

Figure E-10 Statutory Checklist

**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 No. DOH #1060 – 7 Caroline Street, Milford**

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"/>	Property is located outside proposed historical district – see attached SHPO letter
2. Floodplain Management [58.5(b)] [Ex Or 11988] [24 CFR 55]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flood Zone AE-Flood Management Permit will be required from the CTDEEP – See attached application – See attached FEMA FIRMette Panel No. 0900C0529J dated July 8, 2013.
3. Wetland Protection [58.5 (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is not located in or near any identified wetlands, see attached USFWS Inventory map, however local ILWL review may be necessary and SESC plan implemented and maintained during construction.
4. Coastal Zone Management [58.5(c)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Parcel is shown within the Coastal Area Management Zone on the Milford Zoning Map therefore State & Municipal Coastal Site Plan Review(s) Required
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No aquifers were identified in the area of the site on the CTDEEP GIS, See attached map
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is located with a NDDB area however it is not waterfront property on a sandy beach. USFWS reports no endangered species in the project area.
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"/>	Per the CT DEEP there are no Wild and Scenic Rivers in the Town of Milford

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Although asbestos has been found at the site, an EA nor an EIS is required. Any air quality impacts should be short term and localized.
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"/>	Site has already been developed and no additional clearing is required for the rehabilitation
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"/>	There will be no change in density or change of use. See attached letter from Milford Fire Department
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"/>	Not applicable per CPD-13-03 The site will be substantially restored to condition prior to the disaster
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"/>	Site is located outside the Sikorsky Airport clear zone and the airport is not typically used as a military airfield.
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"/>	This site is not located on an EPA Superfund National Priorities or CERCLA list or CT equivalent; there are no known non-residential underground fuel oil tanks; it is not known or suspected to be contaminated with toxic chemical or radioactive materials; the site is located within 3000 feet of a capped solid waste landfill which existed prior to the disaster. The site will be substantially restored to condition prior to the disaster which will include public water service
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is NOT located within a predominately minority or low income neighborhood
<b>Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns</b>							
12 A. Flood Insurance [58.6(a) & (b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Policy attached per federal regulations and program guidelines. Howowners are required to maintain flood insurance for five years as a prerequisite for assistance.
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 only Coastal Barrier Zone in Miford is located at Nells Island and Duck Island in the southwest section of the town per FIRM Panels 09009C0528J and 09009C0536J both with effective date 7/8/2013. Also see attached map of the John Chaffe Coastal Barrier Resource System
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 property is not for sale and Airport Clear Zone for Sikorsky Airport and Tweed New Haven do not cross municipal boundaries

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.
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"/>	<b>Solid waste impact is expected to be minimal as the scope of the project is limited to pre-storm building footprint.</b>
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"/>	<b>Project will not impact any water bodies</b>
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>A survey of the site performed by Loureiro Engineering Associates identified lead-based paints in various areas and provides recommendations for removal. See attached report.</b>
13 D. Asbestos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>A survey of the site performed by Loureiro Engineering Associates identified asbestos and provides recommendations for removal. See attached report.</b>
13 E. Radon [50.3 (i) 1]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>It is not anticipated that radon will be found given the nature of the geology of the area, however, radon testing will be preformed upon completion of enclosed ground level space (if applicable). Appropriate mitigation measures will be recommended as necessary.</b>				
13 F. Mold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>A survey of the site performed by Loureiro Engineering Associates identified mold at the site and provides recommendations for remediation. See attached report.</b>
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Certification will be required CTDEEP Transmittal and Application Attached</b>
14 B. Structures, Dredging & Fill Act [CGS 22a-359 to 22a-363f]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Activities seaward the the Coastal Jurisdiction Line may require authorization from CTDEEP OLISP</b>
14 C. Tidal Wetlands Act [CGS 22a-28 to 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>No tidal wetlands have been identified.</b>
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Property is not located within regulated wetlands, however, local review and/or sign-off may be required.</b>
14 E. Various municipal zoning approvals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Application for Site Plan Review approval and/or Special Exception is required for Zoning Permit. Adiminstrative Signoff possible. If no approval is granted, application to Zoning Board of Appeals may be necessary</b>

**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 litigation. 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:



10/14/2014

\_\_\_\_\_  
Name: Edward G. Shelomis, P.E., Vice President

\_\_\_\_\_  
Date

Responsible Entity or designee Signature:

\_\_\_\_\_  
Hermia Delaire, CDBG-DR Program Manager

\_\_\_\_\_  
Date



Department of Economic and  
Community Development

Connecticut  
still revolutionary

1060 SM

April 21, 2013

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

received  
4-23-14

Subject: CDBG-DR Review  
Proposed Rehabilitation of  
7 Caroline Street, Milford, CT

Dear Ms. Delaire:

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

Based on the information provided, the property is not a contributing resource to the proposed East Broadway National Register District. Therefore, the proposed action results in *no historic properties affected*.

For further information please contact me, at (860) 256-2766 or [stacey.vairo@ct.gov](mailto:stacey.vairo@ct.gov).

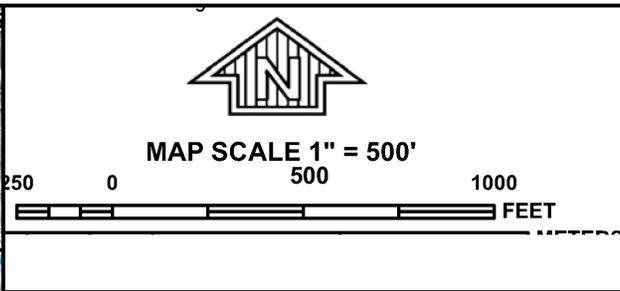
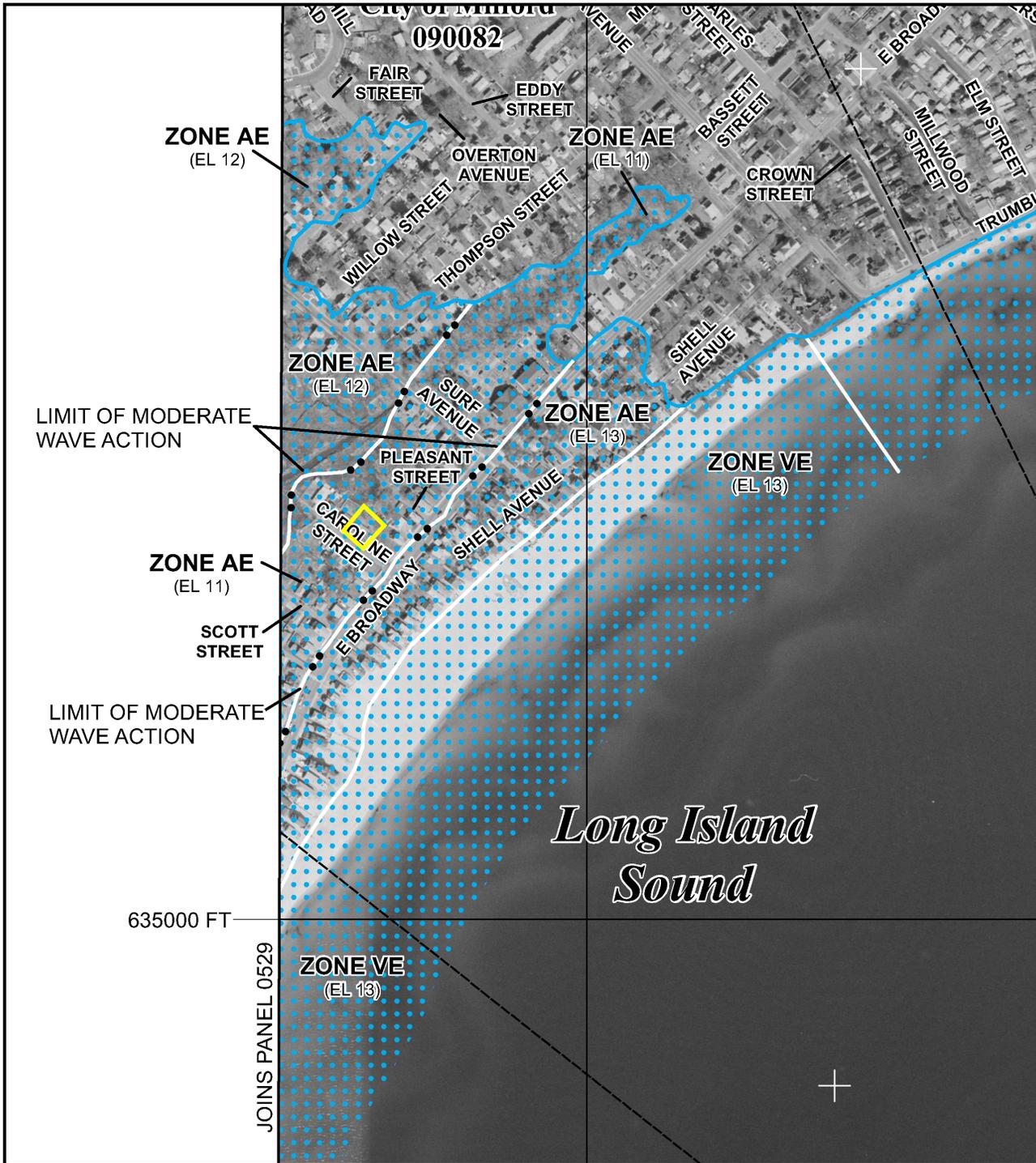
Sincerely,

Stacey Vairo  
Deputy State Historic Preservation Officer

State Historic Preservation Office

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

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



NATIONAL FLOOD INSURANCE PROGRAM  
 FEMA

PANEL 0533J

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**NEW HAVEN COUNTY,**  
**CONNECTICUT**  
 (ALL JURISDICTIONS)

**PANEL 533 OF 635**  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0533	J

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**  
**09009C0533J**  
**MAP REVISED**  
**JULY 8, 2013**

Federal Emergency Management Agency

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



**Zone AE**  
(EL 13 Feet)

**Zone AE**  
(EL 12 Feet)

**Zone AE**  
(EL 11 Feet)

**Zone AE**  
(EL 13 Feet)

**Zone VE**  
(EL 13 Feet)

**REFERENCE LAYERS**

- NFHL Data Available
- FIRM Panel Boundary
- LOMR Boundary

**SPECIAL FLOOD HAZARD AREAS**

- 1% Annual Chance Flood Hazard (Zone A, AE, AH, AO, AR, AS, AV)
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

