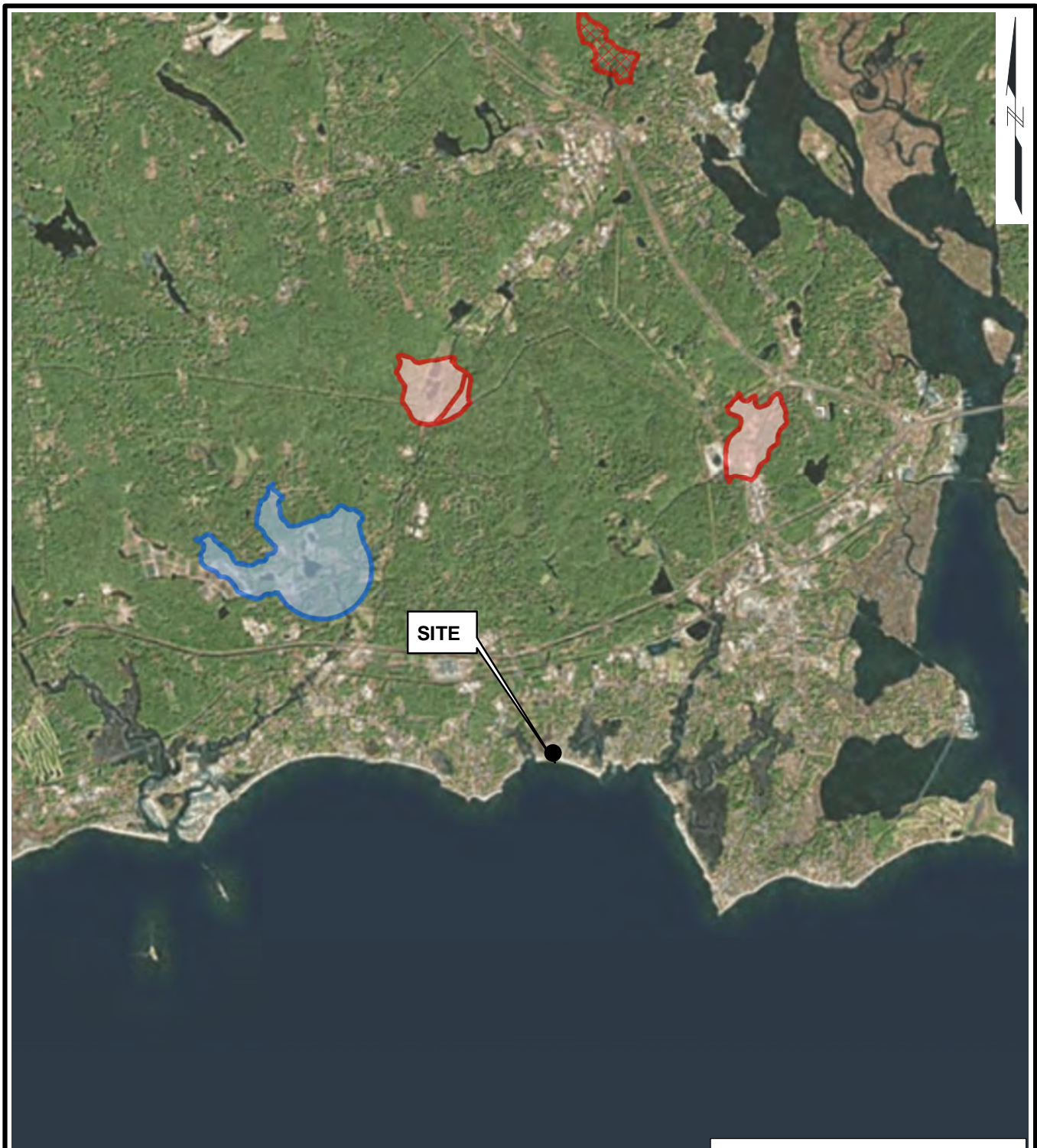
Fig. 4



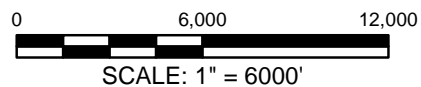


J:\Projects\Eagle Environmental\NEPA\6 Beach Road West Old Saybrook\Coastal\_Resources.mxd





**SOURCE:**  
1. AQUIFER PROTECTION LAYER  
FROM CT DEEP GIS, LAST UPDATED  
FEB 2017.



**LEGEND**

- Final Adopted Aquifer Protection
- Final Aquifer Protection
- Preliminary Aquifer Protection

National Environmental Policy Act (NEPA) Statutory  
Checklist and Environmental Assessment  
6 Beach Rd West  
Old Saybrook, Connecticut

Eagle Environmental, Inc.  
Terryville, Connecticut



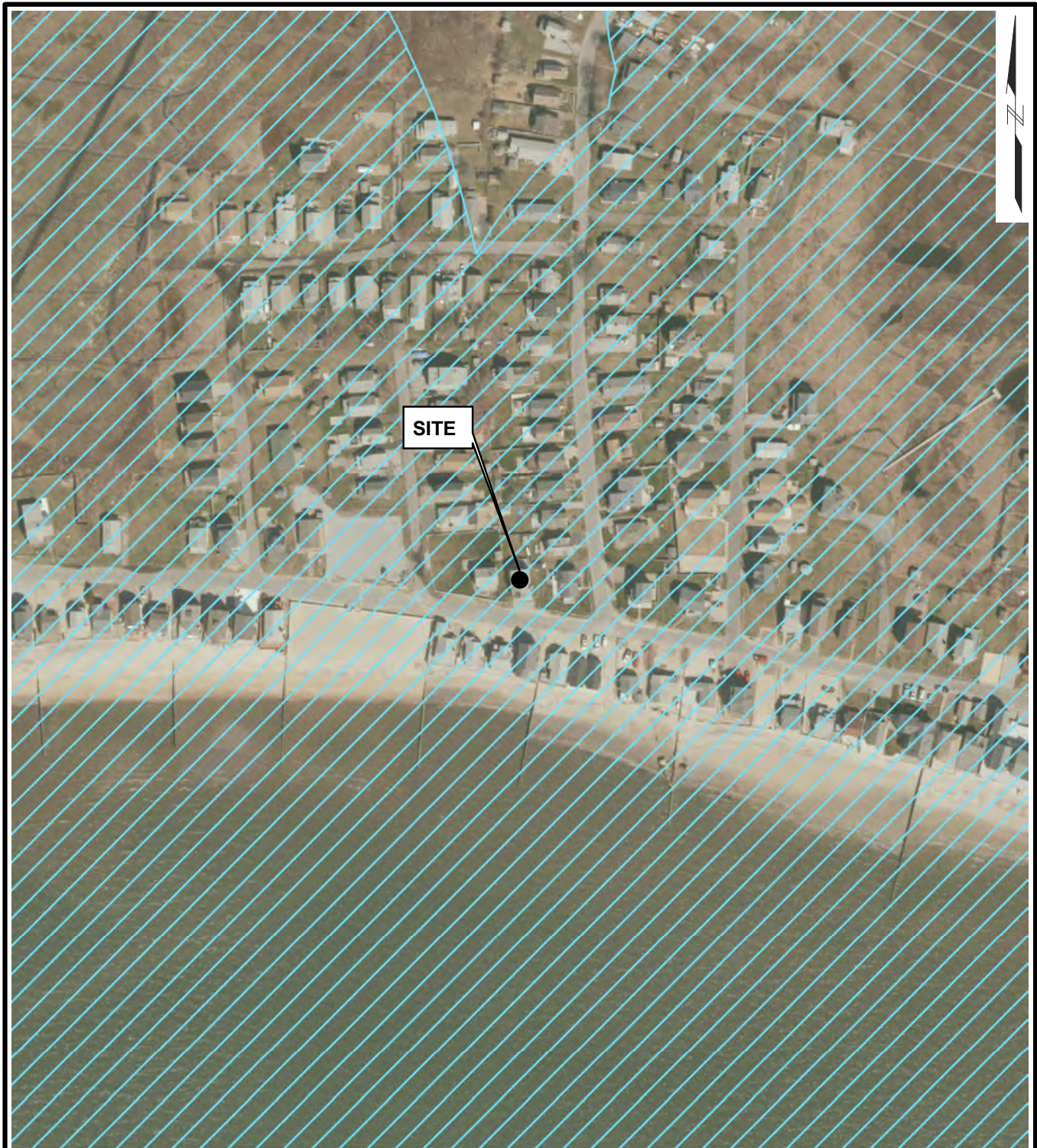
Project 1403900

**AQUIFER PROTECTION  
AREA**

August 2017

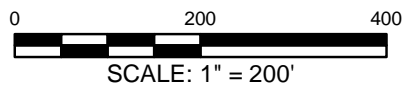
Fig. 6





**SOURCE:**

1. NDDDB DATA, CT DEEP GIS, LAST  
UPDATED JUNE 2017.



**LEGEND**

 Natural Diversity Area

National Environmental Policy Act (NEPA) Statutory  
Checklist and Environmental Assessment  
6 Beach West Rd  
Old Saybrook, Connecticut

Eagle Environmental, Inc.  
Terryville, Connecticut



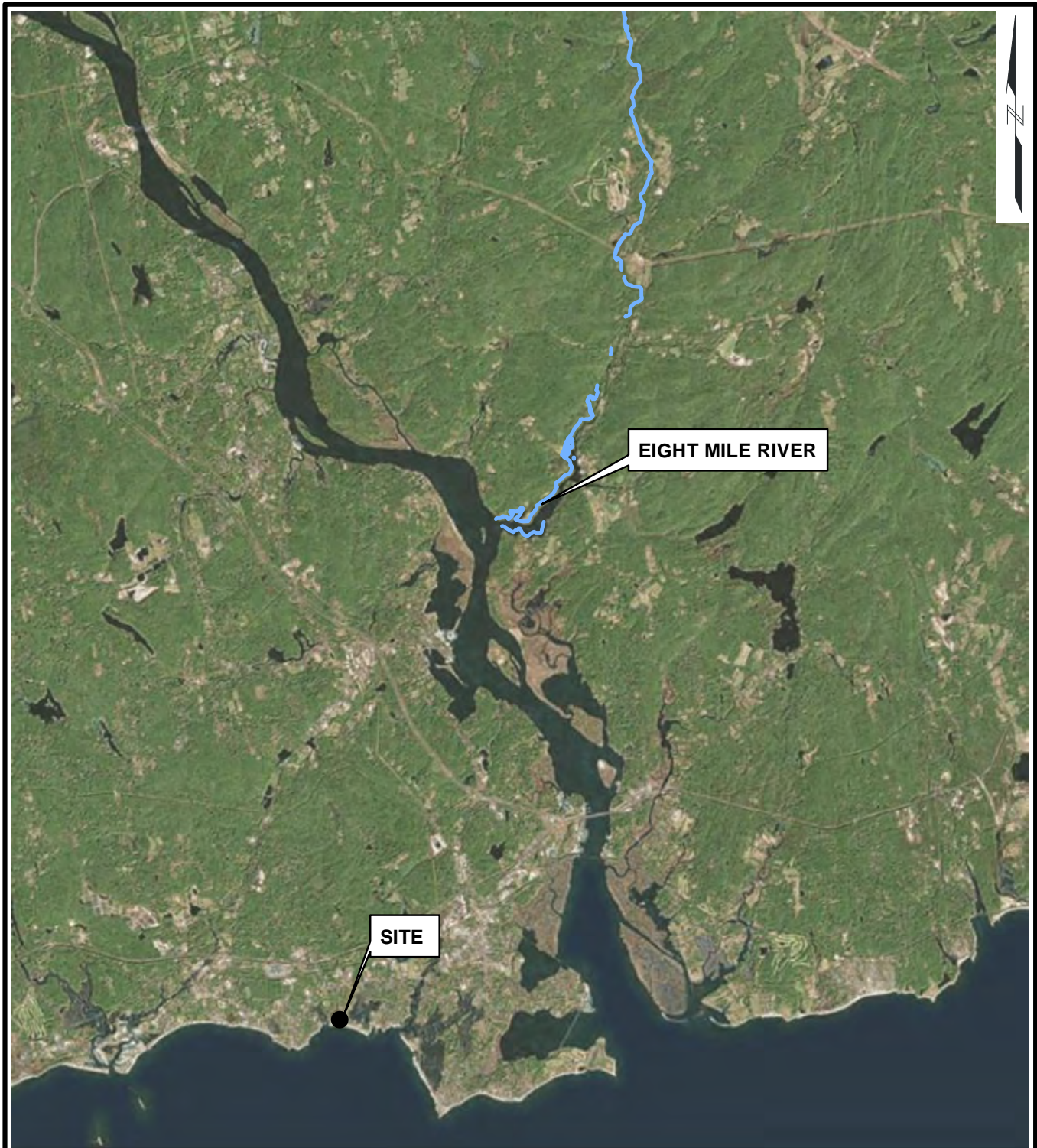
Project 1403900

NATURAL DIVERSITY  
DATABASE AREA AND  
CRITICAL HABITAT

August 2017

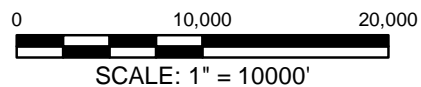
Fig. 7





**SOURCE:**

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



**LEGEND**

— WATERBODY LINE

National Environmental Policy Act (NEPA) Statutory  
Checklist and Environmental Assessment  
6 Beach Rd West  
Old Saybrook, Connecticut

