1275
MG

Department of Economic and Community Development

Connecticut
still revolutionary

September 30, 2014

received
10-6-14

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

Subject: 10 East Avenue
Milford, CT

Dear Ms. Delaire:

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

The property located at 10 East Avenue appears to be eligible for listing on the National Register of Historic Places as a contributing resource to a potential historic district.

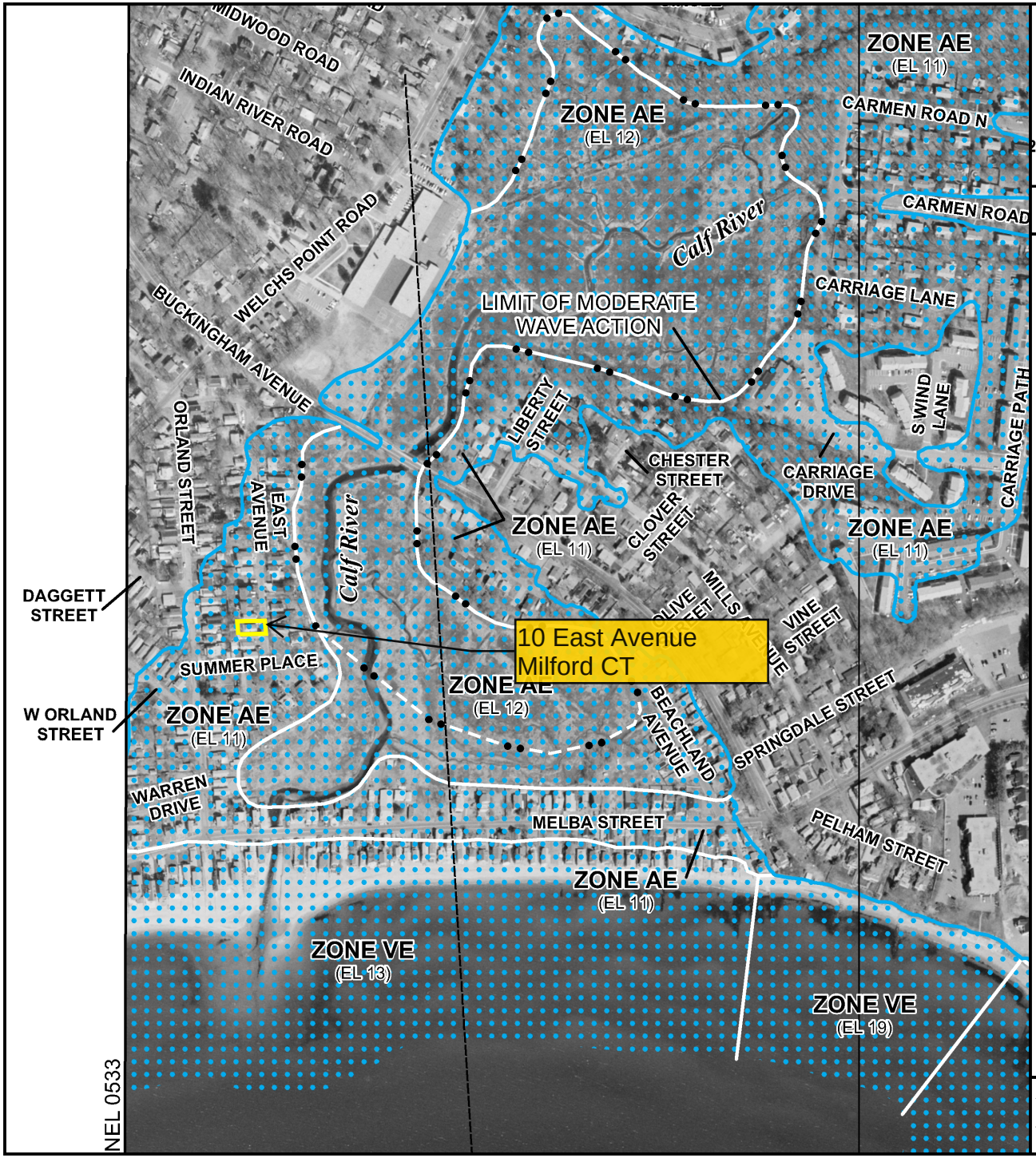
Your work plan, drawings and specifications includes systems replacement, deck reconstruction, and elevation of the structure. The SHPO has determined that the undertaking as proposed will constitute no adverse effects to historic resources.