- 0.2% Annual (Chance) Flood Hazard (Zone X)
- Future Conditions 1% Annual Chance Flood Hazard (Zone X)
- Area with Reduced Flood Risk due to Levee (Zone X)
- Areas Outside the 0.2% Annual Chance Floodplain (Zone X)
- Areas of Undetermined Flood Hazard (Zone D)
- NO SCREEN

**CROSS SECTIONS & BFES**

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Profile Baseline
- Base Flood Elevation

**SUPPORTING INFORMATION**

- Limit of Study
- Jurisdictional Boundary

Seaside Ave

E Broadway

Stella Ave

Warders Walk

Thompson St

Overton Ave

Surf Ave

Pleasant St

Caroline St

Scott St

Maddox Ave

473 ft

Caroline St, Milford, CT 06460, USA

© 2013 Google



U.S. Fish and Wildlife Service  
**National Wetlands Inventory**

7 Caroline Street,  
Milford CT

May 6, 2014

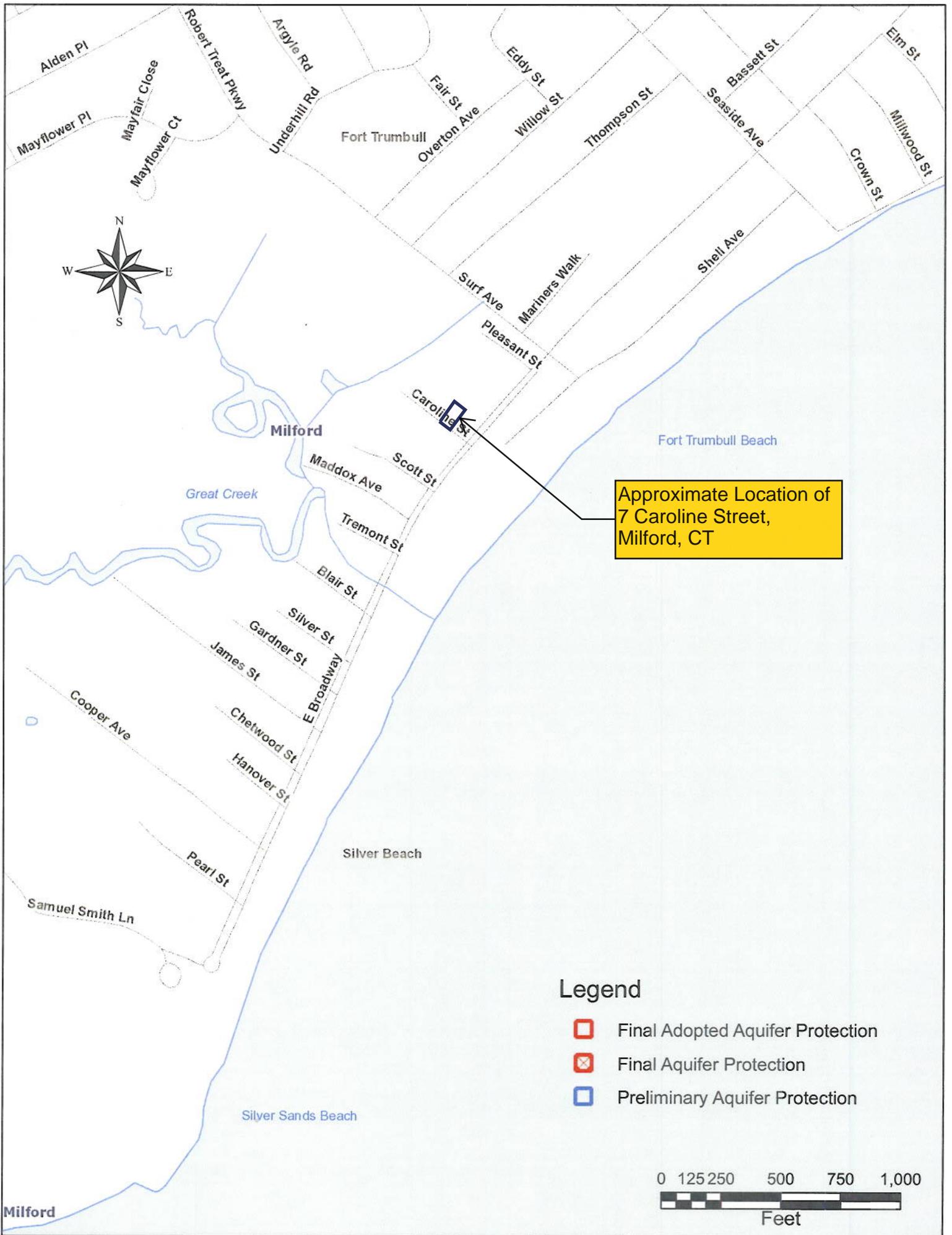


**Wetlands**

-  Freshwater Emergent
-  Freshwater Forested/Shrub
-  Estuarine and Marine Deepwater
-  Estuarine and Marine
-  Freshwater Pond
-  Lake
-  Riverine
-  Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

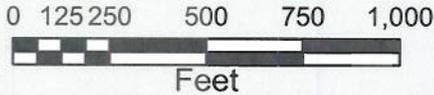
**User Remarks:**



Approximate Location of  
7 Caroline Street,  
Milford, CT

**Legend**

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





# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 3301  
PHONE: (603)223-2541 FAX: (603)223-0104  
URL: [www.fws.gov/newengland](http://www.fws.gov/newengland)

Consultation Tracking Number: 05E1NE00-2014-SLI-0344

June 03, 2014

Project Name: DOH 1060

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

## To Whom It May Concern:

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

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

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

A Biological Assessment is required for construction projects (or other undertakings having

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

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

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

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

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

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

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: DOH 1060

## Official Species List

### Provided by:

New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 3301  
(603) 223-2541  
<http://www.fws.gov/newengland>

**Consultation Tracking Number:** 05E1NE00-2014-SLI-0344

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

**Project Description:** 7 Caroline Street  
Milford, CT



United States Department of Interior  
Fish and Wildlife Service

Project name: DOH 1060

### Project Location Map:



**Project Coordinates:** MULTIPOLYGON (((-73.0621155 41.2073027, -73.0610427 41.2066812, -73.0614396 41.206318, -73.0624374 41.2069476, -73.0621155 41.2073027)))

**Project Counties:** New Haven, CT



United States Department of Interior  
Fish and Wildlife Service

Project name: DOH 1060

## Endangered Species Act Species List

There are a total of 0 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed on the **Has Critical Habitat** lines may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

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



United States Department of Interior  
Fish and Wildlife Service

Project name: DOH 1060

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

There are no critical habitats within your project area.



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

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

January 7, 2014

To Whom It May Concern:

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

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

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

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

Sincerely yours,

Thomas R. Chapman  
Supervisor  
New England Field Office



# Milford Fire Rescue

## EMS/Safety/Hazmat



**To: Thomas Ivers, CDBG Coordinator  
Community Development**

**From: Captain Christopher Waiksnoris**

**Date: April 28, 2014**

**Subject: Thermal/Explosive/Toxic Hazards**

Mr. Ivers,

A review of Milford Fire Department record and site review indicate there are no conditions present that would subject the above listed property to any foreseeable Thermal/Explosive/Toxic Hazard.

This information is provided only for the propose of the United Stated Department of Housing and Development to approve and fund a Community Development Block Grant application for the property listed as 7 Caroline St. This information may not be relied upon by any other person or organizations other than the United States Department of Housing and Urban Development.

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

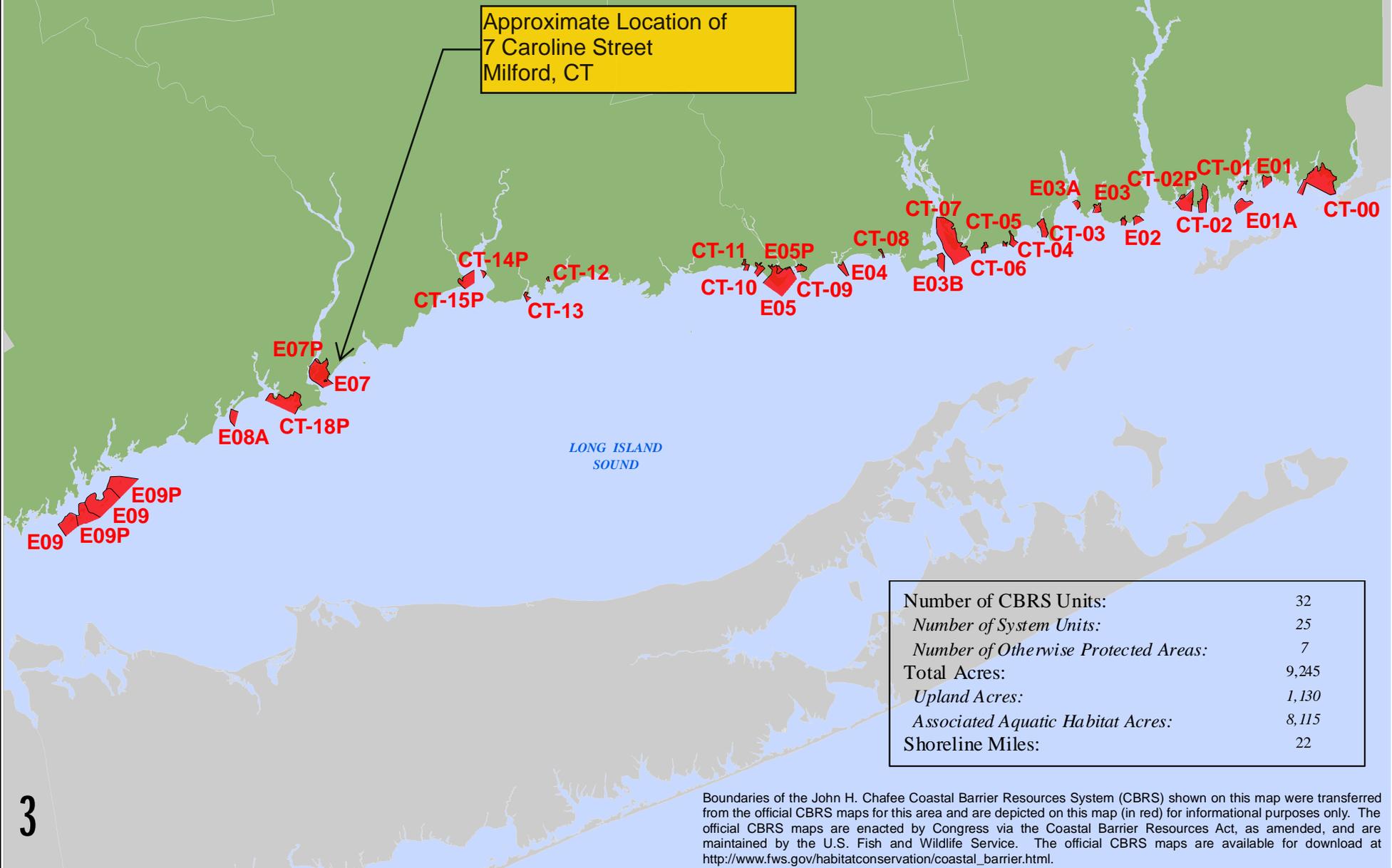
Thank You

Captain Waiksnoris

Milford Fire Department  
EMS HAZMAT SAFETY OFFICER  
72 New Haven Ave  
Milford Ct 06460  
(203)783-3750  
(203)996-2148

# JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM CONNECTICUT

Approximate Location of  
7 Caroline Street  
Milford, CT



Number of CBRS Units:	32
Number of System Units:	25
Number of Otherwise Protected Areas:	7
Total Acres:	9,245
Upland Acres:	1,130
Associated Aquatic Habitat Acres:	8,115
Shoreline Miles:	22

Boundaries of the John H. Chafee Coastal Barrier Resources System (CBRS) shown on this map were transferred from the official CBRS maps for this area and are depicted on this map (in red) for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and are maintained by the U.S. Fish and Wildlife Service. The official CBRS maps are available for download at [http://www.fws.gov/habitatconservation/coastal\\_barrier.html](http://www.fws.gov/habitatconservation/coastal_barrier.html).



March 28, 2014

**Rafael Amaya Architects**  
**284 Racebrook Rd**  
**Orange, CT 06477**

Attn: Rafael Amaya

RE: Hazardous Building Materials Survey for Proposed Renovations  
Location: 7 Caroline St, Milford, CT  
LEA Comm. No. 01MH4.05  
Project Number 1060

Dear Mr. Amaya:

In accordance with our proposal, Loureiro Engineering Associates, Inc (LEA) conducted bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), lead-based paint testing and mold inspection in the dwelling located at 7 Caroline St, Milford, Connecticut. The purpose of the bulk sampling and analysis was to sample suspect materials prior to the proposed renovation of the site structure.

Please refer to Appendix A through D for analytical results and chain of custody forms.

If you have any questions as you review the report, please contact me at 860-410-2945.

Sincerely,

**LOUREIRO ENGINEERING ASSOCIATES, INC.**

A handwritten signature in black ink, appearing to read "Brett Nicholas".

Brett Nicholas  
Industrial Hygienist

A handwritten signature in black ink, appearing to read "Jamie Roche".

Jamie Roche  
Director, Environmental Services

Enclosures:

- Appendix A Asbestos Laboratory Analysis Data
- Appendix B Mold Laboratory Results
- Appendix C Staff and Laboratory Certifications
- Appendix D Pertinent Site Photos

## **1.00 INTRODUCTION**

### *1.1 Purpose*

LEA was retained by Rafael Amaya Architects to conduct bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), test surfaces for lead-based paint and conduct mold testing in the dwelling as needed that may be impacted by the proposed renovation of said dwelling. The Asbestos inspection was completed in accordance with the Environmental Protection Agency (EPA) National Emissions Standards for Hazardous Air Pollutants (NESHAPS) 40 CFR part 61.

### *1.2 Special Terms and Conditions*

Inaccessible areas were generally identified as above or behind documented finish materials. Estimated quantities and approximate locations of ACM's as presented were based on the visual observations at the time of the survey. Visual observations were made to determine ACM quantities. Every attempt was made to locate all suspect materials. However, additional materials may be discovered above hard ceilings or behind walls during demolition or renovation. LEA performed limited destructive investigation for verification of any additional suspect materials.

## **2.0 ASBESTOS INVESTIGATIVE SURVEY**

### *2.1 General Summary*

The following asbestos survey section presents the survey results, methods, and conclusions based on survey findings. A summary of material descriptions, locations and quantities are presented in Table 1, below. Laboratory results are found in Appendix A.

### *2.2 Methodology*

As required by the U.S. Occupational Safety & Health Administration (OSHA), the U.S. Environmental Protection Agency (EPA), and the State of Connecticut Department of Public Health (DPH), sampling was performed by an EPA AHERA-accredited and DPH-certified asbestos inspector (see Appendix C). Sampling was done in a manner to prevent airborne fiber release. Samples were placed in appropriately labeled containers that were sealed and submitted to the laboratory for analysis. The samples were submitted for petrographic analysis using the EPA-endorsed Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The percentage of asbestos present in each sample was determined by the visual area estimation technique.

Samples were collected using a wet technique to prevent airborne fiber release. Each suspect material was sampled using a knife to cut through its entire thickness to ensure that a complete cross section was obtained. The sample was then placed in an appropriately labeled container, which was sealed and submitted to the laboratory for analysis.

Samples were submitted for petrography analysis using the EPA-endorsed Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The percentage of asbestos present in each sample was determined by the visual area estimation technique.

### 2.3 Results of Sampling and Analysis for Asbestos

The table below illustrates each type of suspect asbestos-containing material identified, whether the materials are classified as ACM or not ACM based upon the analytical results and the bulk sample chain of custody forms:

**Table 1 – ACM Summary**

Sample	Description	Location	Quantity	Results
1a,b,c	Red (Tile-pattern) Linoleum	Laundry / Boiler Room	N/A	Non-detect
<b>2a,b,c</b>	<b>9"x9" Brown Floor Tile (under linoleum)</b>	<b>Laundry / Boiler Room</b>	<b>115 square feet</b>	<b>4% Chrysotile</b>
3a,b,c	Tar Paper under 9"x9" Brown Floor Tile	Laundry / Boiler Room	N/A	Non-detect
<b>4a,b,c</b>	<b>Boiler Port Flap / Flue Gaskets</b>	<b>Laundry / Boiler Room</b>	<b>2 square feet</b>	<b>40% Chrysotile</b>
<b>5a,b,c</b>	<b>Boiler Port Flap Residue / Debris</b>	<b>Laundry / Boiler Room</b>	<b>1 square foot</b>	<b>35% Chrysotile</b>
6a-Linoleum	Brown (small tile pattern) Linoleum	Kitchen	N/A	Non-detect
6a-Backing	Brown (small tile pattern) Linoleum	Kitchen	N/A	Non-detect
6b-Linoleum	Brown (small tile pattern) Linoleum	Kitchen	N/A	Non-detect
6b-Backing	Brown (small tile pattern) Linoleum	Kitchen	N/A	Non-detect
6c-Linoleum	Brown (small tile pattern) Linoleum	Kitchen	N/A	Non-detect
6c-Backing	Brown (small tile pattern) Linoleum	Kitchen	N/A	Non-detect
7a,b,c	Grey Linoleum (under kitchen sink)	Kitchen	N/A	Non-detect
8a,b,c	<b>Boiler Flue Cement</b>	<b>Laundry / Boiler Room</b>	<b>2 square feet</b>	<b>15% Chrysotile</b>
9a,b,c	12"x12" Ceramic Tile Grout	Bathroom	N/A	Non-detect
10a	Sheetrock	Kitchen	N/A	Non-detect
10b	Sheetrock	North Bedroom	N/A	Non-detect
10c	Sheetrock	East Bedroom	N/A	Non-detect

<b>11a</b>	<b>Joint Compound</b>	<b>Kitchen</b>	<b>~4000 square feet</b>	<b>2% Chrysotile</b>
<b>11b</b>	<b>Joint Compound</b>	<b>North Bedroom</b>		<b>NA/PS</b>
<b>11c</b>	<b>Joint Compound</b>	<b>East Bedroom</b>		<b>NA/PS</b>
12a-Joint Compound	Sheetrock Joint Tape	Kitchen	N/A	Non-detect
12a-Tape	Sheetrock Joint Tape	Kitchen	N/A	Non-detect
12b- Joint Compound	Sheetrock Joint Tape	Kitchen	N/A	Non-detect
12b- Tape	Sheetrock Joint Tape	Kitchen	N/A	Non-detect
12c- Joint Compound	Sheetrock Joint Tape	Kitchen	N/A	Non-detect
12c- Tape	Sheetrock Joint Tape	Kitchen	N/A	Non-detect
13a,b,c	Grey / Green Asphalt Shingles (Top)	Roof	N/A	Non-detect
14a,b,c	Green Asphalt Shingles (Middle)	Roof	N/A	Non-detect
15a,b,c	Black Asphalt Shingles (Bottom)	Roof	N/A	Non-detect
<b>16a,b,c</b>	<b>Black Chimney Flashing Sealant</b>	<b>Roof / Chimney</b>	<b>15 Linear Feet</b>	<b>7% Chrysotile</b>
<b>17a,b,c</b>	<b>White Chimney Sealant</b>	<b>Chimney</b>	<b>6 Linear Feet</b>	<b>4% Chrysotile</b>
18a,b,c	Exterior Window Frame Caulk	Exterior Windows	N/A	Non-detect
19a,b,c	Exterior Window Glazing	South (Garage) Windows	8 Linear Feet	Non-detect

NA/PS = Not Analyzed / Positive Stop

Please refer to the Appendices specific to the building on the site. Laboratory results and chain of custody forms are included.

### 3.0 LEAD-BASED PAINT SURVEY

The Lead-based paint survey was conducted with an XRF direct reading instrument in accordance with the Department of Housing & Urban Development (HUD) testing guidelines. These protocols were developed for residential or day care facilities and were adopted by the Connecticut Childhood Lead Poisoning Prevention Regulations (CLPPR). The Lead-paint reports were prepared using the CLPPR threshold of 1 mg/cm<sup>2</sup>. Although most surface paints are reported as below the threshold of 1.0 mg/cm<sup>2</sup>, the instrument recorded a result that indicates lead was present in limited locations but below the CLPPR threshold of 1.0. mg/cm<sup>2</sup>.