Eagle Environmental, Inc.  
Terryville, Connecticut



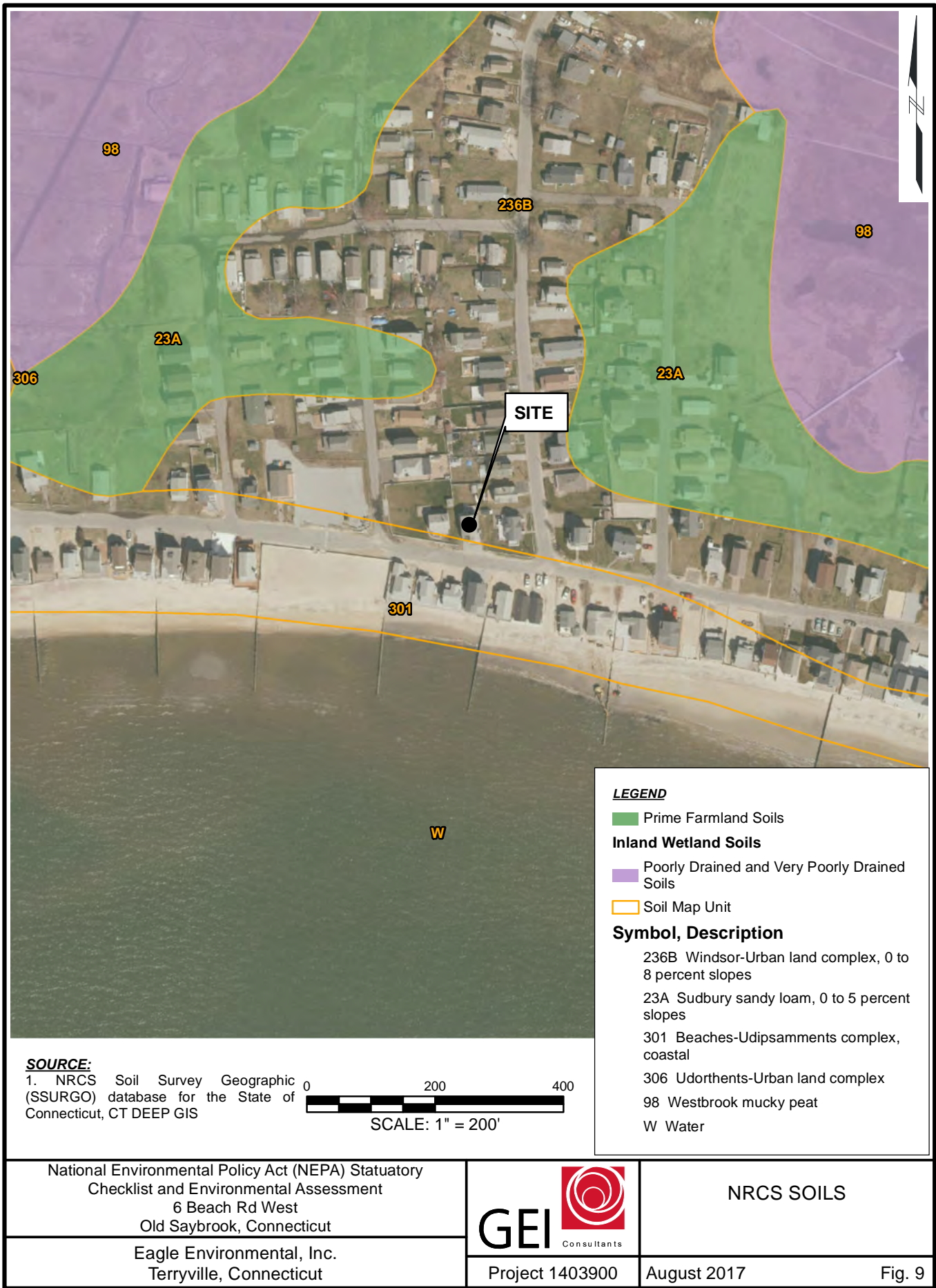
Project 1403900

DISTANCE TO WILD AND  
SCENIC RIVER

August 2017

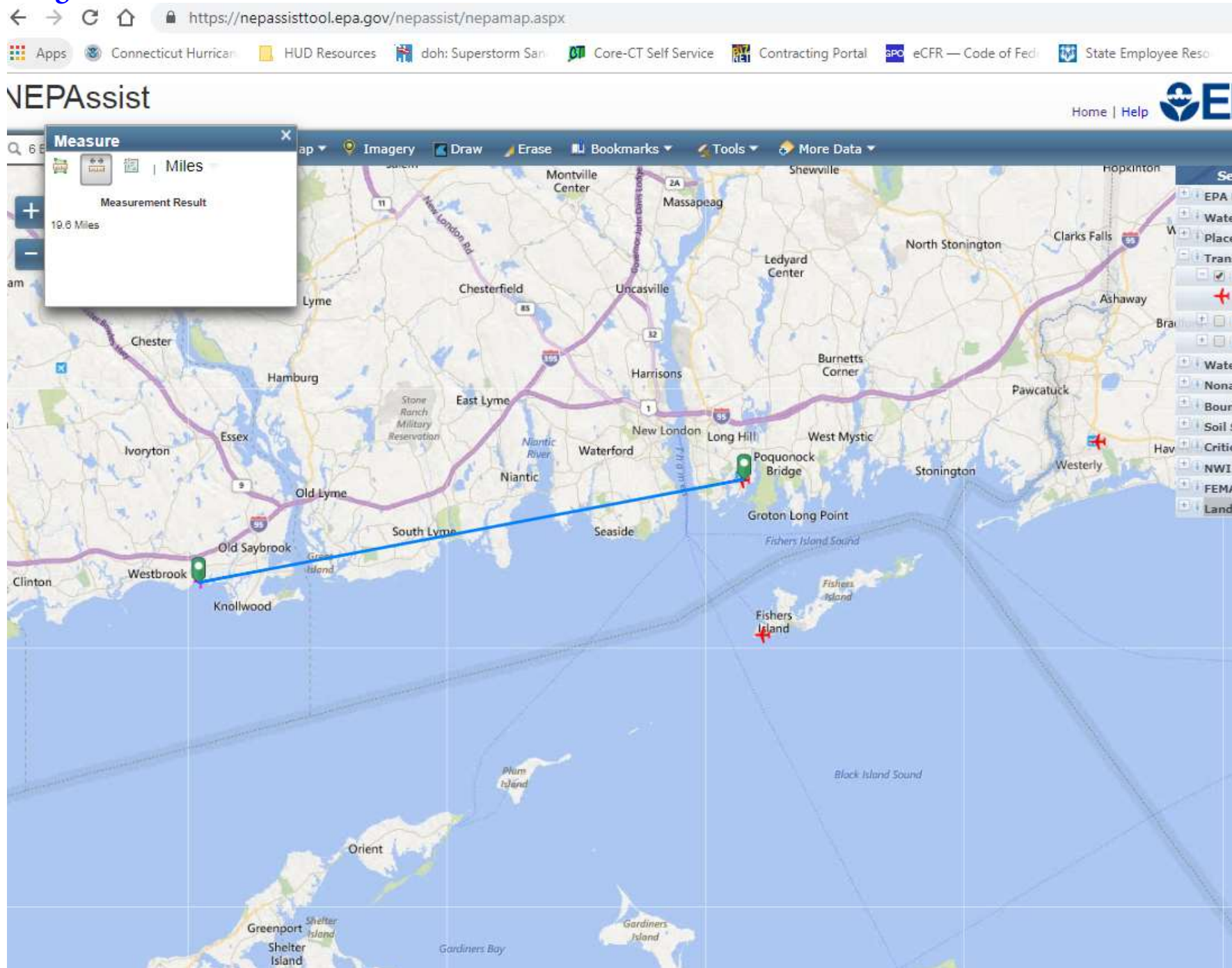
Fig. 8





J:\Projects\Eagle Environmental\NEPA\6 Beach Road West Old Saybrook\Soils.mxd

Figure 10





## Attachment A



Department of Economic and  
Community Development

State Historic Preservation Office

November 28, 2017

Mark Gorka  
CDBG - Sandy Disaster Recovery Program  
Department of Housing  
505 Hudson Street  
Hartford, CT 06106

Subject: 6 Beach Road (Application #2157)  
Old Saybrook, Connecticut

Dear Mr. Gorka:

The State Historic Preservation Office has reviewed the information submitted to our office for the above-named property received on October 27, 2017 pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. SHPO understands that the property owners have requested financial assistance from your office for the elevation of their property. It is the opinion of this office that the property located at 6 Beach Road does not appear to be eligible for listing on the National Register of Historic Places as an individual property or as a contributing element to a historic district. Based on the information provided to this office, no historic properties will be affected by the proposed rehabilitation and elevation.

This office appreciates the opportunity to review and comment upon this project. For additional information, please contact me at (860) 500-2329 or [catherine.labadia@ct.gov](mailto:catherine.labadia@ct.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Catherine Labadia".

Catherine Labadia  
Deputy State Historic Preservation Officer

State Historic Preservation Office

450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | [Cultureandtourism.org](http://Cultureandtourism.org)

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

## Attachment B



### United States Department of the Interior

FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 Commercial Street, Suite 300  
Concord, NH 03301-5094  
Phone: (603) 223-2541 Fax: (603) 223-0104  
<http://www.fws.gov/newengland>



In Reply Refer To:

September 26, 2017

Consultation Code: 05E1NE00-2017-SLI-2838

Event Code: 05E1NE00-2017-E-06120

Project Name: 6 Beach Rd W

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

To Whom It May Concern:

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

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

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

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

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

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

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

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

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

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

Attachment(s):

- Official Species List



## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New England Ecological Services Field Office**

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

## Project Summary

Consultation Code: 05E1NE00-2017-SLI-2838

Event Code: 05E1NE00-2017-E-06120

Project Name: 6 Beach Rd W

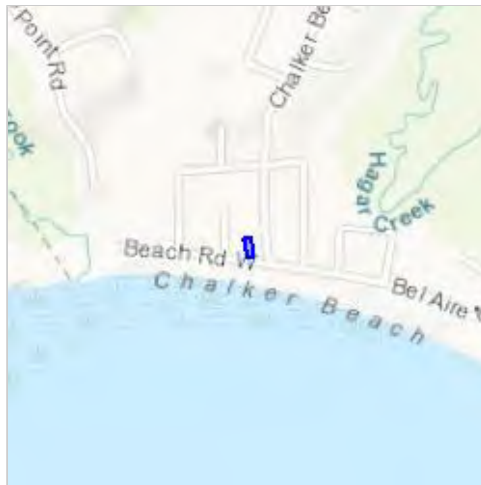
Project Type: \*\* OTHER \*\*

Project Description: Residential Rehab

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/41.27909024469187N72.41301934405097W>



Counties: Middlesex, CT

## Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this 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. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

### Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species.  Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

### Birds

NAME	STATUS
Red Knot <i>Calidris canutus rufa</i> No critical habitat has been designated for this species.  Species profile: <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>	Threatened
Roseate Tern <i>Sterna dougallii dougallii</i> Population: northeast U.S. nesting pop. No critical habitat has been designated for this species.  Species profile: <a href="https://ecos.fws.gov/ecp/species/2083">https://ecos.fws.gov/ecp/species/2083</a>	Endangered

### Critical habitats

There are no critical habitats within your project area under this office's jurisdiction.

# Attachment C

## 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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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

<sup>1</sup> 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.

## Attachment D



### 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 20, 2017

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> (accessed January 2017)

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:** 6 Beach Rd West  
6 Beach Rd W  
Old Saybrook CT 06475

**Project No:**

**Report Type:** Screen Report

**Order No:** 20170926042

**Requested by:** GEI Consultants Inc.

**Date Completed:** September 26, 2017

**Environmental Risk  
Information Services**  
A division of Glacier Media Inc.  
P: 1.866.517.5204  
E: [info@erisinfo.com](mailto:info@erisinfo.com)  
**[www.erisinfo.com](http://www.erisinfo.com)**

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## **Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY**

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

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# Executive Summary

## Property Information:

**Project Property:** 6 Beach Rd West  
6 Beach Rd W Old Saybrook CT 06475

**Project No:**

**Coordinates:**

**Latitude:** 41.279102  
**Longitude:** -72.413026  
**UTM Northing:** 4,572,968.85  
**UTM Easting:** 716,657.75  
**UTM Zone:** UTM Zone 18T

**Elevation:** 1 FT

## Order Information:

**Order No:** 20170926042  
**Date Requested:** September 26, 2017  
**Requested by:** GEI Consultants Inc.  
**Report Type:** Screen Report

## Historicals/Products:

## Executive Summary: Report Summary

<i>Database</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.125mi</i>	<i>Total</i>
<b><u>Standard Environmental Records</u></b>				
<b>Federal</b>				
NPL	Y	0	0	0
PROPOSED NPL	Y	0	0	0
DELETED NPL	Y	0	0	0
SEMS	Y	0	0	0
SEMS ARCHIVE	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 LQG	Y	0	0	0
RCRA SQG	Y	0	0	0
RCRA CESQG	Y	0	0	0
RCRA NON GEN	Y	0	0	0
FED ENG	Y	0	0	0
FED INST	Y	0	0	0
ERNS 1982 TO 1986	Y	0	0	0
ERNS 1987 TO 1989	Y	0	0	0
ERNS	Y	0	0	0
FED BROWNFIELDS	Y	0	0	0
FEMA UST	Y	0	0	0
SEMS LIEN	Y	0	0	0
<b>State</b>				
SHWS	Y	0	0	0
DELISTED SHWS	Y	0	0	0
SWF/LF	Y	0	0	0
LUST	Y	0	0	0

Database	Searched	Project Property	Within 0.125mi	Total
DLST	Y	0	0	0
UST	Y	0	0	0
DELISTED TANKS	Y	0	0	0
AUL	Y	0	0	0
AST	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

#### Tribal

ILST	Y	0	0	0
IUST	Y	0	0	0
INDIAN VCP	Y	0	0	0
DELISTED ILST	Y	0	0	0
DELISTED IUST	Y	0	0	0

#### County

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

#### Additional Environmental Records

##### Federal

FINDS/FRS	Y	0	2	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
FTTS ADMIN	Y	0	0	0
FTTS INSP	Y	0	0	0
PRP	Y	0	0	0
SCRD DRYCLEANER	Y	0	0	0
ICIS	Y	0	0	0
FED DRYCLEANERS	Y	0	0	0
DELISTED FED DRY	Y	0	0	0
FUDS	Y	0	0	0
MLTS	Y	0	0	0
HIST MLTS	Y	0	0	0
MINES	Y	0	0	0
ALT FUELS	Y	0	0	0