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

Sincerely,

Mary B. Dunne

Mary B. Dunne
Deputy State Historic Preservation Officer



NEL 0533

MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0534J

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 534 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0534	J

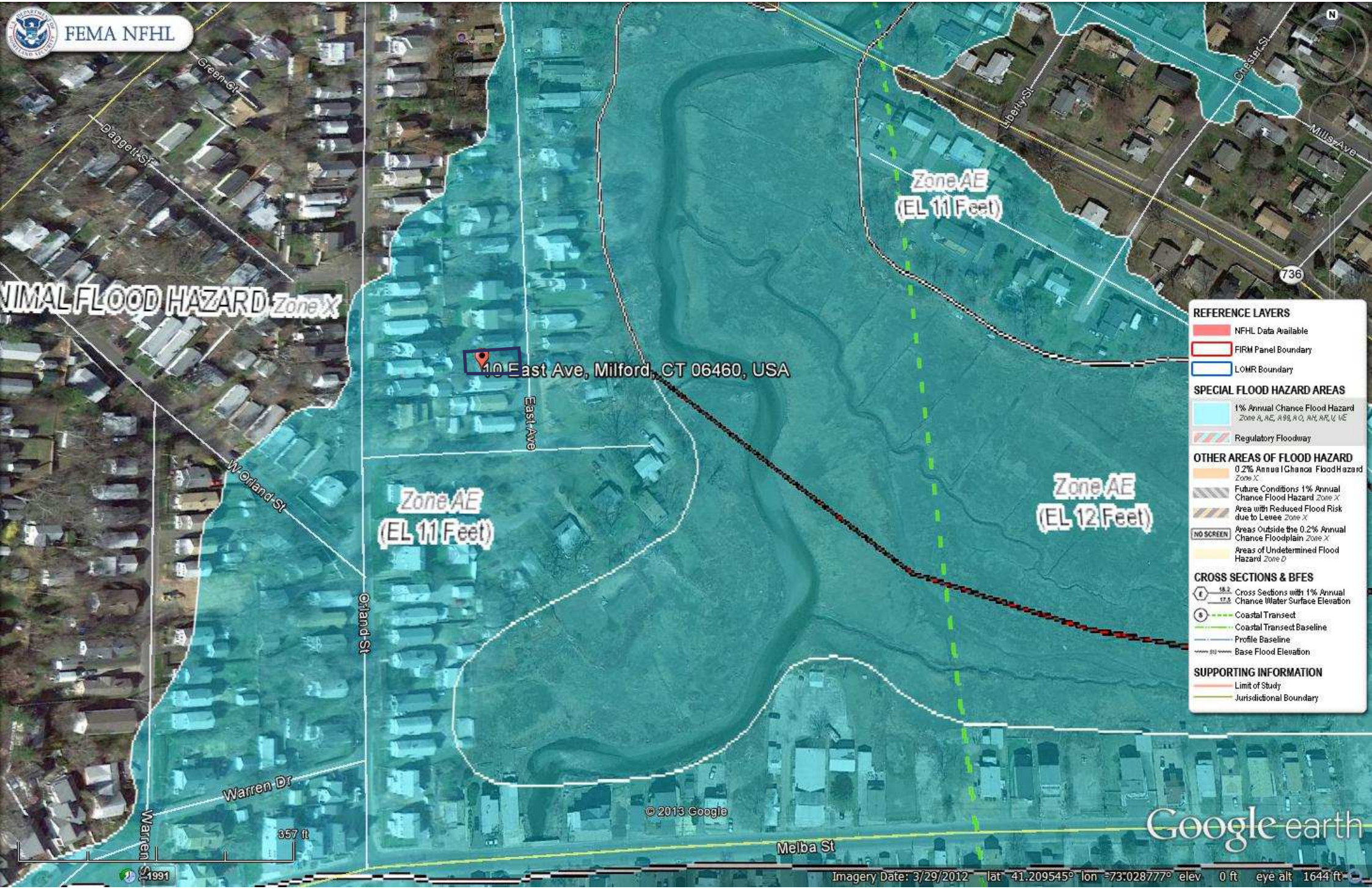
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09009C0534J

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


FEMA NFHL
Green St
Daggett St
NIMAL FLOOD HAZARD Zone X
10 East Ave, Milford, CT 06460, USA
East Ave
W Orland St
Zone AE
(EL 11 Feet)
Orland St
Warren Dr
Warren St
357 ft
© 2013 Google
Melba St
Zone AE
(EL 11 Feet)
Liberty St
Chester St
Mills Ave
736
Zone AE
(EL 12 Feet)
REFERENCE LAYERS
NFHL Data Available
FIRM Panel Boundary
LOMR Boundary
SPECIAL FLOOD HAZARD AREAS
1% Annual Chance Flood Hazard Zone A, AE, A99, AO, AH, AR, V, VE
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
NO SCREEN
Areas Outside the 0.2% Annual Chance Floodplain Zone X
Areas of Undetermined Flood Hazard Zone D
CROSS SECTIONS & BFES
Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transect
Coastal Transect Baseline
Profile Baseline
Base Flood Elevation
SUPPORTING INFORMATION
Limit of Study
Jurisdictional Boundary
Google earth
1991
Imagery Date: 3/29/2012 lat 41.209545° lon -73.028777° elev 0 ft eye alt 1644 ft