The State of Connecticut and the U.S. Department of Housing and Urban Development (HUD) have developed technical guidelines for testing, abatement, cleanup, and disposal of lead-based paint in specific types of buildings such as public and Indian housing, and locations where children below the age of six years old reside. These guidelines define the regulated level of lead paint (Toxic Level of Lead) as paint containing greater than 1.0 milligrams lead per square centimeter ( $\text{mg}/\text{cm}^2$ ) of surface as measured on-site by an X-ray fluorescent analyzer or more than 0.50 percent lead by dry weight as measured by Atomic Absorption Spectrometry (AAS).

For the purposes of this report, all paints containing detectable amounts of lead are considered lead-based paints. This action is taken because OSHA regulates lead in construction based on airborne exposures and it cannot be ensured that lead paint with concentrations of lead less than  $1.0 \text{ mg}/\text{cm}^2$  or 0.50% mass will not result in exposures exceeding the OSHA standard.

The table 2 illustrates confirmed locations with detectable amounts of lead:

**Table 2 – Lead Paint Measurable Results**

<b>Room</b>	<b>Component</b>	<b>Side</b>	<b>Paint Color</b>	<b>Substrate (Condition)</b>	<b>Results (<math>\text{mg}/\text{cm}^2</math>)</b>
Laundry / Boiler Room	Wall	West	White	Sheetrock (Intact)	0.0
Laundry / Boiler Room	Wall	East	White	Sheetrock (Intact)	0.0
Laundry / Boiler Room	Wall	North	White	Sheetrock (Intact)	0.0
Laundry / Boiler Room	Wall	South	White	Sheetrock (Intact)	0.0
Laundry / Boiler Room	Ceiling	West	White	Sheetrock (Intact)	0.0
Laundry / Boiler Room	Ceiling	East	White	Sheetrock (Intact)	0.0
Laundry / Boiler Room	Rear Entry Door	Exterior	Red	Wood (Intact)	0.67
Laundry / Boiler Room	Front Entry Door	Exterior	Red	Wood (Intact)	0.24
Laundry / Boiler Room	Front Entry Door	Interior	Red	Wood (Intact)	0.13
Kitchen	Wall	West	White	Sheetrock (Intact)	0.13
Kitchen	Wall	East	White	Sheetrock (Intact)	0.0

Kitchen	Wall	North	White	Sheetrock (Intact)	0.1
Kitchen	Wall	South	White	Sheetrock (Intact)	0.17
Kitchen	Ceiling	North	White	Sheetrock (Intact)	0.13
Kitchen	Ceiling	South	White	Sheetrock (Intact)	0.1
Living Room	Wall	West	White	Sheetrock (Intact)	0.0
Living Room	Wall	East	White	Sheetrock (Intact)	0.0
Living Room	Wall	North	White	Sheetrock (Intact)	0.07
Living Room	Wall	South	White	Sheetrock (Intact)	0.1
Living Room	Ceiling	North	White	Sheetrock (Intact)	0.0
Living Room	Ceiling	South	White	Sheetrock (Intact)	0.13
Hallway	Wall	West	White	Sheetrock (Intact)	0.0
Hallway	Wall	East	White	Sheetrock (Intact)	0.01
Hallway	Wall	North	White	Sheetrock (Intact)	0.0
Hallway	Wall	South	White	Sheetrock (Intact)	0.17
Hallway	Ceiling	North	White	Sheetrock (Intact)	0.0
Hallway	Ceiling	South	White	Sheetrock (Intact)	0.0
Hallway	Attic Hatch	-	White	Wood (Intact)	0.0
Northeast Bedroom	Wall	West	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	East	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	North	White	Sheetrock (Intact)	0.01

Northeast Bedroom	Wall	South	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Ceiling	East	White	Sheetrock (Intact)	0.0
Northeast Bedroom	Ceiling	West	White	Sheetrock (Intact)	0.17
East Bedroom	Wall	West	Red	Sheetrock (Intact)	0.13
East Bedroom	Wall	East	Red	Sheetrock (Intact)	0.0
East Bedroom	Wall	North	Red	Sheetrock (Intact)	0.01
East Bedroom	Wall	South	Red	Sheetrock (Intact)	0.0
East Bedroom	Ceiling	East	White	Sheetrock (Intact)	0.0
East Bedroom	Ceiling	West	White	Sheetrock (Intact)	0.0
Southeast Bedroom	Wall	West	Purple	Sheetrock (Intact)	0.0
Southeast Bedroom	Wall	East	Purple	Sheetrock (Intact)	0.01
Southeast Bedroom	Wall	North	Purple	Sheetrock (Intact)	0.0
Southeast Bedroom	Wall	South	Purple	Sheetrock (Intact)	0.0
Southeast Bedroom	Ceiling	West	White	Sheetrock (Intact)	0.0
Southeast Bedroom	Ceiling	East	White	Sheetrock (Intact)	0.01
Bathroom	Wall	West	Blue	Sheetrock (Intact)	0.0
Bathroom	Wall	East	Blue	Sheetrock (Intact)	0.17
Bathroom	Wall	North	Blue	Sheetrock (Intact)	0.03
Bathroom	Wall	South	Blue	Sheetrock (Intact)	0.01
Bathroom	Ceiling	North	White	Sheetrock (Intact)	0.0

Bathroom	Ceiling	South	White	Sheetrock (Intact)	0.01
Exterior	Window Frame	West	White	Wood (Deteriorated)	0.52
Exterior	Window Frame	West	White	Wood (Deteriorated)	0.57
Exterior	Window Frame	North	White	Wood (Deteriorated)	0.63
Exterior	Window Frame	East	White	Wood (Deteriorated)	0.7
Exterior	Window Frame	East	White	Wood (Deteriorated)	0.59
Exterior	Window Frame	South	White	Wood (Deteriorated)	0.83
Exterior	Window Sash	South	White	Wood (Deteriorated)	0.91
<b>Exterior</b>	<b>Entry Threshold</b>	<b>West</b>	<b>Red / Green</b>	<b>Wood (Deteriorated)</b>	<b>1.13</b>
Exterior	Garage Door	West	White	Wood (Deteriorated)	0.59
Exterior	Crawl Space Door	East	White	Wood (Deteriorated)	0.39

#### 4.0 MOLD

LEA observed water damage and mold growths on the sheetrock of the living room and wood members of the crawl space of the dwelling. The visually impacted surfaces were swab sampled and analyzed via direct microscopic examination in order to determine mold type and relative concentration of the mold. The samples were labeled and delivered with a Chain of Custody to EMSL, which is located in Cinnaminson, NJ. The samples were analyzed by direct examination optical microscopy for mold species identification and quantification. EMSL is an AIHA approved Laboratory.

Laboratory testing confirmed the presence of *Aternaria*, *Ascospores*, *Aspergillus/Penicillium*, *Basidiospores*, *Chaetomium*, *Curvularia*, *Epicoccum*, *Myxomycetes*, *Pithomyces* and *Yeast* molds ranging from rare to medium concentrations on surfaces. Hyphal or fruiting structures were also present indicating active mold colonies. These mold types along with the presence of hyphal structures, indicates that continued mold growth is likely. *Aspergillus/Penicillium* type mold is often associated with buildings having water or moisture problems. Microbiological growth can produce offensive odors and can produce upper respiratory allergy-like symptoms if it is disturbed and the spores inhaled.



## REPORT LIMITATIONS CRITERIA

Information contained in this report is based on site observations, sample results relevant to the scope of work for this survey. Conclusions of this report are based on the survey, study, and/or investigation. This is not to be interpreted as a complete compilation of all existing information pertaining to the site conditions.

It should be noted that site conditions observed during this investigation may change based on any number of influencing factors and/or environmental variables such as fluctuations in indoor and outdoor temperatures, humidity and seasonal changes in sunlight. These factors can influence the spread and concentration of molds as they change. The attached report and analytical data materials are not intended to guarantee that the investigated site is, or is not, free from conditions, which could pose a threat or hazard to human health or safety. Should further research on the site be conducted, any additional data should be submitted to LEA for review and revisions as necessary.

This report is intended for the sole use of the Client, and may not be used or relied upon by others without the written consent of the Client. The scope of work conducted in performing this service for the Client may not be appropriate to satisfy the needs of other Parties, and the use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The criteria used to evaluate the survey results includes, but is not limited to, guidelines recommended by the:

- American Conference of Governmental Industrial; Hygienists (ACGIH);
- The American Society for Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE);
- The U.S. Environmental Protection Agency (EPA);
- The American Industrial Hygiene Association (AIHA);
- The American Indoor Air Quality Council (AIAQC);
- Indoor Environmental Standards Organization (IESO);
- The Institute of Inspection Cleaning and Restoration Certification (IICRC);
- The National Air Duct Cleaners Association (NADCA);
- The New York City Department of Health; and,

Any comments and/or questions in regards this report should be directed to Loureiro Engineering.

**Table 3 – Mold Summary Results**

<b>Sample No. / Location</b>	<b>Fungi Detected</b>	<b>Fungi Concentration</b>	<b>Comments</b>
Sample 1 Living Room (West Wall)	Myxomycetes	Rare	No Active Colonies
Sample 2 Crawl Space (Entrance)	Alternaria	Rare	No Active Colonies
	Ascospores	Rare	No Active Colonies
	Aspergillus/Penicillium	Low	No Active Colonies
	Basidiospores	Rare	No Active Colonies
	Chaetomium	Rare	No Active Colonies
	Curvularia	Rare	No Active Colonies
	Epicoccum	Rare	No Active Colonies
	Myxomycetes	Rare	No Active Colonies
	Pithomyces	Rare	No Active Colonies
	Yeast	*Medium	*Active Colonies

## 7.0 CONCLUSIONS / RECOMMENDATIONS

In accordance with EPA NESHAPS regulations (40 CFR Part 61), building owners must remove all ACM from a facility (or area of a facility) before any activity begins that would break up, dislodge, or similarly disturb the ACM.

In accordance with the OSHA regulations (29 CFR Part 1926.1101 and 1910.1001), all potential contractors bidding on work must first be informed of the results of this survey. In addition, notification regarding the presence of the ACM must be provided to all employees and tenants who occupy an area containing ACM.