<b>Database</b>	<b>Searched</b>	<b>Project Property</b>	<b>Within 0.125mi</b>	<b>Total</b>
SUPERFUND ROD	Y	0	0	0
SSTS	Y	0	0	0
PCB	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 5 5

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
------------	----	-------------------	---------	-----------	---------------------	-------------------	----------------

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

## Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">1</a>	FINDS/FRS	BEACH ROAD WEST & BEACH ROAD EAST	BEACH ROAD WEST & BEACH ROAD EAST OLD SAYBROOK CT 06475	SE	0.02 / 102.62	0	<a href="#">13</a>
<a href="#">2</a>	SPILLS		4 brooke st. OLD SAYBROOK CT <b>Case NO / Status:</b> 9703840   Closed	WNW	0.02 / 114.48	0	<a href="#">13</a>
<a href="#">3</a>	SPILLS		126 Chalker Beach Rd. Old Saybrook CT <b>Case NO / Status:</b> 201201400   CLOSED	NNE	0.05 / 245.69	1	<a href="#">14</a>
<a href="#">4</a>	SPILLS		51 beach rd west OID SAYBROOK CT <b>Case NO / Status:</b> 201303174   CLOSED	W	0.09 / 456.80	0	<a href="#">15</a>
<a href="#">5</a>	FINDS/FRS	7 & 11 CHANDLER AVE.	7 & 11 CHANDLER AVE. OLD SAYBROOK CT 06475	E	0.09 / 474.75	0	<a href="#">17</a>

## Executive Summary: Summary by Data Source

### Non Standard

#### Federal

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

A search of the FINDS/FRS database, dated Jun 1, 2017 has found that there are 2 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

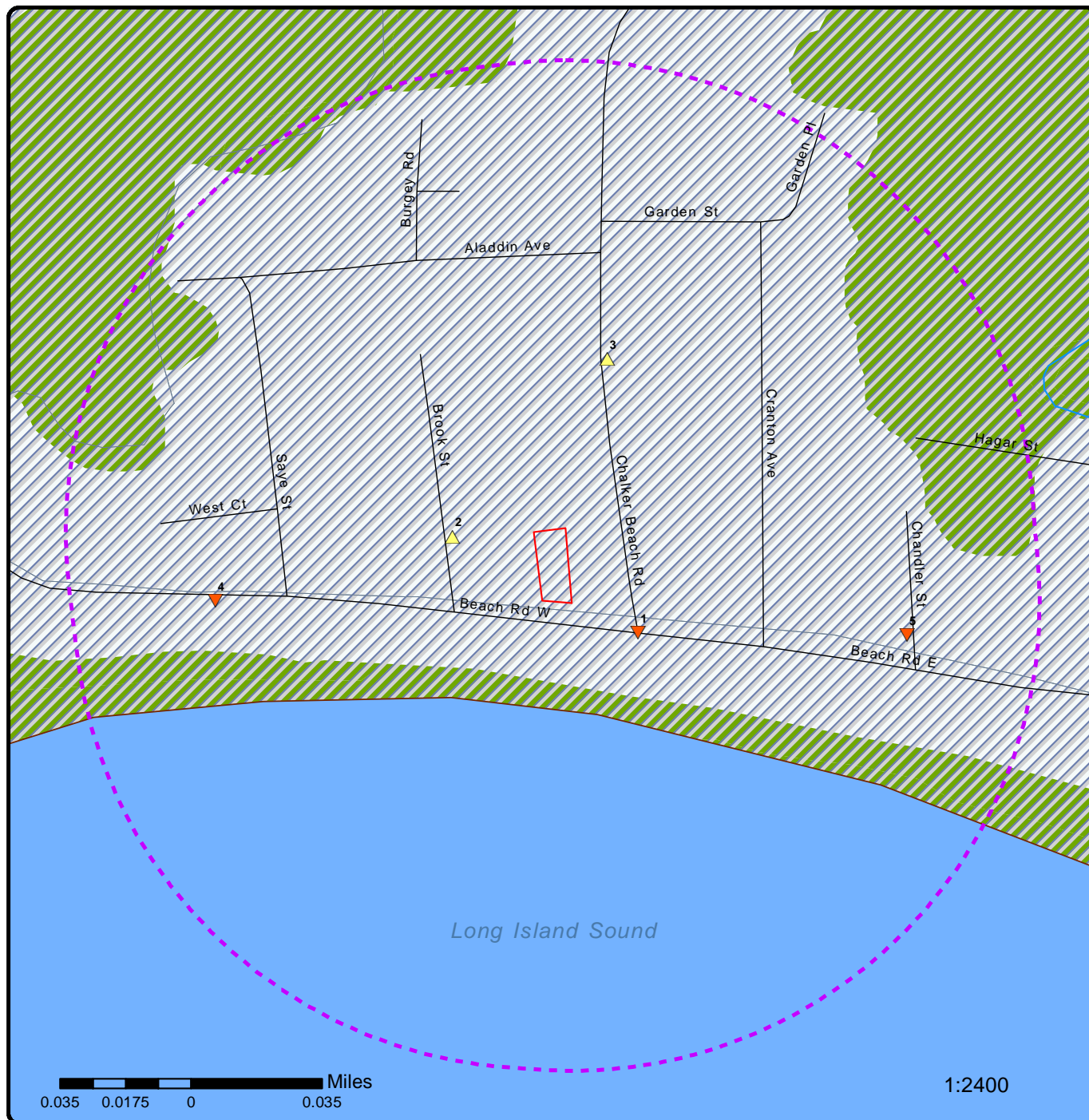
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BEACH ROAD WEST & BEACH ROAD EAST	BEACH ROAD WEST & BEACH ROAD EAST OLD SAYBROOK CT 06475	SE	0.02 / 102.62	<a href="#"><u>1</u></a>
7 & 11 CHANDLER AVE.	7 & 11 CHANDLER AVE. OLD SAYBROOK CT 06475	E	0.09 / 474.75	<a href="#"><u>5</u></a>

#### State

##### **SPILLS - Spill Incident Tracking System (SITS)**

A search of the SPILLS database, dated Oct 13, 2016 has found that there are 3 SPILLS site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	4 brooke st. OLD SAYBROOK CT	WNW	0.02 / 114.48	<a href="#"><u>2</u></a>
	<b>Case NO / Status:</b> 9703840   Closed			
	126 Chalker Beach Rd. Old Saybrook CT	NNE	0.05 / 245.69	<a href="#"><u>3</u></a>
	<b>Case NO / Status:</b> 201201400   CLOSED			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	51 beach rd west OID SAYBROOK CT	W	0.09 / 456.80	<a href="#"><u>4</u></a>
	<b>Case NO / Status:</b> 201303174   CLOSED			



## Map : 0.125 Mile Radius

Order No: 20170926042

Address: 6 Beach Rd W, Old Saybrook, CT 06475 US



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





## Aerial

**Address:** 6 Beach Rd W, Old Saybrook, CT 06475 US

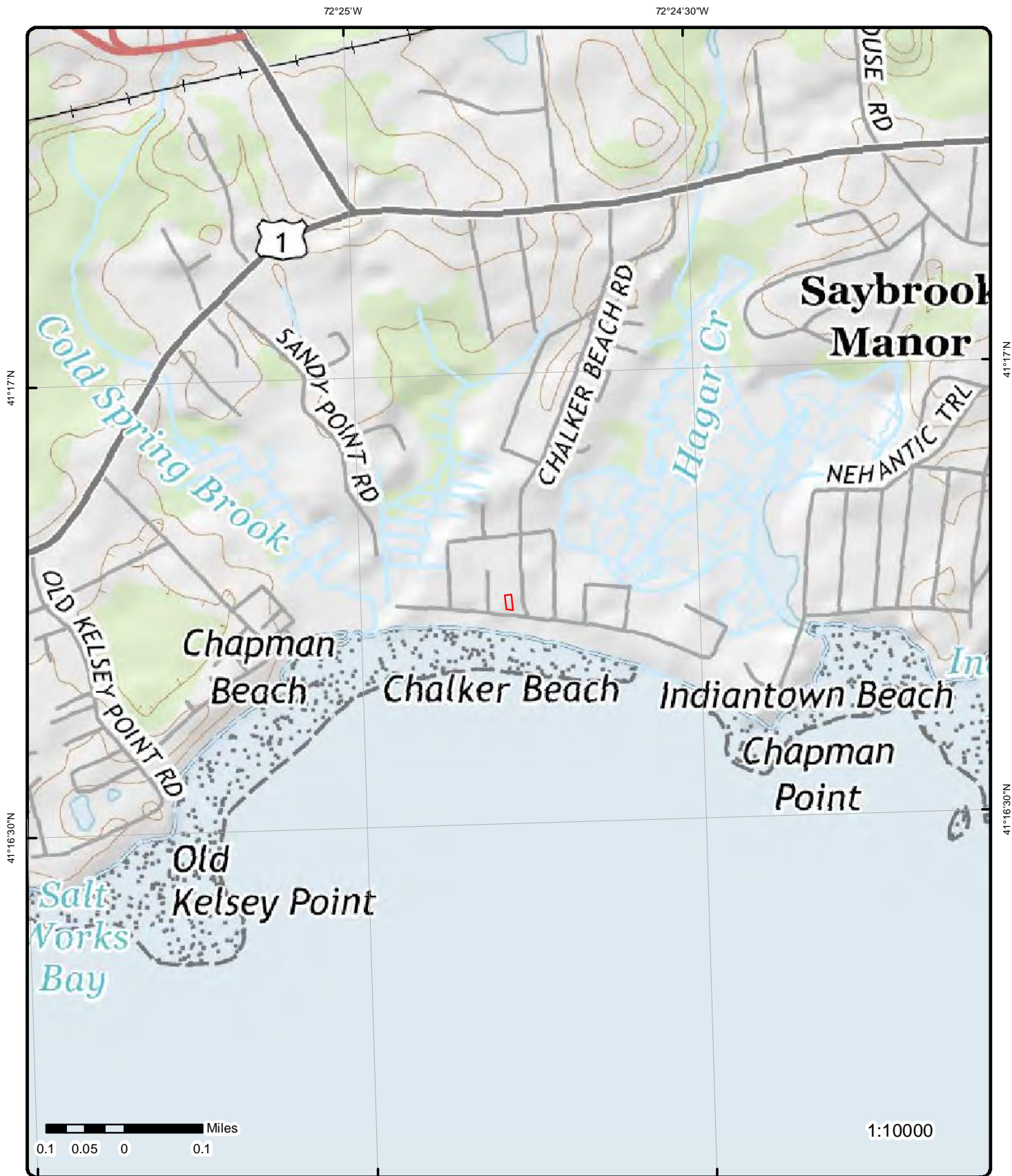
**Source:** ESRI World Imagery

Order No: 20170926042



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## Topographic Map

Address: 6 Beach Rd W, Old Saybrook, CT 06475 US

Source: USGS Topographic Map

Order No: 20170926042



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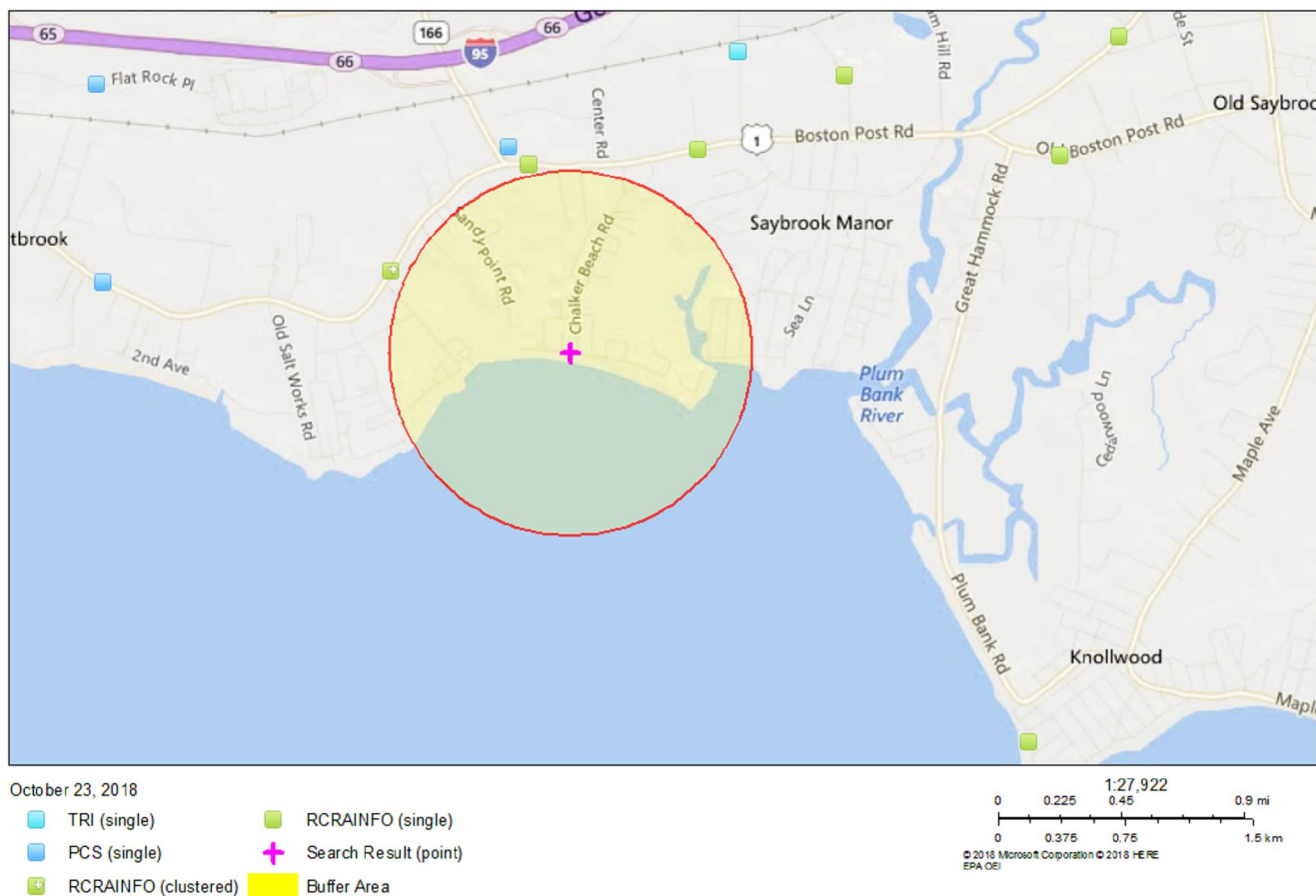
# Attachment F

2016 Distressed Municipalities List  
8/23/2016

2016 Distressed Municipalities Ranked by Score			2016 Distressed Municipalities In town alphabetical order		
	Total Scores			Total Scores	
New London	1427	1	Ansonia	1406	2
Ansonia	1406	2	Bridgeport	1305	8
Waterbury	1406	3	Bristol	1254	13
New Britain	1365	4	Derby	1325	6
Hartford	1339	5	East Hartford	1272	11
Derby	1325	6	East Haven	1176	22
Putnam	1311	7	Enfield	1211	17
Bridgeport	1305	8	Griswold	1203	19
West Haven	1277	9	Hartford	1339	5
Meriden	1273	10	Killingly	1155	25
East Hartford	1272	11	Meriden	1273	10
Norwich	1257	12	Montville	1185	20
Bristol	1254	13	Naugatuck	1242	14
Naugatuck	1242	14	New Britain	1365	4
Windham	1236	15	New Haven	1177	21
Torrington	1232	16	New London	1427	1
Enfield	1211	17	Norwich	1257	12
Sprague	1211	18	Plainfield	1158	24
Griswold	1203	19	Plymouth	1164	23
Montville	1185	20	Putnam	1311	7
New Haven	1177	21	Sprague	1211	18
East Haven	1176	22	Torrington	1232	16
Plymouth	1164	23	Waterbury	1406	3
Plainfield	1158	24	West Haven	1277	9
Killingly	1155	25	Windham	1236	15

# NEPAssist Report

## #2157 Glanz Residence



Project Location	41.278889,- 72.413088
Within 0.5 miles of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	yes
Within 0.5 miles of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	yes
Within 0.5 miles of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 0.5 miles of a Federal Land?	no
Within 0.5 miles of an impaired stream?	yes
Within 0.5 miles of an impaired waterbody?	yes
Within 0.5 miles of a waterbody?	yes
Within 0.5 miles of a stream?	yes
Within 0.5 miles of an NWI wetland?	Available Online
Within 0.5 miles of a Brownfields site?	no
Within 0.5 miles of a Superfund site?	no
Within 0.5 miles of a Toxic Release Inventory (TRI) site?	no
Within 0.5 miles of a water discharger (NPDES)?	no
Within 0.5 miles of a hazardous waste (RCRA) facility?	no
Within 0.5 miles of an air emission facility?	no

Within 0.5 miles of a school?	no
Within 0.5 miles of an airport?	no
Within 0.5 miles of a hospital?	no
Within 0.5 miles of a designated sole source aquifer?	no
Within 0.5 miles of a historic property on the National Register of Historic Places?	no
Within 0.5 miles of a Toxic Substances Control Act (TSCA) site?	no
Within 0.5 miles of a RADInfo site?	no

Created on: 10/23/2018 9:20:19 AM



**EAGLE**  
**Environmental, Inc.**

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

October 23, 2017

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

**RE: Environmental Assessment Report**  
**Department of Housing**  
**CDBG-DR – Sandy Disaster Recovery Program**  
**6 Beach Road West**  
**Old Saybrook, Connecticut**  
**Application #2157**  
**Eagle Project No. 17-016.11T4**

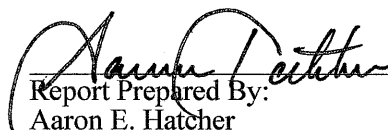
Dear Mr. Holmes:


Please find the attached Environmental Assessment Report conducted at 6 Beach Road West in Old Saybrook, 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 comprehensive 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  
Project Manager

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## **1. INTRODUCTION**

On August 31, 2017, Eagle Environmental, Inc. conducted an environmental assessment of portions of the Site building located at 6 Beach Road, West in Old Saybrook, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint inspection and risk assessment as well as 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 July 28, 2017. For the purpose of this project the asbestos-containing materials inspection concentrated on areas of the building that are scheduled to be impacted in order to support the planned renovation/repairs. The following are areas that were inspected:

- Living Room
- Front Bedroom
- Kitchen
- Exterior
- Roof

In addition to testing the areas of the building that will be impacted by the renovation work, a comprehensive 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 may be found in the XRF Lead Inspection Detailed Report.

## **2. SCOPE OF INSPECTION**

### **2.1 Asbestos Containing Materials**

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

The asbestos inspection was performed by Leith Gilden; a State of Connecticut licensed Asbestos Inspector (license #000935).

### **2.2 Lead-based Paint**

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 Melinda Rohde; a State of Connecticut licensed Lead Inspector/Risk Assessor (license #002268).

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. For the purpose of this project and report no children under the age of six (6) years old resided at the Site building 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.

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

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

### **2.4 Mold Inspection**

Eagle performed a visual inspection for the presence of suspect mold within the inspected 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 6 Beach Road West in Old Saybrook, Connecticut.

### **3.1.3.2 Non Friable ACM Analysis**

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method for 6 Beach Road West in Old Saybrook, 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 1364 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/cm<sup>2</sup>. The Detailed Report is an inventory of each tested surface on a room-by-room basis.

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

## **3.3 Risk Assessment**

The intent of the risk assessment is to determine the presence or absence of lead-based paint hazards and to suggest appropriate hazard control measures. The actual process of performing the risk assessment can be broken down into four (4) major components that include: 1) documentation of building and tenant data, including family use patterns, 2) a

visual assessment of the integrity of painted surfaces, 3) environmental sampling and 4) lead hazard control options. The data collected from the first three components of the risk assessment will help the Risk Assessor identify the existence, nature, severity; source and location of lead-based paint hazards and will allow the Risk Assessor to provide options for controlling the lead hazards.

### General

The visual assessment is conducted to locate potential lead-based paint hazards and to evaluate the magnitude of the hazard. The visual assessment identifies deteriorated painted surfaces, areas of visible dust accumulation, areas of bare soil, painted impact and friction surfaces and painted surfaces on which a child may have chewed. The information gathered during the visual inspection is used to determine where environmental samples are collected and preliminarily define the lead hazard controls or abatement efforts needed.

### Conditions of Painted Surfaces

The Risk Assessor conducts a room-by-room examination of the painted surfaces in the dwelling, including the interior, common areas and exterior. Painted surfaces are rated as "intact" or "deteriorated" in accordance with the rating system described in Chapter 5 of the HUD Guidelines. Painted surfaces receiving a rating of "deteriorated" are considered lead hazards while painted surfaces rated as "intact" are not.

The visual assessment also evaluates factors that may have contributed to a surface receiving a "deteriorated" rating such as moisture and water damage. For the purpose of this lead-based paint risk assessment, paint containing a lead concentration of 1.0 mg/cm<sup>2</sup> or greater that is in "deteriorated" condition, is considered a lead hazard. Therefore, any component or surface identified in the Summary Report and receiving a condition rating of "deteriorated (D)" is considered a lead hazard.

### Friction and Impact Surfaces

Friction surfaces are surfaces that have moveable parts and rub against one another when operated. Windows and doors are the most common sources of friction surfaces. The window jamb, window stops, window parting beads, and window sashes are components of a window system that rub against one another when operated. The portion of the interior window sill that rubs against the window sash when the window is closed is also considered a friction surface. The impact point of the door where it strikes the door jamb and jamb stop is considered a friction surface.

Floors, stair treads, and window wells are examples of impact surfaces. Impact surfaces are surfaces that are subject to impact by other forces such as foot traffic on a painted floor. Both friction and impact surfaces may have varying degrees of damage depending on the use frequency. Friction and impact surfaces, if coated with lead based paint, generate lead dust due to the abrasion of the paint during usage.

### Settled Dust Assessment

During the visual assessment, the Risk Assessor evaluates areas where settled dust may accumulate, such as on window sills and floors. Settled dust, if contaminated with lead, presents an exposure risk to children residing in the dwelling unit. Locations of lead-based paint throughout the building and family use patterns are some of the factors that the Risk Assessor takes into account when deciding where to perform dust sampling.

### Soil Assessment

Areas of bare soil around the dwelling and within children's play areas may be contaminated with lead. The risk assessment evaluates the lead exposure potential from soil. For the purpose of this risk assessment, the yard surrounding the building is evaluated to determine if visible paint chips and/or bare soil areas are present.

### **3.4 Radon Testing**

The Site building will be raised to proper flood elevation and placed on concrete piers. The Site building will no longer have direct contact with the ground once elevated and was not required to have radon testing performed.

### **3.5 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 twenty-seven (27) bulk samples of suspect ACM were collected analyzed by PLM request to the laboratory. All suspect materials tested were confirmed to be non-ACM

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

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

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 and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections and air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual and air clearance inspection criteria prior to building renovation / demolition. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

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

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

A copy of this lead-based paint inspection report must be provided to residents within fifteen (15) days of the building's evaluation. A total of two hundred sixty-four (264) XRF readings were collected during the lead-based paint inspection of the building. From the two hundred sixty-four (264) readings, only one (1) was found to contain toxic levels of lead-based paint exceeding the threshold of 1.0 mg/cm<sup>2</sup>.

Toxic levels of lead-based paint were identified on the porch floor situated on the "A" Facade.

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

Federal funding for this project is anticipated to be greater than \$25,000.00 per unit. All interior and exterior lead-based paint hazards must undergo permanent abatement procedures. This residence is considered target housing (housing constructed prior to 1978) by the USEPA. All lead-hazard 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 Dust Hazards**

A total of ten (10) dust wipes were collected at the time of inspection. There were no dust-lead hazards identified in the following sampled locations:

- Kitchen Floor
- Kitchen Window Sill
- Living Room Floor
- Living Room Window Sill
- Front Bedroom 1 Floor
- Front Bedroom 1 Window Sill
- Front Bedroom 2 Floor
- Front Bedroom 2 Window Sill

#### **4.2.2 Soil-Lead Hazards**

No bare areas of soil were identified at the time of the inspection; therefore no soil-lead hazards were identified. No further action is required.

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

### **4.3 Radon**

Radon testing was not required at the building will be elevated and place on concrete piers and will no longer be in direct contact with the ground.

### **4.4 Mold**

The homeowner advised the inspectors that due to the severe winds during Hurricane Sandy sections of the roofing materials were dislodged causing significant water damage in multiple areas of the inspected building. Areas of the building where water intrusion may have occurred resulted in minimal water staining and some discoloration. The physical inspection identified visible microbial sporulation within the 1<sup>st</sup> floor Bathroom at the wall and ceiling junction, which may be a result of moisture build up from general everyday use. It was also noted that visible mold growth was present on and around the window opening and the associated wall within the 2<sup>nd</sup> floor bathroom, which may also be a derivative of general everyday use. Due to the location and the close proximity to water it was noted that the composite deck system situated at the rear of the property was covered with visible mildew and potential microbial sporulation.

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 6.



## **5. COST ESTIMATES**

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

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

The cost estimates are provided in Appendix 7.

**TABLE I**  
**ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE**

# KEY FOR TABLES I and II

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

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

**TABLE I**  
**ASBESTOS CONTAINING MATERIALS**  
**SUMMARY TABLE**  
**6 BEACH ROAD WEST**  
**OLD SAYBROOK, CONNECTICUT**

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM	NOB		
NO ASBESTOS WAS DETECTED IN THIS SCOPE OF WORK									

**TABLE II**

**NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE**



# KEY FOR TABLES I and II

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

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

**TABLE II**  
**NON - ASBESTOS CONTAINING MATERIALS**  
**SUMMARY TABLE**  
**6 BEACH ROAD WEST**  
**OLD SAYBROOK, CONNECTICUT**

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Room 001	Mortar at stone fireplace	08-31-LG-01	MISC	NAD			NO
		08-31-LG-02		NAD			
Room 001	Sealant at wall/brick junction at fireplace walls	08-31-LG-03	MISC	NAD			NO
		08-31-LG-04		NAD			
Rooms 001, 002	Sheetrock	08-31-LG-05	MISC	NAD			NO
		08-31-LG-06		NAD			
Rooms 001, 002	Joint compound - white	08-31-LG-07	MISC	NAD			NO
		08-31-LG-08		NAD			
Rooms 001, 002	Sheetrock/joint compound composite	08-31-LG-09	MISC	NAD			NO
		08-31-LG-10		NAD			
Room 001	Textured ceiling paint - white	08-31-LG-11	SURF	NAD			NO
		08-31-LG-12		NAD			
		08-31-LG-13		NAD			
Room 003	Mudset associated with 12" x 12" ceramic floor tile	08-31-LG-14	MISC	NAD			NO
		08-31-LG-15		NAD			
Room 003	Grout associated with 12" x 12" ceramic floor tile	08-31-LG-16	MISC	NAD			NO
		08-31-LG-17		NAD			
Exterior	Tar paper on concrete piers under house	08-31-LG-24	MISC	NAD			NO
		08-31-LG-25		NAD			
Exterior	Mortar at CMU footings under house	08-31-LG-26	MISC	NAD			NO
		08-31-LG-27		NAD			
Exterior	Paper barrier behind vinyl siding - side B	08-31-LG-28	MISC	NAD			NO
		08-31-LG-29		NAD			
Roof	Asphalt shingles - 2 <sup>nd</sup> layer	08-31-LG-30	MISC	NAD			NO
		08-31-LG-31		NAD			
Roof	Flashing cement at side B porch - grey	08-31-LG-32	MISC	NAD			NO
		08-31-LG-33		NAD			