In the State of Connecticut, a licensed asbestos abatement contractor must perform all asbestos-related activities, including the renovation/demolition portion of the work that includes asbestos. Disturbance of asbestos-containing material can only be done by trained and licensed individuals. It should be noted that the State of Connecticut regulations governing asbestos abatement does not distinguish between friable and non-friable material. Therefore, full containment procedures are required for any interior abatement work (removal, encapsulation, or enclosure) involving both Category I and/or Category II non-friable asbestos-containing materials.

All materials identified as negative for asbestos may be removed at will and disposed of as standard construction debris as long as they do not impact or disturb identified asbestos materials.



Asbestos containing materials that will be impacted by renovation activities, as well as estimated abatement costs, are as follows:

ACM Material	Quantity	Per unit abatement cost estimate	Total Abatement Cost
Floor Tile (Boiler Room)	112 s.f.	\$6	\$672
Joint Compound (Boiler Room, Kitchen, Living Room, All Bedrooms, Bathroom)	4000 s.f.	\$6	\$24,000
Boiler Gaskets & Flue Cement	4	\$200 Each	\$800
Consulting Fees at 20%			\$5,000
		<b>TOTAL</b>	<b>\$30,472</b>

During any renovation or demolition process, safe work procedures must be implemented by properly (lead-paint) trained workers employed by contractors to address worker protection, lead exposure controls, waste stream management, and ambient air quality monitoring. Specifically, contractors will be required to comply with all applicable OSHA regulations including 29 CFR 1926.62, "Lead Exposure in Construction: Interim Final Rule" and 29 CFR 1926.59, "Hazard Communication for the Construction Industry". In addition, pre-disposal lead-waste testing requirements must be complied with.

The below mentioned entry threshold is defined as a friction surface and will require a full replacement rather than abatement of the finish paint.

Lead-Painted Components	Quantity	Per unit abatement cost estimate	Total Abatement Cost
Boiler / Laundry Room Entry Threshold	1	\$100	\$100
Consulting Fees			\$100
		<b>TOTAL</b>	<b>\$200</b>



LEA recommends contracting a qualified mold remediation contractor to remove all mold affected surfaces and treatment of structural studs, headers, etc. prior to renovations.

Mold Contaminated Components	Quantity	Per unit abatement cost estimate	Total Abatement Cost
Crawl Space	900 s.f.	\$8	\$7200
		<b>TOTAL</b>	<b>\$7200</b>

## **Appendix A**

### **Asbestos Laboratory Analysis Data**



# EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492  
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EMSL Order: 241400835  
CustomerID: LOUR62  
CustomerPO:  
ProjectID:

Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Phone: (860) 747-6181  
Fax: (860) 747-8822  
Received: 03/11/14 11:05 AM  
Analysis Date: 3/13/2014  
Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

## 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
031014-1A 241400835-0001	Laundry/boiler room - red (tile-pattern) linoleum	Brown/Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
031014-1B 241400835-0002	Laundry/boiler room - red (tile-pattern) linoleum	Brown/Gray Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
031014-1C 241400835-0003	Laundry/boiler room - red (tile-pattern) linoleum	Brown/Gray Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
031014-2A 241400835-0004	Laundry/boiler room - 9"x9" brown floor tile (under linoleum)	Brown Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
031014-2B 241400835-0005	Laundry/boiler room - 9"x9" brown floor tile (under linoleum)				Stop Positive (Not Analyzed)
031014-2C 241400835-0006	Laundry/boiler room - 9"x9" brown floor tile (under linoleum)				Stop Positive (Not Analyzed)
031014-3A 241400835-0007	Laundry/boiler room - tar paper under 9x9 brown F.T.	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected

Analyst(s)  
Nancy Stalter (13)  
Shane Feret (33)

Gloria V. Oriol, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40



# EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492  
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EMSL Order: 241400835  
CustomerID: LOUR62  
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Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
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Phone: (860) 747-6181  
Fax: (860) 747-8822  
Received: 03/11/14 11:05 AM  
Analysis Date: 3/13/2014  
Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

## 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
031014-3B 241400835-0008	Laundry/boiler room - tar paper under 9x9 brown F.T.	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
031014-3C 241400835-0009	Laundry/boiler room - tar paper under 9x9 brown F.T.	White/Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
031014-4A 241400835-0010	Laundry/boiler room - boiler port flap/flue gaskets	White Fibrous Homogeneous		60% Non-fibrous (other)	40% Chrysotile
031014-4B 241400835-0011	Laundry/boiler room - boiler port flap/flue gaskets				Stop Positive (Not Analyzed)
031014-4C 241400835-0012	Laundry/boiler room - boiler port flap/flue gaskets				Stop Positive (Not Analyzed)
031014-5A 241400835-0013	Laundry/boiler room - boiler port flap residue/debris	Brown Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
031014-5B 241400835-0014	Laundry/boiler room - boiler port flap residue/debris				Stop Positive (Not Analyzed)
031014-5C 241400835-0015	Laundry/boiler room - boiler port flap residue/debris				Stop Positive (Not Analyzed)

Analyst(s)  
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Shane Feret (33)

Gloria V. Oriol, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40



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EMSL Order:	241400835
CustomerID:	LOUR62
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Attn: <b>Jamie Roche</b> <b>Loureiro Engineering Associates, Inc.</b> <b>100 Northwest Drive</b> <b>Plainville, CT 06062</b>	Phone: (860) 747-6181 Fax: (860) 747-8822 Received: 03/11/14 11:05 AM Analysis Date: 3/13/2014 Collected: 3/10/2014
Project: <b>01MH4.05 (7 CAROLINE ST.)</b>	

## 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
031014-6A-Linoleum 241400835-0016	Kitchen - brown (small tile pattern) linoleum	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-6A-Backing 241400835-0016A	Kitchen - brown (small tile pattern) linoleum	Blue Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
031014-6B-Linoleum 241400835-0017	Kitchen - brown (small tile pattern) linoleum	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-6B-Backing 241400835-0017A	Kitchen - brown (small tile pattern) linoleum	Blue Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
031014-6C-Linoleum 241400835-0018	Kitchen - brown (small tile pattern) linoleum	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-6C-Backing 241400835-0018A	Kitchen - brown (small tile pattern) linoleum	Blue Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
031014-7A 241400835-0019	Kitchen - grey linoleum (under kitchen sink)	Gray/Black Fibrous Heterogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
031014-7B 241400835-0020	Kitchen - grey linoleum (under kitchen sink)	Gray/Black Fibrous Heterogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected

Analyst(s)  
 Nancy Stalter (13)  
 Shane Feret (33)

  
 Gloria V. Oriol, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40

**EMSL Analytical, Inc.**

29 North Plains Highway, Unit # 4, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

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

EMSL Order: 241400835

CustomerID: LOUR62

CustomerPO:

ProjectID:

Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Phone: (860) 747-6181  
 Fax: (860) 747-8822  
 Received: 03/11/14 11:05 AM  
 Analysis Date: 3/13/2014  
 Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

## 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
031014-7C 241400835-0021	Kitchen - grey linoleum (under kitchen sink)	Gray/Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
031014-8A 241400835-0022	Laundry/boiler room - boiler flue cement	Gray Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile
031014-8B 241400835-0023	Laundry/boiler room - boiler flue cement				Stop Positive (Not Analyzed)
031014-8C 241400835-0024	Laundry/boiler room - boiler flue cement				Stop Positive (Not Analyzed)
031014-9A 241400835-0025	Bathroom - 12"x12" ceramic tile grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-9B 241400835-0026	Bathroom - 12"x12" ceramic tile grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-9C 241400835-0027	Bathroom - 12"x12" ceramic tile grout	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-10A 241400835-0028	Kitchen - sheetrock	White Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
031014-10B 241400835-0029	North bedroom - sheetrock	White Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected

Analyst(s)

Nancy Stalter (13)

Shane Feret (33)

Gloria V. Oriol, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40



# EMSL Analytical, Inc.

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EMSL Order: 241400835  
CustomerID: LOUR62  
CustomerPO:  
ProjectID:

Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Phone: (860) 747-6181  
Fax: (860) 747-8822  
Received: 03/11/14 11:05 AM  
Analysis Date: 3/13/2014  
Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

## 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
031014-10C 241400835-0030	East bedroom - sheetrock	White Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (other)	None Detected
031014-11A 241400835-0031	Kitchen - joint compound	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
031014-11B 241400835-0032	North bedroom - joint compound				Stop Positive (Not Analyzed)
031014-11C 241400835-0033	East bedroom - joint compound				Stop Positive (Not Analyzed)
031014-12A-Joint Compound 241400835-0034	Kitchen - sheetrock joint tape	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-12A-Tape 241400835-0034A	Kitchen - sheetrock joint tape	White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
031014-12B-Joint Compound 241400835-0035	Kitchen - sheetrock joint tape	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031014-12B-Tape 241400835-0035A	Kitchen - sheetrock joint tape	White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected

Analyst(s)  
Nancy Stalter (13)  
Shane Feret (33)

Gloria V. Oriol, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40

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EMSL Order:	241400835
CustomerID:	LOUR62
CustomerPO:	
ProjectID:	

Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Phone: (860) 747-6181  
 Fax: (860) 747-8822  
 Received: 03/11/14 11:05 AM  
 Analysis Date: 3/13/2014  
 Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

## 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
031014-12C-Joint Compound <i>241400835-0036</i>	Kitchen - sheetrock joint tape	White Non-Fibrous  Homogeneous		100% Non-fibrous (other)	None Detected
031014-12C-Tape <i>241400835-0036A</i>	Kitchen - sheetrock joint tape	White Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
031014-13A <i>241400835-0037</i>	Roof - grey/green asphalt shingles (top)	Gray/Green Fibrous Heterogeneous	20% Glass	80% Non-fibrous (other)	None Detected
031014-13B <i>241400835-0038</i>	Roof - grey/green asphalt shingles (top)	Gray/Green Fibrous Heterogeneous	20% Glass	80% Non-fibrous (other)	None Detected
031014-13C <i>241400835-0039</i>	Roof - grey/green asphalt shingles (top)	White/Black/Green Fibrous Heterogeneous	20% Glass	80% Non-fibrous (other)	None Detected
031014-14A <i>241400835-0040</i>	Roof - green asphalt shingles (middle)	Black/Green Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
031014-14B <i>241400835-0041</i>	Roof - green asphalt shingles (middle)	Black/Green Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
031014-14C <i>241400835-0042</i>	Roof - green asphalt shingles (middle)	Black/Green Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected

Analyst(s)  
 Nancy Stalter (13)  
 Shane Feret (33)

  
 Gloria V. Oriol, Laboratory Manager  
 or other approved signatory

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Initial report from 03/14/2014 10:10:40



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EMSL Order: 241400835  
CustomerID: LOUR62  
CustomerPO:  
ProjectID:

Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Phone: (860) 747-6181  
Fax: (860) 747-8822  
Received: 03/11/14 11:05 AM  
Analysis Date: 3/13/2014  
Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

## 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
031014-15A 241400835-0043	Roof - black asphalt shingles (bottom)	Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
031014-15B 241400835-0044	Roof - black asphalt shingles (bottom)	Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
031014-15C 241400835-0045	Roof - black asphalt shingles (bottom)	Black Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
031014-16A 241400835-0046	Roof - black chimney flashing sealant	Black Non-Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
031014-16B 241400835-0047	Roof - black chimney flashing sealant				Stop Positive (Not Analyzed)
031014-16C 241400835-0048	Roof - black chimney flashing sealant				Stop Positive (Not Analyzed)
031014-17A 241400835-0049	Roof - white chimney sealant	White Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
031014-17B 241400835-0050	Roof - white chimney sealant				Stop Positive (Not Analyzed)
031014-17C 241400835-0051	Roof - white chimney sealant				Stop Positive (Not Analyzed)

Analyst(s)  
Nancy Stalter (13)  
Shane Feret (33)

  
Gloria V. Oriol, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40



**EMSL Analytical, Inc.**

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EMSL Order: 241400835  
CustomerID: LOUR62  
CustomerPO:  
ProjectID:

Attn: **Jamie Roche**  
**Loureiro Engineering Associates, Inc.**  
**100 Northwest Drive**  
**Plainville, CT 06062**

Phone: (860) 747-6181  
Fax: (860) 747-8822  
Received: 03/11/14 11:05 AM  
Analysis Date: 3/13/2014  
Collected: 3/10/2014

Project: **01MH4.05 (7 CAROLINE ST.)**

**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
031014-18A 241400835-0052	Windows - exterior window frame caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
031014-18B 241400835-0053	Windows - exterior window frame caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
031014-18C 241400835-0054	Windows - exterior window frame caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  

---

*Nancy Stalter (13)*  
*Shane Feret (33)*

---

Gloria V. Oriol, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/14/2014 10:10:40

**EMSL Analytical, Inc.**

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EMSL Order:	241400952
CustomerID:	LOUR62
CustomerPO:	
ProjectID:	

Attn: **Jamie Roche**  
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**Plainville, CT 06062**

Phone: (860) 747-6181  
 Fax: (860) 747-8822  
 Received: 03/18/14 10:35 AM  
 Analysis Date: 3/19/2014  
 Collected: 3/17/2014

Project: **01MH4.05 (7 CAROLINE ST, MILFORD)**

## 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
031714-19A 241400952-0001	Garage windows- exterior window glazing	Gray Non-Fibrous Homogeneous	<1% Fibrous (other)	10% Ca Carbonate 90% Non-fibrous (other)	<b>None Detected</b>
031714-19B 241400952-0002	Garage windows- exterior window glazing	Gray Non-Fibrous Homogeneous	<1% Fibrous (other)	15% Ca Carbonate 85% Non-fibrous (other)	<b>None Detected</b>
031714-19C 241400952-0003	Garage windows- exterior window glazing	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Analyst(s)  
 \_\_\_\_\_  
 Edward Leary (2)  
 Renaldo Drakes (1)

  
 \_\_\_\_\_  
 Gloria V. Oriol, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 03/19/2014 11:01:48



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# Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

241400835

EMSL ANALYTICAL, INC.  
4 FAIRFIELD BLVD  
WALLINGFORD, CT 06492  
PHONE: (203) 284-5948  
FAX: (203) 284-5978

Company : Loureiro Engineering Associates, Inc		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Dr		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: US
Report To (Name): Jamie Roche		Telephone #: 860-410-2945	
Email Address: jaroche@Loureiro.com		Fax #: 860-747-8822	Purchase Order:
Project Name/Number: OIMH4.05 (7 Caroline St.)		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: CT		CT Samples: <input type="checkbox"/> Commercial/Taxable <input checked="" type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*For TEM Air 3 hr through 6 hr, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM - Bulk
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	<u>Other</u>
<input type="checkbox"/> OSHA ID-191 Modified	<input type="checkbox"/>
<input type="checkbox"/> Standard Addition Method	

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 3-10-14

Samplers Name: Brett Nicholas Samplers Signature: [Signature]

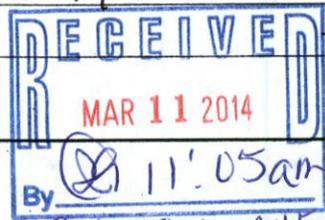
Sample #	HA #	Sample Location	Material Description
031014-1A		Laundry/Boiler Room	Red (Tile-Pattern) Linoleum
* -1B		↓	
* -1C			
* -2A			9"x9" Brown Floor Tile (under linoleum)
* -2B			
* -2C			
* -3A			Tar Paper under 9x9 Brown F.T.
* -3B			
* -3C			
* -4A			Boiler Port Flap / Flue Gaskets

Client Sample # (s): 1A - 18C Total # of Samples: 54

Relinquished (Client): [Signature] Date: 3-10-14 Time: FedEx

Received (Lab): Date: Time:

Comments/Special Instructions:



By [Signature] 11:05am  
Tel 804124523219



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

241400835

EMSL ANALYTICAL, INC.  
4 FAIRFIELD BLVD  
WALLINGFORD, CT 06492  
PHONE: (203) 284-5948  
FAX: (203) 284-5948

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
031014 - 4B	Boiler Port Flap / Flue Gasket	Laundry/Boiler Room	3-10-14
" - 4C	↓	↓	↓
" - 5A	Boiler Port Flap Residue / Debris	↓	↓
" - 5B	↓	↓	↓
" - 5C	↓	↓	↓
" - 6A	Brown (Small Tile Pattern) Linoleum	Kitchen	↓
" - 6B	↓	↓	↓
" - 6C	↓	↓	↓
" - 7A	Gray Linoleum (under kitchen sink)	↓	↓
" - 7B	↓	↓	↓
" - 7C	↓	↓	↓
" - 8A	Boiler Flue Cement	Laundry/Boiler Room	↓
" - 8B	↓	↓	↓
" - 8C	↓	↓	↓
" - 9A	12"x12" Ceramic Tile Grout	Bathroom	↓
" - 9B	↓	↓	↓
" - 9C	↓	↓	↓
" - 10A	Sheetrock	Kitchen	↓
" - 10B	↓	North Bedroom	↓
" - 10C	↓	East Bedroom	↓
" - 11A	Joint Compound	Kitchen	↓
" - 11B	↓	North Bedroom	↓
" - 11C	↓	East Bedroom	↓

\*Comments/Special Instructions:

RECEIVED  
MAR 11 2014  
By: [Signature] 11:05am



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### Asbestos Chain of Custody

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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
031014-12A	Sheetrock Joint Tape	Kitchen	3-10-14
" - 12B	↓	↓	↓
" - 12C	↓	↓	↓
" - 13A	Grey/Green Asphalt Shingles (Top)	Roof	
" - 13B	↓	↓	↓
" - 13C	↓	↓	↓
" - 14A	Green Asphalt Shingles (Middle)		
" - 14B	↓		
" - 14C	↓		
" - 15A	Black Asphalt Shingles (Bottom)		
" - 15B	↓		
" - 15C	↓		
" - 16A	Black Chimney Flashing Sealant		
" - 16B	↓		
" - 16C	↓		
" - 17A	White Chimney Sealant		
" - 17B	↓		
" - 17C	↓		
" - 18A	Exterior Window Frame Caulk	windows	
" - 18B	↓	↓	↓
" - 18C	↓	↓	↓

\*Comments/Special Instructions:

RECEIVED  
 MAR 11 2014  
 BY: [Signature] H. O'Sam

24140095 2

Wallingford, CT  
4 Fairfield Blvd  
Wallingford, CT 06492  
PHONE: (203) 284-5948  
FAX: (203) 284-5978

Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

[Empty box for EMSL Order Number]



Company: Loureiro Engineering Associates, Inc  
Address: 100 Northwest Dr  
City/State/Zip: Plainville, CT 06062  
EMSL-Bill to:  Same  Different  
If Bill to Different note instructions in Comments  
Third Party Billing requires written authorization from third party

Report To (Name): Jamie Roche  
Telephone: 860-747-6181  
Fax: 860-747-8822  
Email Address: jaroche@loureiro.com

Project Name/Number: **01MH4.05 (7 Caroline St, Milford)**  
Please Provide Results: Email  Purchase Order:  State Samples Taken: CT  
Connecticut Samples:  Commercial  Residential

Turnaround Time (TAT) Options\* - Please Check  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week  
 \*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
---	---	--

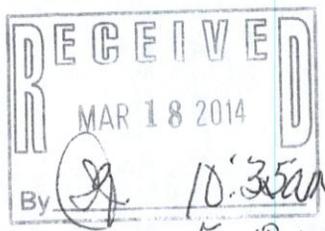
Check For Positive Stop - Clearly Identify Homogenous Group  
Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: **Brett Nicholes** Samplers Signature: *[Signature]*

Sample #	Sample Description	Area (Air) / HA # (Bulk)	Date/Time Sampled
031714-19A	Exterior Window Glazing	Garage Windows	3-17-14
" - 19B	↓	↓	↓
" - 19C	↓	↓	↓

Client Sample # (s): **19A - 19C** Total # of Samples: **3**  
 Relinquished (Client): *[Signature]* Date: **3-17-14** Time: **FedEx**  
 Received (Lab): Date: Time:

Comments/Special Instructions:



By *[Signature]* 10:35am  
 000528010773  
 1/20/2012

## **Appendix B**

### **Mold Laboratory Results**



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-0262  
<http://www.EMSL.com> / [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

Order ID: 371403165  
Customer ID: LOUR62  
Customer PO:  
Project ID:

**Attn:** Jamie Roche  
Loureiro Engineering Associates, Inc.  
100 Northwest Drive  
Plainville, CT 06062

Phone: (860) 747-6181  
Fax: (860) 747-8822  
Collected: 03/10/2014  
Received: 03/11/2014  
Analyzed: 03/13/2014

**Proj:** 01MH4-05 (7 Caroline St)

## Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

Lab Sample Number:	371403165-0001	371403165-0002			
Client Sample ID:	031014-Swab-1	031014-Swab-2			
Sample Location:	Living Room (West Wall)	Crawl Space (Entrance)			
Spore Types	Category	Category			
Agrocybe/Coprinus	-	-			
Alternaria	-	Rare			
Ascospores	-	Rare			
Aspergillus/Penicillium	-	Low			
Basidiospores	-	Rare			
Bipolaris++	-	-			
Chaetomium	-	Rare			
Cladosporium	-	-			
Curvularia	-	Rare			
Epicoccum	-	Rare			
Fusarium	-	-			
Ganoderma	-	-			
Myxomycetes++	Rare	Rare			
Paecilomyces	-	-			
Rust	-	-			
Scopulariopsis	-	-			
Stachybotrys	-	-			
Torula	-	-			
Ulocladium	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Pithomyces	-	Rare			
Yeast	-	*Medium*			
Fibrous Particulate	-	-			
Hyphal Fragment	Rare	Rare			
Insect Fragment	Low	Low			
Pollen	-	Rare			

Category: Count/per area analyzed  
Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000  
  
Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut  
\* = Sample contains fruiting structures and/or hyphae associated with the spores.

  
Farbod Nekouei, M.S., Laboratory Manager  
or Other Approved Signatory

No discernable field blank was submitted with this group of samples.  
EMSL maintains liability limited to cost of analysis. 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 or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. \*- denotes not detected. Samples received in good condition unless otherwise noted.  
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Accredited #100194

Initial report from: 03/14/2014 09:11:10

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)

371403165

Microbiology Laboratory Chain of Custody  
EMSL Order Number (Lab Use Only):

Wallingford, CT  
4 Fairfield Blvd  
Wallingford, CT 06492  
PHONE: (203) 284-5948  
FAX: (203) 284-5978



Company: Loureiro Engineering Associates, Inc		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Street: 100 Northwest Dr					
City/State/Zip: Plainville, CT 06062					
Report To (Name): Jamie Roche		Fax: 860-747-8822			
Telephone: 860-747-5181		Email Address: jaroche@loureiro.com			
Project Name/Number: DIMH4.05 (7 Caroline St.)					
Please Provide Results: Email		Purchase Order:			
State Samples Taken: CT		Connecticut Samples: <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential			
<b>Turnaround Time (TAT) Options* - Please Check</b>					
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week					
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements					
<b>Non Culturable Air Samples (Spore Traps)</b>					
<ul style="list-style-type: none"> <li>M001 Air-O-Cell</li> <li>M049 BioSIS</li> <li>M030 Micro 5</li> </ul>		<ul style="list-style-type: none"> <li>M173 Allegro M2</li> <li>M003 Burkard</li> <li>M174 MoldSnap</li> </ul>			
<ul style="list-style-type: none"> <li>M004 Allergenco</li> <li>M043 Cyclex</li> <li>M176 Relle Smart</li> </ul>		<ul style="list-style-type: none"> <li>M032 Allergenco-D</li> <li>M002 Cyclex-d</li> <li>M130 Via-Cell</li> </ul>			
<b>Other Microbiology Test Codes</b>					
<ul style="list-style-type: none"> <li>M041 Fungal Direct Examination</li> <li>M005 Viable Fungi ID and Count</li> <li>M006 Viable Fungi ID and Count (Speciation)</li> <li>M007 Culturable Fungi</li> <li>M008 Culturable Fungi (Speciation)</li> <li>M009 Gram Stain Culturable Bacteria</li> <li>M010 Bacterial Count and ID - 3 Most Prominent</li> <li>M011 Bacterial Count and ID - 5 Most Prominent</li> <li>M013 Sewage Contamination in Buildings</li> </ul>		<ul style="list-style-type: none"> <li>M014 Endotoxin Analysis</li> <li>M015 Heterotrophic Plate Count</li> <li>M180 Real Time Q-PCR-ERMI 36 Panel</li> <li>M018 Total Coliform (Membrane Filtration)</li> <li>M020 Fecal Streptococcus (Membrane Filtration)</li> <li>M210-215 Legionella Detection</li> <li>M026 Recreational Water Screen</li> <li>M027 Mycotoxin Analysis</li> </ul>			
<ul style="list-style-type: none"> <li>M029 Enterococci</li> <li>M019 Fecal Coliform</li> <li>M133 MRSA Analysis</li> <li>M028 Cryptococcus neoformans Detection</li> <li>M120 Histoplasma capsulatum Detection</li> <li>M033-39 Allergen Testing</li> <li>M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)</li> <li>Other See Analytical Price Guide</li> </ul>					
<b>Preservation Method (Water):</b>					
Name of Sampler: Brett Nicholes		Signature of Sampler:			
Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
03/10/14-Swab-1	Living Room (west wall)	Swab	M041		3-10-14
" - " - 2	Crawl Space (entrance)	Swab	M041		3-10-14
Client Sample # (s): 1 - 2		Total # of Samples: 2			
Relinquished (Client):		Date: 3-10-14	Time: FedEx		
Received (Client):		Date: 3-11-14	Time: 9:50		
Comments/Special Instructions: <del>EMSL</del> FX					

2014 MAR 11 A 11:12  
 CINNAMINSON, N.J.  
 EMSL  
 RECEIVED

## **Appendix C**

### **Staff and Laboratory Certifications**

## Lookup Detail View

Name

**Name**

LOUREIRO ENGINEERING ASSOCIATES INC

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Lead Consultant Contractor	2068	12/31/2014	12/22/2004	LOUREIRO ENGINEERING ASSOCIATES INC	ACTIVE	None

Generated on: 1/28/2014 2:23:49 PM

**INSTRUCTIONS:**

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

**STATE OF CONNECTICUT**  
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED  
BY THIS DEPARTMENT AS A

**LEAD INSPECTOR**

**BRETT M NICHOLAS**

CERTIFICATION NO.  
002212  
CURRENT THROUGH  
07/31/14  
VALIDATION NO.  
03-756542

  
SIGNATURE

  
COMMISSIONER

EMPLOYER'S COPY

**STATE OF CONNECTICUT**  
DEPARTMENT OF PUBLIC HEALTH

NAME

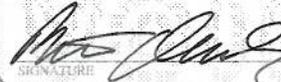
**BRETT M NICHOLAS**

VALIDATION NO.  
03-756542

CERTIFICATION NO.  
002212  
PROFESSION

CURRENT THROUGH  
07/31/14

LEAD INSPECTOR

  
SIGNATURE

  
COMMISSIONER



State of Connecticut

## Lookup Detail View

Name

**Name**

BRETT M NICHOLAS

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Action Pending Charge
Asbestos Consultant-Inspector	685	07/31/2014	09/18/2007	Brett M. Nicholas	ACTIVE	None

Generated on: 7/11/2013 3:24:59 PM

## Messages

Close

Submit

---

# 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. - CT

LOCATED AT 4 Fairfield Blvd. IN Wallingford, CT 06492

AND REGISTERED IN THE NAME OF Gloria Oriol

THIS CERTIFICATE IS ISSUED IN THE NAME OF Gloria Oriol 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, Non-potable Water/Wastewater

Examination for:  
Bacteria

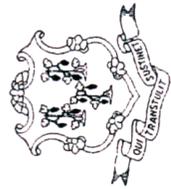
#### ASBESTOS

Examination for:  
Air - PCM, TEM Bulk Materials - PLM, TEM  
Water - TEM

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

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 28<sup>th</sup> DAY OF September 2012



Registration No.

**PH-0322**

A handwritten signature in black ink, appearing to read "Suzanne Blancaflor".

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

**Appendix D**  
**Pertinent Site Photos**

Living Room – Typical State of Sheetrock / Joint Compound



Boiler Room – Floor Tile and Boiler / Chimney Flue



Basement – Mold Growth





State of Connecticut

# City of Milford

70 West River Street Milford, CT 06460 Ph: 203 783-3234 fax: 203 783-3690



## Application for Building Permit

**RECEIPT**

Application No: **TB-14-1010**

Date Received: **10/14/2014**

Job Location: **7 CAROLINE ST**

Permit For: **SANDY - New Construction**

Contractor's Name:

Phone:

Contractor's Address:

City:

State: Zip Code:

State Lic. No:

(Home)Owner's Name: **SAFYRE COLLEEN N**

Phone:

(Home)Owner's Address: **7 CAROLINE ST**

Work Description: **By CAM approved 9/16/14. Construct new single family dwelling. Foundation wall with vents. First floor: two-car garage, interior stairs, front landing/stairs. Second floor: Living/kitchen/dining, master br/bath/wid, 2 other bedrooms, second full bath, 15.5'x10' deck. Unfinished attic with mechanicals.**

Total Value Of Work To Be Performed: **\$200,000.00**

Structure Size:	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	Width	Depth	Area

*I hereby swear and attest that I will require proof of workers' compensation insurance for every contractor, subcontractor, or other worker before he/she engages in work on the above property in accordance with the Workers' Compensation Act (Chapter 568).*

*I understand that pursuant to 31-275 C.G.S., officers of a corporation and partners in a partnership may elect to be excluded from coverage by filing a waiver with the appropriate District Office; and that a sole proprietor of a business is not required to have coverage unless he files his intent to accept coverage.*

*I hereby certify that I am the owner of the property which is the subject of this application or the authorized agent of the property owner and have been authorized to make this application. I understand that when a permit is issued, it is a permit to proceed and grants no right to violate the Connecticut State Building Code or any other code, ordinance or statute, regardless of what might be shown or omitted on the submitted plans and specifications. All information contained within is true and accurate to the best of my knowledge and belief.*

*All permits approved are subject to inspections performed by a representative of this office. Requests for inspections must be made at least 24 hours in advance.*

Signed: **Amaya Architects**

**10/14/2014**

**(203) 795-5656**

Applicant

Date

Telephone No.