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

# CAPITOL STUDIO ARCHITECTS

6 BEACH ROAD WEST  
OLD SAYBROOK, CONNECTICUT

EAGLE PROJECT NUMBER: 17-016.11T4

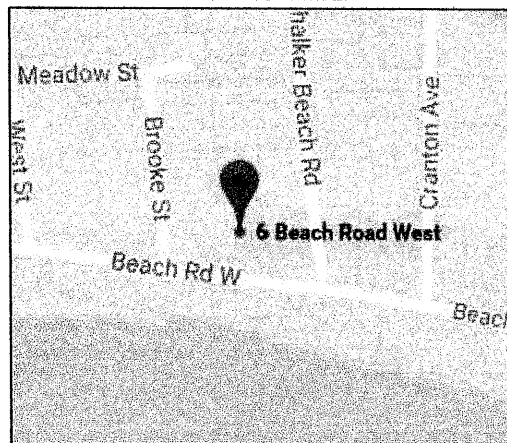
## INDEX OF DRAWINGS

SP-1 SITE PLAN

FP-1 FIRST FLOOR PLAN

FP-2 SECOND FLOOR PLAN

## LOCATION MAP

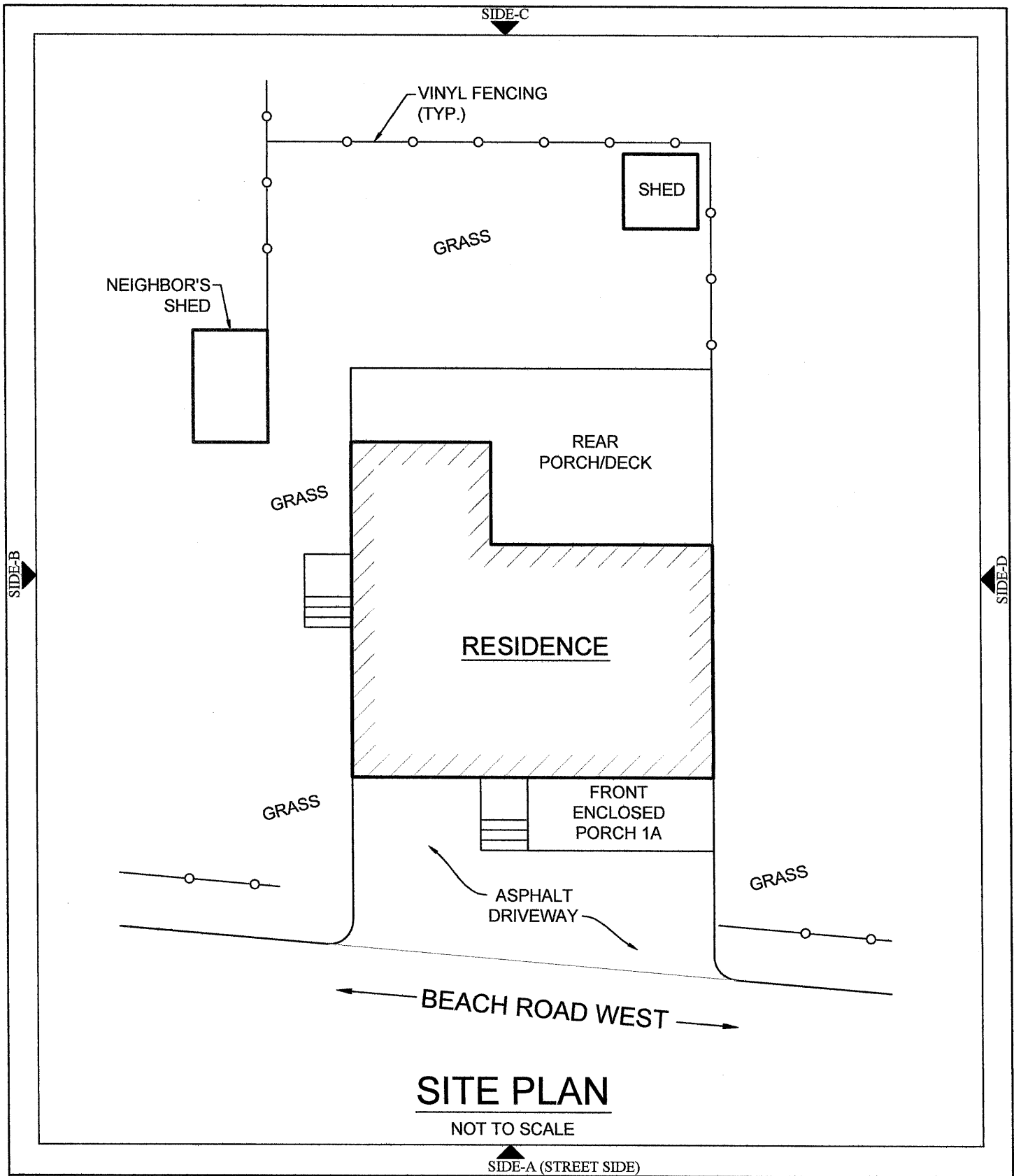


SEPTEMBER 11, 2017



**EAGLE**  
Environmental, Inc.

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



**EAGLE**  
Environmental, Inc.

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

**SHEET NO.**

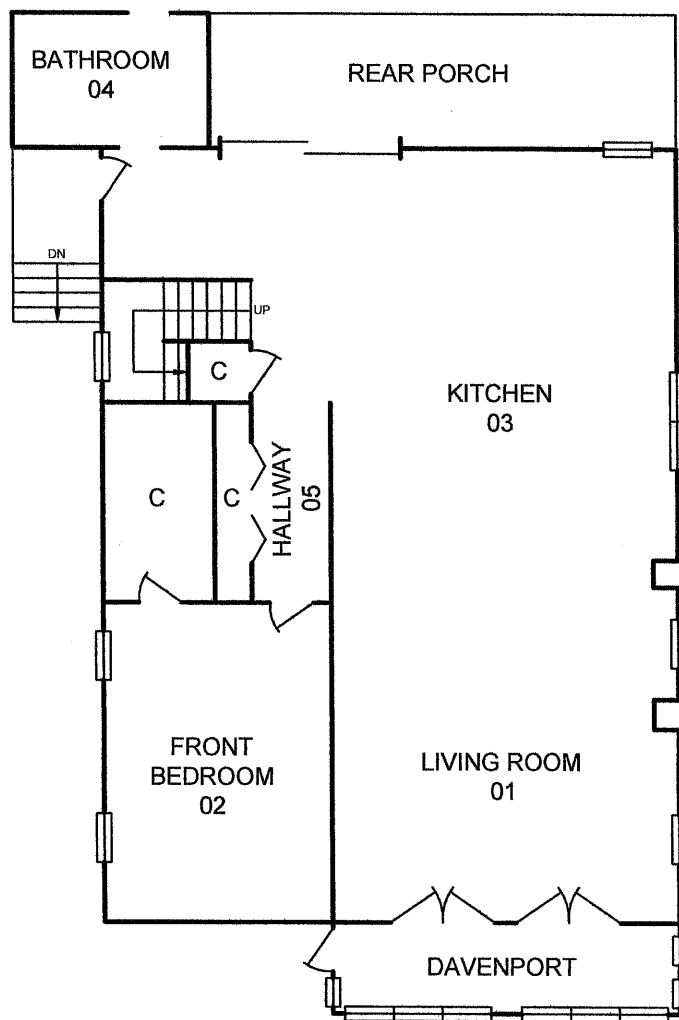
**SP-1**

SHEET 1 OF 3

DATE: 09/11/2017  
PROJECT NO.: 17-016.11T4  
DRAWN BY: BB  
REVIEWED BY: AH

**LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT**  
CAPITOL STUDIO ARCHITECTS  
6 BEACH ROAD WEST  
OLD SAYBROOK, CONNECTICUT

SIDE-C



## FIRST FLOOR PLAN

C = CLOSET EVALUATED  
WITH ADJACENT ROOM

NOT TO SCALE

SIDE-A (STREET SIDE)



**EAGLE**  
Environmental, Inc.

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

DATE: 09/11/2017  
PROJECT NO.: 17-016.11T4  
DRAWN BY: BB  
REVIEWED BY: AH

LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT  
CAPITOL STUDIO ARCHITECTS  
6 BEACH ROAD WEST  
OLD SAYBROOK, CONNECTICUT

SHEET NO.

**FP-1**

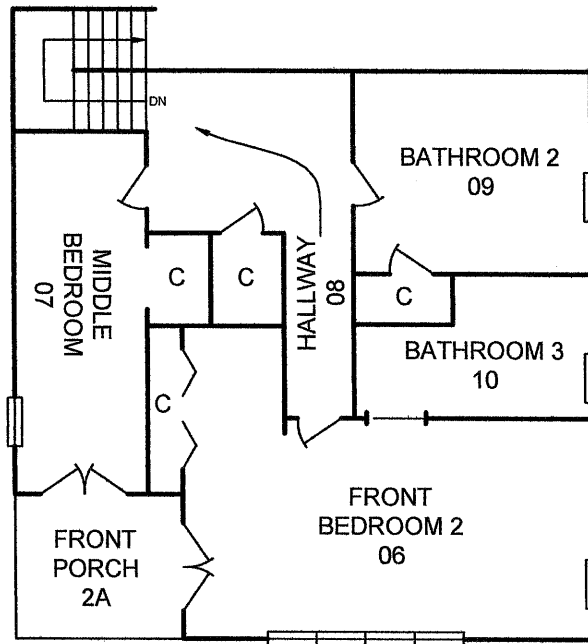
SHEET 2 OF 3



SIDE-C

SIDE-B

SIDE-D



## SECOND FLOOR PLAN

C = CLOSET EVALUATED  
WITH ADJACENT ROOM

NOT TO SCALE

SIDE-A (STREET SIDE)



**EAGLE**  
Environmental, Inc.

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

SHEET NO.

**FP-2**

SHEET 3 OF 3

DATE: 09/11/2017  
PROJECT NO.: 17-016.11T4  
DRAWN BY: BB  
REVIEWED BY: AH

LEAD-BASED PAINT INSPECTION AND RISK ASSESSMENT  
CAPITOL STUDIO ARCHITECTS  
6 BEACH ROAD WEST  
OLD SAYBROOK, CONNECTICUT

## **APPENDIX 2**

### **ASBESTOS BULK SAMPLE LABORATORY REPORTS**



EMSL ANALYTICAL, INC.

## Chain of Custody

EMSL Order Number

(Lab Use Only):

Additional Analysis Request

EMSL Order Number

☐ EMSL CT

29 N. Plains Hwy, # 4

Wallingford, CT 06492

Phone: 203-284-5948

☒ EMSL NYC

307 West 38th Street

New York, NY 10018

Phone: 212-290-0051

☐ EMSL Corporate

200 Route 130 North

Cinnaminson, NJ 08077

Phone: 800-220-3675

Eagle Environmental, Inc.	EMSL Acct # EEVM50	Project Manager: AH	Proj #: 17-016.11T4
8 South Main Street, Suite 3, Terryville, CT 06786		Project: CSA - 6 Beach Rd West - Old Saybrook - SSS	
Report To: Brandy LeBlanc Phone: 860-589-8257		US State Collected: CT CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Email All Results to: <input checked="" type="checkbox"/> bleblanc@eagleenviro.com		Samples Collected by (Name): Leith Gilden	
<input checked="" type="checkbox"/> rsioch@eagleenviro.com <input checked="" type="checkbox"/> dwynne@eagleenviro.com		Signature:	
Additional Contacts to Receive Email Results:		Date(s) Collected: 08/31/17	
<input type="checkbox"/> Verbal Results: Contact Name and Phone #:			

Turnaround Time (TAT) Options - Please Check Box Below <24 HR TAT's Call Ahead to Confirm Lab Availability.  
Not all TAT options are valid for every test (7402, PLM NOB & 400 PC w/Gravimetric Reduction, TEM NOB, Culturable Fungi)

<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input checked="" type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
---------------------------------	---------------------------------	---------------------------------------------	----------------------------------	----------------------------------	----------------------------------	---------------------------------	---------------------------------

Based on the turnaround time selected above, it is our belief that results are due on or before this Date & Time:

Asbestos	Lead (Pb) Flame Atomic Absorption	Microbiology
<b>TEM: Air</b> <input type="checkbox"/> 4 - 4.5 Hour Turnaround Time (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763, Sub E <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <b>PLM: Bulk</b> <input checked="" type="checkbox"/> 600/R-93/116 <input type="checkbox"/> PLM NOB w/Gravimetric Reduction <input type="checkbox"/> 400 Point Count <input type="checkbox"/> 400 Point Count w/Gravimetric Reduction <b>TEM: Bulk</b> <input type="checkbox"/> TEM EPA NOB <b>TEM: Dust</b> <input type="checkbox"/> ASTM Microvac <input type="checkbox"/> ASTM Wipe <input type="checkbox"/> Qualitative Other:	<input type="checkbox"/> Air: NIOSH 7082 RL: 4 µg/filter <input type="checkbox"/> Soil: SW846-7000B RL: 40 mg/kg (ppm) <b>Chips: SW846-7000B RL: 0.01%</b> <input type="checkbox"/> % by weight <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm <b>Wipe: SW846-7000B RL: 10 µg/wipe</b> <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <small>Assumed non ASTM if no box is checked</small> Other:	<b>Air Samples</b> <input type="checkbox"/> Fungi (Spore Trap) Allergenco-D Test: M032 <input type="checkbox"/> Fungi Culturable Genus Level ID Test: M005 <b>Swab, Tape Lift, Bulk Samples</b> <input type="checkbox"/> Mold & Fungi Direct Exam Test: M041 <input type="checkbox"/> Fungi Culturable Test: M007 (No Tape Lifts) Other:

## Eagle Lab Instructions/Comments:

Asbestos: Air - Do Not Analyze Outsides or Blanks Unless Authorized by Eagle Bulk - Please Stop on First Positive Within Sets

Lead:

Microbiology:

Sample #	I/O HA#	Sample Description	Sample Location	Volume (L) Area Sampled	Date/Time Sampled
08-31-LG-01	) sel	Mortar at stone fireplace	Room 001	JAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <	

Client Sample #'s	08-31-LG-01 - 33	Total # of Samples: 27
Relinquished (Client):	Date:	Time:
Received (Lab):	Date: 9/2/17	Time: 11:19 AM
Relinquished:	Date: 9/1/17	Time: PM
Received:	Date:	Time:



**EMSL ANALYTICAL, INC.**

**EMSL Order Number**

**(Lab Use Only):**

### Additional Analysis Request

**EMSL Order Number**

☐ EMSL CT

29 N. Plains Hwy, # 4

Wallingford, CT 06492

Phone: 203-284-5948

☐ EMSL NYC

307 West 38th Street

New York, NY 10018

Phone: 212-290-0051

☐ **EMSL Corporate**

200 Route 130 North

Cinnaminson, NJ 08077

Phone: 800-220-3675

[illegible]

17 SEP -2 AM 11:19

ENGL	MANHATTAN LAB
RECEIVED	

Quarantined 9/7/17 4:20 AM



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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

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

EMSL Order: 031727962

Customer ID: EEVM50

Customer PO:

Project ID:

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

**Phone:** (860) 589-8257

**Fax:** (860) 585-7034

**Received Date:** 09/02/2017 11:19 AM

**Analysis Date:** 09/03/2017

**Collected Date:** 08/31/2017

**Project:** 17-016.11T4/ AH/ CSA - 6 BEACH RD. WEST - OLD SAYBROOK - SSS

## 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
8-31-LG-01 031727962-0001	ROOM 001 - MORTAR AT STONE FIREPLACE	Gray Non-Fibrous Homogeneous		45% Quartz 5% Mica 50% Non-fibrous (Other)	None Detected
8-31-LG-02 031727962-0002	ROOM 001 - MORTAR AT STONE FIREPLACE	Gray Non-Fibrous Homogeneous		45% Quartz 20% Ca Carbonate 35% Non-fibrous (Other)	None Detected
8-31-LG-03 031727962-0003	ROOM 001 - SEALANT AT WALL/ BRICK JUNC AT FIREPLACE WALLS	Tan/White Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
8-31-LG-04 031727962-0004	ROOM 001 - SEALANT AT WALL/ BRICK JUNC AT FIREPLACE WALLS	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (Other)	None Detected
8-31-LG-05 031727962-0005	ROOM 001 - SHEETROCK	Gray Non-Fibrous Homogeneous	8% Cellulose	65% Gypsum 27% Non-fibrous (Other)	None Detected
8-31-LG-06 031727962-0006	ROOM 002 - SHEETROCK	Brown/Gray Non-Fibrous Homogeneous	10% Cellulose	65% Gypsum 25% Non-fibrous (Other)	None Detected
8-31-LG-07 031727962-0007	ROOM 001 - JOINT COMPOUND - WHITE	White Non-Fibrous Homogeneous		60% Ca Carbonate 3% Mica 37% Non-fibrous (Other)	None Detected
8-31-LG-08 031727962-0008	ROOM 002 - JOINT COMPOUND - WHITE	White Non-Fibrous Homogeneous		58% Ca Carbonate 42% Non-fibrous (Other)	None Detected
8-31-LG-09 031727962-0009	ROOM 001 - SHEETROCK/ JOINT COMPOUND COMPOSITE	Gray/White Non-Fibrous Homogeneous	4% Cellulose	35% Ca Carbonate 40% Gypsum 21% Non-fibrous (Other)	None Detected
8-31-LG-10 031727962-0010	ROOM 002 - SHEETROCK/ JOINT COMPOUND COMPOSITE	White Non-Fibrous Homogeneous	4% Cellulose	60% Ca Carbonate 36% Non-fibrous (Other)	None Detected

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

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

Initial report from: 09/03/2017 10:39:57



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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

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

EMSL Order: 031727962

Customer ID: EEVM50

Customer PO:

Project ID:

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

**Phone:** (860) 589-8257  
**Fax:** (860) 585-7034  
**Received Date:** 09/02/2017 11:19 AM  
**Analysis Date:** 09/03/2017  
**Collected Date:** 08/31/2017

**Project:** 17-016.11T4/ AH/ CSA - 6 BEACH RD. WEST - OLD SAYBROOK - SSS

## 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
8-31-LG-11 031727962-0011	ROOM 001 - TEXTURED CEILING PAINT - WHITE	White Non-Fibrous Homogeneous		55% Ca Carbonate 4% Vermiculite 6% Mica 35% Non-fibrous (Other)	None Detected
8-31-LG-12 031727962-0012	ROOM 001 - TEXTURED CEILING PAINT - WHITE	Gray/White Non-Fibrous Homogeneous	5% Cellulose	25% Ca Carbonate 20% Gypsum 5% Mica 45% Non-fibrous (Other)	None Detected
8-31-LG-13 031727962-0013	ROOM 001 - TEXTURED CEILING PAINT - WHITE	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
8-31-LG-14 031727962-0014	ROOM 003 - MUDSET ASSOC W 12X12" CERAMIC FLOOR TILE	Gray Non-Fibrous Homogeneous		35% Quartz 65% Non-fibrous (Other)	None Detected
8-31-LG-15 031727962-0015	ROOM 003 - MUDSET ASSOC W 12X12" CERAMIC FLOOR TILE	Gray Non-Fibrous Homogeneous	3% Cellulose	30% Quartz 20% Ca Carbonate 47% Non-fibrous (Other)	None Detected
8-31-LG-16 031727962-0016	ROOM 003 - GROUT ASSOC W 12X12" CERAMIC FLR TILE	Gray Non-Fibrous Homogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (Other)	None Detected
8-31-LG-17 031727962-0017	ROOM 003 - GROUT ASSOC W 12X12" CERAMIC FLR TILE	Gray Non-Fibrous Homogeneous		45% Quartz 20% Ca Carbonate 35% Non-fibrous (Other)	None Detected
8-31-LG-24 031727962-0018	EXTERIOR - TAR PAPER ON CONCRETE CYLINDERS UNDER H	Black Non-Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
8-31-LG-25 031727962-0019	EXTERIOR - TAR PAPER ON CONCRETE CYLINDERS UNDER H	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
8-31-LG-26 031727962-0020	EXTERIOR - MORTAR AT CMU FOOTINGS UNDER HOUSE	Gray/Tan Non-Fibrous Homogeneous		42% Quartz 58% Non-fibrous (Other)	None Detected

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

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

Initial report from: 09/03/2017 10:39:57





# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018

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

<http://www.EMSL.com> / [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031727962

Customer ID: EEVM50

Customer PO:

Project ID:

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

**Phone:** (860) 589-8257

**Fax:** (860) 585-7034

**Received Date:** 09/02/2017 11:19 AM

**Analysis Date:** 09/03/2017

**Collected Date:** 08/31/2017

**Project:** 17-016.11T4/ AH/ CSA - 6 BEACH RD. WEST - OLD SAYBROOK - SSS

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) 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: 09/02/2017

Sample Receipt Time: 11:19 AM

Analysis Completed Date: 09/03/2017

Analysis Completed Time: 7:03 AM

## Analyst(s):

Ghaly Hemaya PLM (13)

Tiquasha Thompson PLM (14)

## 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, MAAA000170

Initial report from: 09/03/2017 10:39:57

## **APPENDIX 3**

### **XRF LEAD-BASED PAINT INSPECTION REPORTS**

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 08/31/17 09:51

INSPECTION FOR: Jason Pitts  
Capital Studio Architects  
1379 Main Street,  
East Hartford, CT. 06108

PERFORMED AT: Single Family Residence  
6 Beach Road West,  
Old Saybrook, CT.

INSPECTION DATE: 08/31/17

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

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

OPERATOR LICENSE: 002268

Comprehensive Lead-Based Paint Inspection (Interiors and  
Exteriors)

SIGNED: Melinda M. Rohde

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

Date: 08/31/17

**SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts**

Inspection Date: 08/31/17 Single Family Residence  
Report Date: 8/31/2017 6 Beach Road West,  
Abatement Level: 1.0 Old Saybrook, CT.  
Report No. S#01364 - 08/31/17 09:51  
Total Readings: 264 Actionable: 1  
Job Started: 08/31/17 09:51  
Job Finished: 08/31/17 13:17

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Exterior Room 001 Porch 1A									
221	-	Floor	Lft		D	Wood	gray	2.2	QM

Calibration Readings

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

# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Inspection Date: 08/31/17  
 Report Date: 8/31/2017  
 Abatement Level: 1.0  
 Report No. S#01364 - 08/31/17 09:51  
 Total Readings: 264  
 Job Started: 08/31/17 09:51  
 Job Finished: 08/31/17 13:17

Single Family Residence  
 6 Beach Road West,  
 Old Saybrook, CT.

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Exterior Room 001 Porch 1A									
221	-	Floor	Lft		D	Wood	gray	2.2	QM
233	A	Header	Rgt		D	Wood	White	0.4	QM
222	A	Wall	L Rgt		D	Paneling	White	0.0	QM
230	A	Window	Rgt	Stop	D	Wood	White	0.0	QM
229	A	Window	Rgt	Sill	I	Wood	White	0.0	QM
223	B	Wall	L Lft		D	Paneling	White	-0.2	QM
231	B	Door	Rgt	Rgt casing	D	Wood	White	0.0	QM
232	B	Door	Rgt	Lft jamb	D	Wood	White	0.3	QM
227	C	Door	Lft	Stop	I	Wood	White	-0.1	QM
228	C	Door	Lft	Kickplate	D	Wood	White	-0.2	QM
226	C	Door	Lft	Rgt casing	I	Wood	White	-0.3	QM
225	C	Door	Lft	U Ctr	D	Wood	Stain	-0.2	QM
224	D	Wall	L Rgt		D	Paneling	White	-0.1	QM
Exterior Room 002 Facade B									
235	B	Electric	Rgt	Meter	I	Metal	gray	0.0	QM
234	B	Wall	L Rgt		D	Clapboard	White	0.0	QM
243	B	Door	Lft	Rgt jamb	I	Wood	White	-0.2	QM
240	B	Door	Lft	U Rgt	I	Metal	White	0.1	QM
238	B	Stairs	Lft	Landing	I	Wood	gray	0.5	QM
242	B	Stairs	Lft	Support	D	Wood	White	0.4	QM
236	B	Stairs	Lft	Treads	D	Concrete	White	0.0	QM
237	B	Stairs	Lft	Risers	I	Concrete	White	0.0	QM
241	B	Stairs	Lft	Newel post	D	Wood	White	0.4	QM
239	B	Railing	Lft	Balusters	D	Wood	White	-0.1	QM
Exterior Room 003 Facade C									
244	C	Porch	Lft	Deck	I	Composite	gray	-0.1	QM
245	C	Porch	Lft	Railing	D	Wood	gray	0.0	QM
248	C	Door	Ctr	Kickplate	D	Wood	gray	0.1	QM
250	C	Door	Ctr	Rgt casing	D	Wood	gray	0.3	QM
246	C	Stairs	Lft	Newel post	D	Wood	gray	0.1	QM
247	C	Stairs	Lft	Balusters	D	Wood	gray	0.3	QM
249	C	Stairs	Ctr	Treads	D	Wood	gray	0.2	QM
Exterior Room 005 Tool Shed									
251	A	Wall	L Ctr		D	Wood	gray	0.0	QM
255	B	Skirt board	Rgt		D	Wood	gray	0.2	QM
252	B	Wall	L Ctr		D	Wood	gray	0.0	QM
261	B	Wall	U Rgt	Trim	D	Wood	White	0.0	QM
260	B	Window	Rgt	Stop	D	Wood	White	0.0	QM

# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
258	B	Window	Rgt	Rgt casing	D	Wood	White	0.1	QM
257	B	Window	Rgt	Sash	D	Wood	White	0.1	QM
259	B	Window	Rgt	Sill	D	Wood	White	0.0	QM
256	B	Door	Lft	L Rgt	D	Wood	gray	0.0	QM
253	C	Wall	L Lft		D	Wood	gray	0.0	QM
254	D	Wall	L Rgt		D	Wood	gray	0.1	QM

## Interior Room 001 Living Rm

009	-	Floor	Ctr		D	Wood	Stain	0.0	QM
008	-	Ceiling	Ctr		D	Dry wall	White	0.3	QM
004	A	Wall	U Ctr		I	Dry wall	White	-0.1	QM
012	A	Door	Ctr	Stop	D	Wood	White	-0.1	QM
013	A	Door	Ctr	Threshold	D	Wood	Stain	-0.2	QM
011	A	Door	Ctr	Lft jamb	I	Wood	White	0.1	QM
010	A	Door	Ctr	U Rgt	D	Wood	Stain	0.0	QM
005	B	Wall	U Lft		D	Dry wall	White	0.0	QM
018	D	Radiator	Lft		I	Metal	White	0.0	QM
019	D	Fireplace	Lft		I	Brick	Black	0.0	QM
020	D	Fireplace	Lft	Mantle	I	Wood	Black	-0.2	QM
006	D	Wall	U Rgt		D	Dry wall	White	-0.2	QM
021	D	Baseboard	Lft		I	Wood	White	0.1	QM
015	D	Window	Rgt	Rgt casing	I	Wood	White	-0.2	QM
014	D	Window	Rgt	Sash	I	Wood	White	-0.1	QM
017	D	Window	Rgt	Apron	I	Wood	White	0.3	QM
016	D	Window	Rgt	Sill	I	Wood	White	0.1	QM
007	D	Column	Ctr		D	Dry wall	White	0.1	QM

Comment:

Vinyl /Wood Replacement Windows not tested.