### Estimated Construction Costs / Permit Fees

Total Project Cost :	<b>\$200,000.00</b>	Payment Date	Amount Paid	Check No
Total Permit Fee:	<b>\$52.00</b>	10/14/2014	\$52.00	
Total Permit Fee Paid:	<b>\$52.00</b>			

**THIS IS NOT A PERMIT**



State of Connecticut

**CITY OF MILFORD**

70 West River Street Milford, CT 06460 Ph: 203 783-3234 fax: 203 783-3690



Permit No. Z-14-335

# Zoning Permit

VALUE: \$200000.00

FEE PAID: \$60.00

DATE ISSUED: 10/14/2014

PERMIT FOR: Site Improvements

This certifies that SAFYRE COLLEEN N

has permission to conduct activities at:

7 CAROLINE ST

as follows: **By CAM approved 9/16/14. Construct new single family dwelling. Foundation wall with vents. First floor: two-car garage, interior stairs, front landing/stairs. Second floor: Living/kitchen/dining, master br/bath/wid, 2 other bedrooms, second full bath, 15.5'x10' deck. Unfinished attic with mechanicals.**

provided that the person accepting this permit shall in every respect conform to the terms of the application therefore on file in this office, and to the zoning regulations for the City of Milford.

NOTE: The recipient of this permit accepts this permit on the condition that, as owner or as agent of the owner, he/she agrees to comply with all regulations of the City of Milford, and any condition set forth by the Planning & Zoning Board, Zoning Board of Appeals, or other body having authority.

Restrictions:

Zoning Enforcement Official

10/14/2014

Date

**This Card Must Be Displayed in a Conspicuous Place on the Premises  
and Not Torn Down or Removed**



# City of Milford, Connecticut

- Founded 1639 -

70 West River Street - Milford, CT 06460-3317

Tel 203-783-3245 FAX 203-783-3303

Website: [www.ci.milford.ct.us](http://www.ci.milford.ct.us)

E-mail: [planning@ci.milford.ct.us](mailto:planning@ci.milford.ct.us)

Planning and Zoning  
Board

David B. Sulkis, A.I.C.P.  
City Planner

September 24, 2014

Mr. Rafael A. Amaya, II  
Amaya Architects  
284 Racebrook Road  
Orange, CT 06477

**Re: 7 Caroline Street, Coastal Area Management Site Plan Review**

Dear Mr. Amaya:

At its meeting held on September 16, 2014, the Planning and Zoning Board voted to approve your petition for a Coastal Area Management Site Plan Review to construct a single family residence on Map 27, Block 448, Parcel 15, in the R-5 zone, of which Colleen Safyre is the owner.

Approval is in accordance with the Coastal Area Management Site Plan Review prepared by Amaya Architects and plans prepared by Loureiro Engineering Associates, Inc. and Amaya Architects, which are described as follows:

Sheet	Description	Date	Revised
	Cover Sheet	-	-
T1	Title Sheet	7/29/2014	-
A1	First Floor Plan	7/29/2014	-
A2	Second Floor Plan; Partition Types and Roof Plan	7/29/2014	-
A3	Proposed Elevations	7/29/2014	-
A4	Building Section & Details	7/29/2014	-
A3.1	Elevations	6/9/2014	-
A4.1	Details – Enlarged Plans	7/29/2014	-
A5	Window & Door Schedules and Details. Finish Schedule	7/29/2014	-
A6	Enlarged Plans; Interior Elevations & Details	7/29/2014	-
	Site Plan	8/15/2014	8/18/2014
	Existing Conditions	6/9/2014	-
S-1	Structural Details	8/26/2014	-
S-2	Foundation Plan and Second Floor Plan	8/26/2014	-
S-3	Structural Plans and Details	8/26/2014	-



Douglas A. Edo  
Chief

## Milford Fire Department

72 New Haven Avenue  
Milford, CT 06460

Administrative Offices  
Tel. (203) 874-6321  
Fax (203) 783-3744

TO: RAPHAEL AMAYA, ARCHITECT

FROM: ROBERT J. HEALEY  
ASSISTANT CHIEF/FIRE MARSHAL *Robert J. Healey*

DATE: SEPTEMBER 3, 2014

SUBJECT: 7 CAROLINE STREET - RESIDENTIAL - SITE PLAN  
NEW SINGLE FAMILY RESIDENCE

This office reviewed the site plan for 7 Caroline Street as submitted to our office on September 3, 2014. The plan meets the requirements for Fire Department access.

In addition, the plan meets the requirements with regard to the water standard, specifically fire hydrants and water supply.

**THIS OFFICE HAS NO OBJECTION TO THE  
APPLICABLE PERMIT BEING ISSUED.**

cc: Mr. David B. Sulkis, A.I.C.P.  
City Planner  
Planning & Zoning  
[dsulkis@ci.milford.ct.us](mailto:dsulkis@ci.milford.ct.us)

cc: Ronald Wetmore  
Milford Fire Department  
Battalion Chief - Planning  
[rwetmore@ci.milford.ct.us](mailto:rwetmore@ci.milford.ct.us)

cc: Phyllis Leggett  
Planning & Zoning  
[pleggett@ci.milford.ct.us](mailto:pleggett@ci.milford.ct.us)

**E-MAILED**  
9-3-14

*Make Every Day - Fire Prevention Day*



# City of Milford, Connecticut

- Founded 1639 -

Inland Wetlands Office  
inlandwetland@ci.milford.ct.us

70 West River Street  
Milford, CT 06460-3317  
Tel 203-783-3256  
FAX 203-783-3303

September 10, 2014

Mr. Raphael Amaya  
Amaya Architects  
284 Racebrook Road  
Orange, Connecticut 06477

Re: IW-JR-14-055: 7 Caroline St; Map 27 Block 448 Parcel 15; Colleen Safyre; Proposal to Elevate existing structure with addition of decks and stairs for access with work proposed within 100' of a wetland or watercourse in the South central Shoreline Watershed.

Dear Mr. Amaya:

The Milford Inland Wetlands and Watercourses Agency has received your plans entitled "*Application No 1060 Safyre Residence 7 Caroline Street, Milford, CT*" by Loureiro Engineering Associates Inc and Amaya Architects, cover and 13 sheets dated 7/29/14 and the Wetland and Watercourse Delineation letter by JMM Wetland Consulting Services, LLC. dated 8/11/14.

I have reviewed the above information, the MIWA maps and Regulations, the attached 6/4/13 DEEP email and visited the site. I spoke with Jim McManus the Soil Scientist for the project on 9/10/14 and discussed the proposal with Chairman Collins. In our discussion, Mr. McManus said that the wetlands line is at the Coastal Jurisdiction Line (CJL). No work is proposed at or below the CJL of elevation 2.9. The work as proposed on the plans with proper Erosion and Sedimentation Control and Best Management Practices for construction will have a minimal impact; therefore, I am issuing this Jurisdictional Ruling for the elevation of the existing residence at 7 Caroline Street. No soils or material may be stockpiled to the rear of the house and must be placed in the front yard or removed from the site.

Please be advised that this letter applies only to the specific plans noted above. **Any** revision of these plans will require further review by this Agency. You are responsible for contacting other permitting authorities to determine if additional Local, State and Federal permits are required for this project. No fill material may be placed in the wetland or upland review area without additional review by the MIWA. Best Management practices and proper sedimentation and soil erosion controls as found in the "*2002 Connecticut Guidelines for Sedimentation and Erosion Controls*" should be implemented on site to prevent degradation of offsite wetlands.

Should you have any questions concerning this matter, please contact the Inland Wetlands Agency Office at 203-783-3256.

Sincerely,

MaryRose Palumbo  
Inland Wetlands Compliance Officer

c: DPLU  
Planning & Zoning  
City Engineer



# City of Milford, Connecticut

- Founded 1639 -

Office of  
DIRECTOR OF PUBLIC WORKS  
Chris Saley

RECEIVED

SEP 13 2014

PLANNING & ZONING  
MILFORD, CT 06460

Date: September 12, 2014

To: Stephen Harris, Planning & Zoning

From: Chris Saley, Public Works Director  
*C Saley, (KH)*

Re: 7 Caroline Street

The Public Works Department agrees with the City Engineer review comments.

enc.

CS:kh



# City of Milford, Connecticut

Engineering Office

RECEIVED

TO: Christopher Saley   
Director of Public Works

FROM: Gary W. Wassmer, PE, LS, and CFM   
City Engineer

DATE: September 5, 2014

SUBJECT: 7 Caroline Street

PLANNING & ZONING  
MILFORD, CT 06460

I have received and reviewed the following plans for the above mentioned property and offer the following comments based upon the City of Milford – Engineering Bureau, Engineering Guidelines for Preparation of Site Plans, Plot Plans and other Proposed Development Plans.

- Property Boundary and Topographic Survey, Existing Conditions, dated 6/9/2014.
  - The existing sanitary sewer main in the Right of Way should be shown.
- Property Boundary and Topographic Survey, Site Plan, dated 8/15/2014.
  - The proposed apron should be concrete.
  - Details of the apron, sidewalk and residential inspection riser should be incorporated into the final construction plans and provided to Planning and Zoning prior to issuance of a permit.
  - Where required by A-2 Survey standards, at least two corners shall be identified by Connecticut State Geodetic System Coordinates. (Available coordinate points are on file in the Engineering Bureau.) This can be shown on the As-Built.
  - The proposed sanitary lateral shall be 6" diameter.
  - An Anti-Tracking pad should be installed prior to construction. Extra precautions should be taken to prevent tracking of material offsite since the anti-tracking pad is less than the standard 50 feet in length.
  - A note should be added to the Erosion Control Notes an agent or agents who have the responsibility and authority for the implementation, operation, monitoring and maintenance of E&S measures. See page 3-12 of the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*.
- CAM Report
  - There should be clarification as to if the existing structure is to be raised or removed. The Site Plan calls for the house and garage to be removed, but the CAM report, Part II.A states the existing dwelling will be raised.

## General Comments

1. Permits from the City of Milford Engineering Department for the driveway apron and sidewalk are to be obtained prior to construction and are to be constructed in accordance with the City of Milford Standards.
2. A permit is required from the City of Milford Engineering Department for the sanitary sewer work is to be obtained prior to construction and is to be constructed in accordance with the City of Milford Standards.

GWW

Cc: Planning & Zoning  
File