## Interior Room 002 Frnt. Bd1.

049	-	Floor	Lft		I	Wood	Stain	0.0	QM
048	-	Ceiling	Lft		I	Dry wall	White	0.1	QM
058	A	Radiator	Rgt		I	Metal	White	0.3	QM
044	A	Wall	U Rgt		D	Dry wall	White	0.1	QM
055	A	Window	Rgt	Rgt casing	I	Wood	White	0.3	QM
054	A	Window	Rgt	Sash	D	Wood	White	0.1	QM
057	A	Window	Rgt	Apron	I	Wood	White	0.2	QM
056	A	Window	Rgt	Sill	I	Wood	White	0.0	QM
045	B	Wall	U Lft		D	Dry wall	White	0.1	QM
046	C	Wall	U Ctr		I	Dry wall	White	-0.1	QM
053	C	Door	Rgt	Stop	I	Wood	White	0.2	QM
051	C	Door	Rgt	Lft casing	I	Wood	White	-0.1	QM
052	C	Door	Rgt	Lft jamb	I	Wood	White	0.1	QM
050	C	Door	Rgt	U Rgt	I	Wood	White	0.0	QM
062	C	Closet	Lft	Door stop	I	Wood	White	-0.3	QM
069	C	Closet	Lft	Pole	I	Wood	Stain	0.2	QM
059	C	Closet	Lft	Door	I	Wood	White	0.1	QM
060	C	Closet	Lft	Door Casing	I	Wood	White	0.2	QM
066	C	Closet	Lft	Door Casing	I	Wood	White	0.0	QM



# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior									
061	C	Closet	Lft	Door Jamb	I	Wood	White	0.0	QM
063	C	Closet	Lft	Wall	I	Wood	White	0.2	QM
Wall B									
064	C	Closet	Lft	Wall	I	Wood	White	0.2	QM
Wall C									
067	C	Closet	Lft	Shelf Sup.	I	Wood	White	0.3	QM
068	C	Closet	Lft	Shelf	I	Wood	White	0.2	QM
065	C	Closet	Lft	Ceiling	I	Wood	White	0.1	QM
047	D	Wall	U Lft		I	Dry wall	White	0.0	QM
070	D	Baseboard	Lft		I	Wood	White	0.1	QM

Comment:

Vinyl/Wood Replacement windows not tested.

## Interior Room 003 Kitchen

031	-	Box Beam	Rgt		I	Wood	White	0.2	QM
032	A	Baseboard	Rgt		I	Wood	White	0.0	QM
039	A	Stairs	Rgt	Treads	I	Wood	Stain	0.3	QM
022	B	Wall	U Rgt		D	Dry wall	White	0.1	QM
040	B	Stairs	Rgt	Risers	I	Wood	Stain	0.3	QM
036	C	Cabinet	Lft		D	Wood	Stain	0.2	QM
037	C	Cabinet	Lft	Door	D	Wood	Stain	0.0	QM
038	C	Cabinet	Lft	Shelving	I	Wood	Stain	0.1	QM
023	C	Wall	U Rgt		D	Dry wall	White	-0.1	QM
035	C	Window	Rgt	Stop	I	Wood	White	0.0	QM
033	C	Window	Rgt	Rgt casing	I	Wood	White	0.0	QM
034	C	Window	Rgt	Sill	D	Wood	White	-0.1	QM
030	C	Door	Rgt	Lft casing	I	Wood	White	-0.1	QM
029	C	Door	Rgt	L Lft	I	Metal	White	-0.1	QM
041	C	Stairs	Rgt	Stringers	I	Wood	Stain	0.0	QM
042	C	Stairs	Rgt	Railing	I	Wood	Stain	0.2	QM
043	C	Stairs	Rgt	Balusters	I	Wood	Stain	-0.1	QM
024	D	Wall	U Lft		D	Dry wall	White	0.1	QM
028	D	Door	Rgt	Stop	I	Wood	White	0.0	QM
026	D	Door	Rgt	Rgt casing	I	Wood	White	0.1	QM
027	D	Door	Rgt	Lft jamb	I	Wood	White	-0.1	QM
025	D	Door	Rgt	U Rgt	I	Metal	White	0.0	QM

Comment:

Ceiling inaccessible. Vinyl/Wood Replacement windows and ceramic floor not tested.

## Interior Room 004 Bathroom

075	-	Ceiling	Ctr		D	Dry wall	White	0.0	QM
071	A	Wall	U Rgt		D	Dry wall	White	-0.1	QM
078	A	Door	Ctr	Stop	I	Wood	White	0.1	QM
077	A	Door	Ctr	Lft casing	I	Wood	White	-0.1	QM
076	A	Door	Ctr	U Rgt	I	Wood	Stain	-0.1	QM
072	B	Wall	U Ctr		D	Dry wall	White	0.0	QM
073	C	Wall	U Ctr		D	Dry wall	White	-0.1	QM

# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
079	C	Window	Rgt	Sash	I	Wood	White	0.2	QM
082	C	Window	Rgt	Apron	I	Wood	White	0.0	QM
081	C	Window	Rgt	Sill	I	Wood	White	0.1	QM
080	C	Window	Rgt	Lft casing	I	Wood	White	0.1	QM
083	D	Radiator	Lft		I	Metal	White	0.2	QM
074	D	Wall	U Ctr		D	Dry wall	White	0.0	QM

Comment:

Vinyl/Wood Replacement windows and ceramic tiled floor not tested.

## Interior Room 005 Hallway

088	-	Floor	Rgt		I	Wood	Stain	0.0	QM
087	-	Ceiling	Rgt		D	Dry wall	White	0.0	QM
084	A	Wall	U Ctr		I	Dry wall	White	0.3	QM
090	A	Door	Rgt	Lft casing	I	Wood	White	0.0	QM
091	A	Door	Rgt	Lft jamb	I	Wood	White	0.1	QM
089	A	Door	Rgt	L Rgt	I	Wood	White	0.0	QM
085	B	Wall	U Ctr		I	Dry wall	White	0.0	QM
095	B	Closet	Lft	Door stop	I	Wood	White	-0.2	QM
092	B	Closet	Lft	Door	I	Wood	White	0.4	QM
093	B	Closet	Lft	Door Casing	I	Wood	White	-0.4	QM
099	B	Closet	Lft	Door Casing	I	Dry wall	White	0.0	QM
Interior									
094	B	Closet	Lft	Door Jamb	I	Wood	White	-0.1	QM
096	B	Closet	Lft	Wall	I	Dry wall	White	0.0	QM
Wall A									
097	B	Closet	Lft	Wall	I	Dry wall	White	0.1	QM
Wall B									
098	B	Closet	Lft	Ceiling	I	Dry wall	White	0.0	QM
104	B	Closet	Rgt	Door stop	I	Wood	White	0.1	QM
101	B	Closet	Rgt	Door	I	Wood	White	0.2	QM
102	B	Closet	Rgt	Door Casing	I	Wood	White	0.0	QM
103	B	Closet	Rgt	Door Jamb	I	Wood	White	0.0	QM
086	D	Wall	U Rgt		D	Dry wall	White	-0.1	QM
100	D	Baseboard	Rgt		I	Wood	White	0.1	QM

## Interior Room 006 Frnt. Bdr2.

110	-	Floor	Lft		D	Wood	Stain	-0.1	QM
109	-	Ceiling	Lft		D	Dry wall	White	0.3	QM
105	A	Wall	U Rgt		D	Dry wall	White	-0.2	QM
122	A	Window	Ctr	Stop	I	Wood	White	0.1	QM
121	A	Window	Ctr	Apron	I	Wood	White	-0.1	QM
120	A	Window	Ctr	Sill	I	Wood	White	0.0	QM
119	A	Window	Ctr	Lft casing	I	Wood	White	0.1	QM
Upper-Decorative									
106	B	Wall	U Ctr		D	Dry wall	White	0.0	QM
126	B	Door	Lft	Stop	D	Wood	White	0.0	QM
125	B	Door	Lft	Rgt jamb	I	Wood	White	0.3	QM
124	B	Door	Lft	Lft casing	I	Wood	White	-0.1	QM

# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
123	B	Door	Lft	U Rgt	I	Wood	White	-0.1	QM
127	B	Closet	Rgt	Door Casing	I	Wood	White	-0.1	QM
128	B	Closet	Rgt	Door Jamb	I	Wood	White	0.1	QM
129	B	Closet	Rgt	Wall	I	Dry wall	White	0.0	QM
		Wall C							
130	B	Closet	Rgt	Wall	I	Dry wall	White	-0.1	QM
		Wall B							
107	C	Wall	U Ctr		I	Dry wall	White	-0.1	QM
131	C	Baseboard	Rgt		I	Wood	White	-0.1	QM
114	C	Door	Lft	Stop	I	Wood	White	-0.1	QM
112	C	Door	Lft	Rgt casing	I	Wood	White	0.3	QM
113	C	Door	Lft	Lft jamb	I	Wood	White	-0.1	QM
111	C	Door	Lft	L Rgt	I	Wood	White	-0.1	QM
108	D	Wall	U Lft		D	Dry wall	White	-0.1	QM
116	D	Window	Rgt	Rgt casing	I	Wood	White	-0.1	QM
115	D	Window	Rgt	Sash	I	Wood	White	0.0	QM
118	D	Window	Rgt	Apron	I	Wood	White	-0.2	QM
117	D	Window	Rgt	Sill	I	Wood	White	0.0	QM

Comment:

Vinyl/Wood Replacement windows not tested.

## Interior Room 007 Middle Bed

137	-	Floor	Ctr		D	Wood	Stain	-0.2	QM
136	-	Ceiling	Ctr		I	Dry wall	White	0.1	QM
132	A	Wall	U Rgt		I	Dry wall	White	-0.1	QM
157	A	Door	Ctr	Stop	D	Wood	White	-0.2	QM
156	A	Door	Ctr	Rgt jamb	I	Wood	White	0.1	QM
155	A	Door	Ctr	Rgt casing	I	Wood	White	-0.1	QM
154	A	Door	Ctr	U Rgt	I	Wood	White	-0.1	QM
153	B	Radiator	Lft		I	Metal	White	0.0	QM
133	B	Wall	U Ctr		I	Dry wall	White	-0.1	QM
152	B	Baseboard	Lft		I	Wood	White	0.3	QM
143	B	Window	Lft	Rgt casing	I	Wood	White	0.4	QM
142	B	Window	Lft	Sash	I	Wood	White	0.2	QM
145	B	Window	Lft	Apron	I	Wood	White	0.1	QM
144	B	Window	Lft	Sill	D	Wood	White	-0.1	QM
134	C	Wall	U Ctr		D	Dry wall	White	-0.2	QM
135	D	Wall	U Ctr		D	Dry wall	White	-0.1	QM
141	D	Door	Lft	Stop	I	Wood	White	0.0	QM
139	D	Door	Lft	Rgt casing	I	Wood	White	-0.1	QM
140	D	Door	Lft	Lft jamb	I	Wood	White	0.2	QM
138	D	Door	Lft	U Lft	I	Wood	White	0.1	QM
146	D	Closet	Lft	Door	I	Wood	White	0.0	QM
147	D	Closet	Lft	Door Jamb	I	Wood	White	0.0	QM
148	D	Closet	Lft	Wall	I	Dry wall	White	0.0	QM
		Wall D							
149	D	Closet	Lft	Wall	I	Dry wall	White	0.2	QM
		Wall C							
150	D	Closet	Lft	Shelf Sup.	I	Wood	White	0.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
151	D	Closet	Lft	Shelf	I	Wood	White	0.0	QM
Comment: Vinyl/Wood Replacement windows not tested.									
Interior Room 008 Hall 2									
167	-	Attic	Lft	Door	D	Wood	White	0.1	QM
168	-	Attic	Lft	Casing	I	Wood	White	0.4	QM
162	-	Floor	Rgt		D	Wood	Stain	-0.1	QM
161	-	Ceiling	Rgt		I	Dry wall	White	0.0	QM
158	A	Wall	U Ctr		D	Dry wall	White	0.1	QM
177	A	Baseboard	Rgt		I	Wood	White	0.1	QM
172	A	Closet	Rgt	Door stop	I	Wood	White	0.1	QM
169	A	Closet	Rgt	Door	I	Wood	White	0.1	QM
170	A	Closet	Rgt	Door Casing	I	Wood	White	0.2	QM
171	A	Closet	Rgt	Door Jamb	I	Wood	White	-0.1	QM
173	A	Closet	Rgt	Wall	I	Dry wall	White	0.1	QM
Wall D									
174	A	Closet	Rgt	Wall	I	Dry wall	White	0.0	QM
Wall B									
176	A	Closet	Rgt	Shelf Sup.	I	Wood	White	0.1	QM
175	A	Closet	Rgt	Shelf	I	Wood	White	0.0	QM
159	B	Wall	U Lft		I	Dry wall	White	0.3	QM
160	D	Wall	U Rgt		I	Dry wall	White	0.1	QM
166	D	Door	Lft	Stop	I	Wood	White	0.1	QM
165	D	Door	Lft	Rgt jamb	I	Wood	White	0.0	QM
164	D	Door	Lft	Rgt casing	I	Wood	White	-0.1	QM
163	D	Door	Lft	U Rgt	I	Wood	White	0.1	QM
Interior Room 009 Bath 2									
182	-	Ceiling	Ctr		I	Dry wall	White	0.1	QM
192	A	Radiator	Lft		I	Metal	White	0.6	QM
178	A	Wall	U Ctr		I	Dry wall	White	0.0	QM
198	A	Closet	Rgt	Door stop	I	Wood	White	-0.1	QM
203	A	Closet	Rgt	Baseboard	I	Wood	White	0.0	QM
195	A	Closet	Rgt	Door	I	Wood	White	0.0	QM
196	A	Closet	Rgt	Door Casing	I	Wood	White	0.1	QM
197	A	Closet	Rgt	Door Jamb	I	Wood	White	-0.1	QM
199	A	Closet	Rgt	Wall	I	Dry wall	White	0.0	QM
Wall A									
200	A	Closet	Rgt	Wall	I	Dry wall	White	0.0	QM
Wall B									
202	A	Closet	Rgt	Shelf Sup.	I	Wood	White	-0.1	QM
201	A	Closet	Rgt	Shelf	I	Wood	White	-0.1	QM
179	B	Wall	U Ctr		I	Dry wall	White	-0.1	QM
186	B	Door	Ctr	Stop	I	Wood	White	0.2	QM
185	B	Door	Ctr	Rgt jamb	I	Wood	White	0.0	QM
184	B	Door	Ctr	Lft casing	I	Wood	White	0.0	QM
183	B	Door	Ctr	U Rgt	I	Wood	White	0.0	QM
193	C	Cabinet	Rgt		I	Fiberboard	White	0.1	QM

# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Jason Pitts

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
194	C	Cabinet	Rgt	Door	I	Fiberboard	White	-0.1	QM
204	C	Wall	H Ctr		D	Dry wall	White	0.0	QM
180	C	Wall	U Ctr		I	Dry wall	White	-0.1	QM
181	D	Wall	U Ctr		I	Dry wall	White	0.0	QM
191	D	Baseboard	Ctr		I	Wood	White	0.0	QM
188	D	Window	Rgt	Rgt casing	I	Wood	White	0.0	QM
187	D	Window	Rgt	Sash	D	Wood	White	0.1	QM
190	D	Window	Rgt	Apron	I	Wood	White	-0.1	QM
189	D	Window	Rgt	Sill	D	Wood	White	0.0	QM

Comment:

Vinyl/Wood Replacement windows and ceramic tiled floor not tested.

## Interior Room 010 Bathroom 3

209	-	Ceiling	Ctr		I	Dry wall	White	-0.2	QM
205	A	Wall	U Ctr		I	Dry wall	White	0.0	QM
217	A	Baseboard	Lft		D	Wood	White	-0.1	QM
212	A	Door	Ctr	Rgt jamb	I	Wood	White	0.0	QM
211	A	Door	Ctr	Lft casing	I	Wood	White	0.1	QM
210	A	Door	Ctr	U Rgt	I	Wood	White	0.1	QM
Pocket									
206	B	Wall	U Rgt		D	Dry wall	White	-0.3	QM
219	C	Cabinet	Ctr		D	Fiberboard	White	0.5	QM
220	C	Cabinet	Ctr	Door	I	Fiberboard	White	0.0	QM
207	C	Wall	U Ctr		I	Dry wall	White	0.3	QM
218	D	Radiator	Rgt		D	Metal	White	-0.1	QM
208	D	Wall	U Ctr		I	Dry wall	White	0.1	QM
214	D	Window	Rgt	Rgt casing	I	Wood	White	0.0	QM
213	D	Window	Rgt	Sash	I	Wood	White	-0.1	QM
216	D	Window	Rgt	Apron	I	Wood	White	0.1	QM
215	D	Window	Rgt	Sill	I	Wood	White	-0.3	QM

Comment:

Vinyl/Wood Replacement windows and ceramic tiled floor not tested.

## Calibration Readings

001	1.2	TC
002	0.9	TC
003	1.0	TC
262	1.0	TC
263	1.1	TC
264	1.1	TC

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

**APPENDIX 4**

**DUST SAMPLE LABORATORY REPORTS**

Phone: 800-220-3675

Page 1 of 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](mailto:manhattanlab@emsl.com)

EMSL Order: 031727951

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: 09/02/17 11:18 AM  
Collected: 8/31/2017

Project: 17-017.11T4 / AARON HATCHER / 595-6 BEACH RD / WEST OLD SAYBROOK, CT - LIRA

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
8/31/17-MMR-01 Site: KITCHEN Desc: FLOOR	031727951-0001	8/31/2017	9/3/2017	288 in <sup>2</sup>	<5.0 µg/ft <sup>2</sup>
8/31/17-MMR-02 Site: KITCHEN Desc: WINDOW SILL	031727951-0002	8/31/2017	9/3/2017	78 in <sup>2</sup>	<18 µg/ft <sup>2</sup>
8/31/17-MMR-03 Site: LIVING ROOM Desc: FLOOR	031727951-0003	8/31/2017	9/3/2017	288 in <sup>2</sup>	<5.0 µg/ft <sup>2</sup>
8/31/17-MMR-04 Site: LIVING ROOM Desc: WINDOW SILL	031727951-0004	8/31/2017	9/3/2017	63 in <sup>2</sup>	<23 µg/ft <sup>2</sup>
8/31/17-MMR-05 Site: BEDROOM 1 FRONT Desc: FLOOR	031727951-0005	8/31/2017	9/3/2017	288 in <sup>2</sup>	<5.0 µg/ft <sup>2</sup>
8/31/17-MMR-06 Site: BEDROOM 1 FRONT Desc: WINDOW SILL	031727951-0006	8/31/2017	9/3/2017	465 in <sup>2</sup>	<3.1 µg/ft <sup>2</sup>
8/31/17-MMR-07 Site: BEDROOM 2 FRONT Desc: FLOOR	031727951-0007	8/31/2017	9/3/2017	288 in <sup>2</sup>	<5.0 µg/ft <sup>2</sup>
8/31/17-MMR-08 Site: BEDROOM 2 FRONT Desc: WINDOW SILL	031727951-0008	8/31/2017	9/3/2017	56 in <sup>2</sup>	<26 µg/ft <sup>2</sup>
8/31/17-MMR-09 Site: BLANK	031727951-0009	8/31/2017	9/3/2017	n/a	<10 µg/wipe
8/31/17-MMR-10 Site: BLANK	031727951-0010	8/31/2017	9/3/2017	n/a	<10 µg/wipe

Miron Apfeldorfer, Laboratory Manager  
or other approved signatory

Reporting limit is 10 µg/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 Acc. #102581, NYS ELAP 11506

Initial report from 09/05/2017 08:14:55

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

## **RADON TESTING REPORTS**

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

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



**EAGLE**  
Environmental, Inc.

**MOLD OBSERVATION FORM**

Eagle Project No: 17-016-11T4 Date: 8-31-17 Inspector: LC

Facility Address: 6 Beach Rd. West, Old Saybrook

Location	Observation	Sample Number
1st fl. Bath.	Small (4-6") area of mold at wall/ceiling junction. Black.	-
2nd fl. Bath, Sited	Possible small (1") area of mold at window sill/casing. Both sides (21" each).	-
2nd fl. Bath, Master	None detected	-
Rear Deck	Mold visible all over composite Deck surface.	-



**EAGLE**  
Environmental, Inc.

**MOLD MOISTURE READING FORM**

Eagle Project No: 17-016.11TY Date: 8-31-17 Inspector: LC

Facility Address: 6 Beach Rd. West, Old Saybrook

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
1st fl. Bath	Bathtub/Shower	SR	43.0% , 81.5°F , 0.2	Yes	Yes	No
2nd fl. Bath	Window	Wood	44.4% , 78.1°F , 7.9	Yes-	Yes-	No-
Exterior Deck	Composite/Wood → (Deck)	Wood	46.1% , 77.5°F , 5.1	Yes-	Yes-	No-

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

## **APPENDIX 7**

### **ABATEMENT AND CONSULTING COST ESTIMATE**

**HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES**

**APPLICATION NO.2157**

**6 BEACH ROAD, WEST**

**OLD SAYBROOK, CONNECTICUT**

**LEAD-BASED PAINT ABATEMENT COST ESTIMATE**

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
PORCH FLOOR REMOVAL	1	\$ 2,600.00 EA	\$ 2,600.00
SUBTOTAL			\$ 2,600.00
ASBESTOS ABATEMENT CONTINGENCY			\$ 260.00
ASBESTOS TOTAL			\$ 2,860.00

**MICROBIAL CONTAMINATION REMEDIATION COST ESTIMATE**

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
MICROBIAL REMEDIATION CONTINGENCY	1	\$ 1,200.00 EACH	\$ 1,200.00
SUBTOTAL			\$ 1,200.00
MICROBIAL REMEDITION CONTINGENCY			\$ 120.00
MICROBIAL REMEDIATION TOTAL			\$ 1,320.00

**HAZARDOUS MATERIALS ABATEMENT SUBTOTAL** \$ 4,180.00

**HAZARDOUS MATERIALS CONSULTING COST ESTIMATE**

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
HAZARDOUS MATERIALS CONSULTING CONTIN.	1	\$1,200.00 EACH	\$ 1,200.00
SUBTOTAL			\$ 1,200.00
CONSULTING CONTINGENCY			\$ 120.00
CONSULTING TOTAL			\$ 1,320.00

**GRAND TOTAL** \$ 5,500.00



**APPENDIX 8**

**EAGLE ENVIRONMENTAL, INC. LICENSES**

**AND LABORATORY CERTIFICATES**

CERT#: A-509-578

CHEMSCOPE TRAINING DIVISION  
ASBESTOS INSPECTOR REFRESHER  
4 HOUR TRAINING CERTIFICATE

Leith Gilden

8 South Main Street, Suite 3, Terryville CT

Has attended a 4 hour course annual refresher course on the subject discipline on  
12/9/2016 and has passed a written examination.

"The person receiving this certificate has completed the requisite training for asbestos accreditation as an inspector under TSCA Title II"


Course topics include a review and update on asbestos health hazards, functions of inspectors and management planners, building systems, planning, inspecting for asbestos, sampling and analysis, respiratory protection, government regulations and preparing the inspection report.

This training course has been accredited by the State of Connecticut.

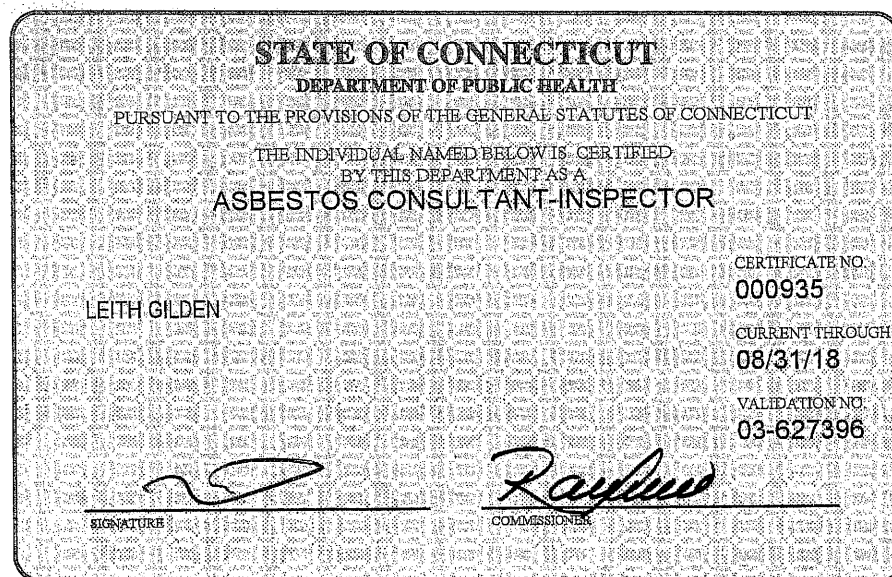
**Examination Score: 90%**

**Exam Date: 12/9/2016**

**Expiration Date: 12/9/2017**

  
\_\_\_\_\_  
Ronald D. Arena  
Training Manager

Chem Scope, Inc.  
15 Moulthrop Street  
North Haven CT 06473  
Phone: 203.865.5605  
[www.chem-scope.com](http://www.chem-scope.com)



# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**Melinda M. Rohde**

*40 Valley Field Road South, Sandy Hook, CT 06482*

*has successfully completed the*  
**EPA Model Lead Risk Assessor Refresher Training**  
**745.225 (c) (8) (i)**

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



*Edward Kolodziej*

Principal Instructor: Edward Kolodziej

January 13, 2017

Date of Course

January 13, 2017

Exam Date

*Gregory Marsch*

Regional Training Director: Gregory Marsch

ELIRAR-693

Certificate Number

Name

Name
MELINDA M ROHDE

License Information  
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Lead Inspector Risk Assessor	2268	02/28/2017	05/26/2016	MELINDA M ROHDE	ACTIVE	None

CERT#: L-700-312

CHEMSCOPE TRAINING DIVISION  
LEAD PLANNER DESIGNER REFRESHER  
8 HOUR TRAINING CERTIFICATE

Aaron Hatcher

8 South Main Street, Suite 3, Terryville CT


Has attended an 8 hour course on the subject discipline in English on  
2/23/2017 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.

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.

Examination Score: 94%  
Exam Date: 2/23/2017  
Expiration Date: 2/23/2018

  
Ronald D. Arena  
Training Manager

Chem Scope, Inc.  
15 Moulthrop Street  
North Haven CT 06473  
Phone: 203.865.5605  
[www.chem-scope.com](http://www.chem-scope.com)

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

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

AARON HATCHER

CERTIFICATE NO.  
002157

CURRENT THROUGH  
05/31/18

VALIDATION NO.  
03-601303

  
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 38<sup>th</sup> Street IN New York, NY 10018  
AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.  
James Hall - Director

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

#### DRINKING WATER

Examination For:  
Asbestos (TEM)

#### BUILDING MATERIALS

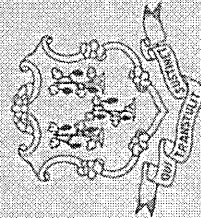
Examination For:  
Asbestos Fibers (PCM, TEM)  
Bulk Identification (PLM, TEM)

#### ENVIRONMENTAL HEALTH & HOUSING

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

#### SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2018 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 29<sup>th</sup> DAY OF September 2016



Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS, MPH  
CHIEF, ENVIRONMENTAL HEALTH SECTION

## Attachment I

### 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: 6 Beach Road West Old Saybrook, 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

10/23/2018  
Date

HERMIA DELAIRE  
Name of Applicant (print or type)

CD BG-DR  
Program Manager  
Title

  
Signature of Professional Engineer

October 23, 2018  
Date

Suzanne P. Choate  
Name of Professional Engineer (print or type)

18352  
P.E. Number

Affix P.E. Stamp Here