U.S. Fish and Wildlife Service

National Wetlands Inventory

10 East Ave.
Milford, CT

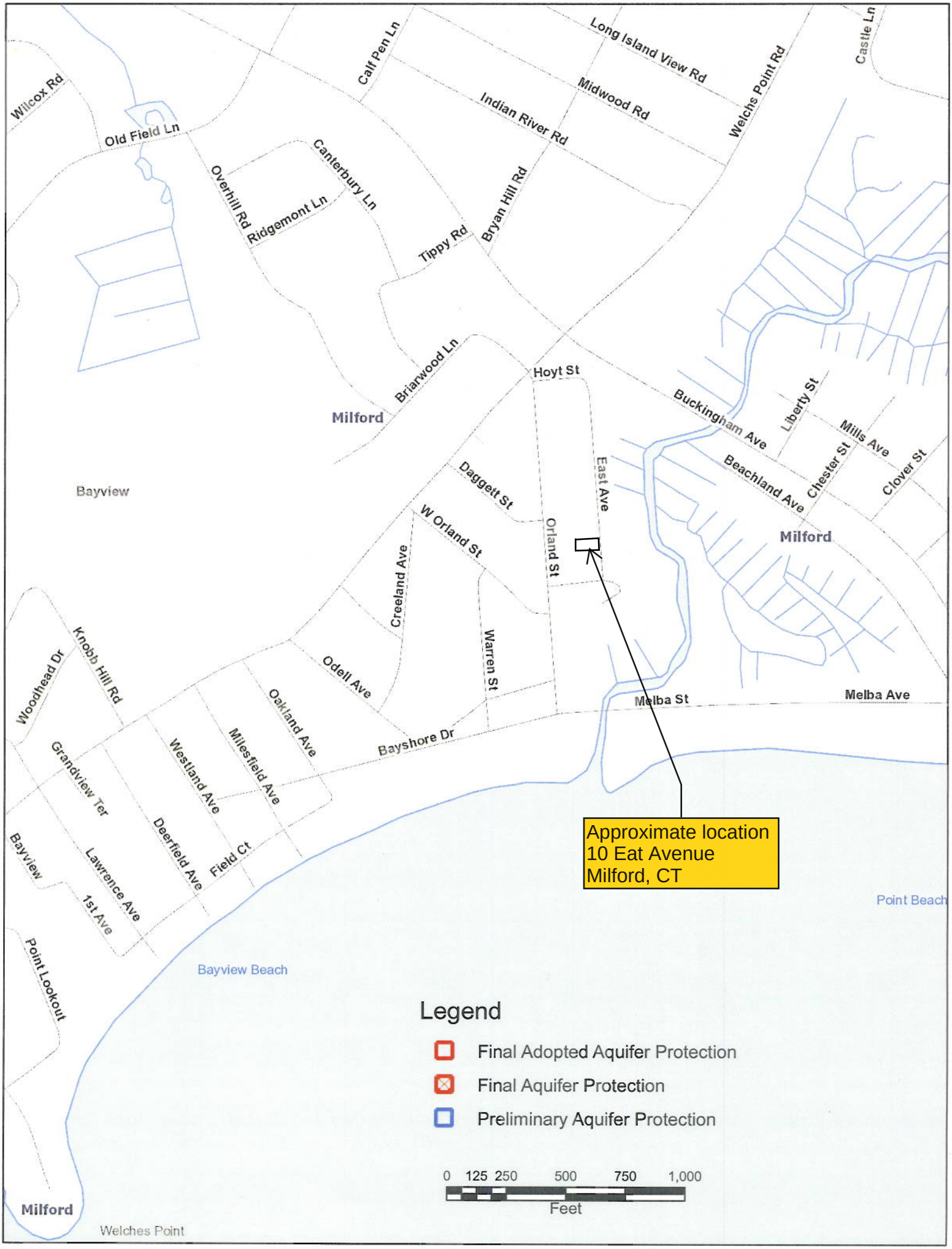
May 21, 2014

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:


Wilcox Rd
Old Field Ln
Calf Pen Ln
Long Island View Rd
Welchs Point Rd
Castle Ln
Midwood Rd
Indian River Rd
Canterbury Ln
Overhill Rd
Ridgemont Ln
Tippy Rd
Bryan Hill Rd
Briarwood Ln
Hoyt St
Milford
Buckingham Ave
Liberty St
Mills Ave
Beachland Ave
Chester St
Clover St
Bayview
Daggett St
East Ave
W Orland St
Orland St
Milford
Creeland Ave
Warren St
Knobb Hill Rd
Woodhead Dr
Odell Ave
Oakland Ave
Melba St
Melba Ave
Bayshore Dr
Grandview Ter
Westland Ave
Milesfield Ave
Deerfield Ave
Field Ct
Bayview
Lawrence Ave
1st Ave
Point Lookout
Bayview Beach
Point Beach
Approximate location
10 Eat Avenue
Milford, CT
Legend
Final Adopted Aquifer Protection
Final Aquifer Protection
Preliminary Aquifer Protection
0 125 250 500 750 1,000
Feet
Milford
Welches Point

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

Consultation Tracking Number: 05E1NE00-2014-SLI-0391 June 09, 2014
Project Name: DOH 1275

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1275

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-0391
Project Type: ** Other **
Project Description: 10 East Avenue
Milford CT

United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1275

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-73.0299035 41.2097243, -73.0299679 41.2101843, -73.029646 41.210209, -73.0295924 41.209765, -73.0299035 41.2097243)))

Project Counties: New Haven, CT

United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1275

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.

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 10 East Ave.
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.

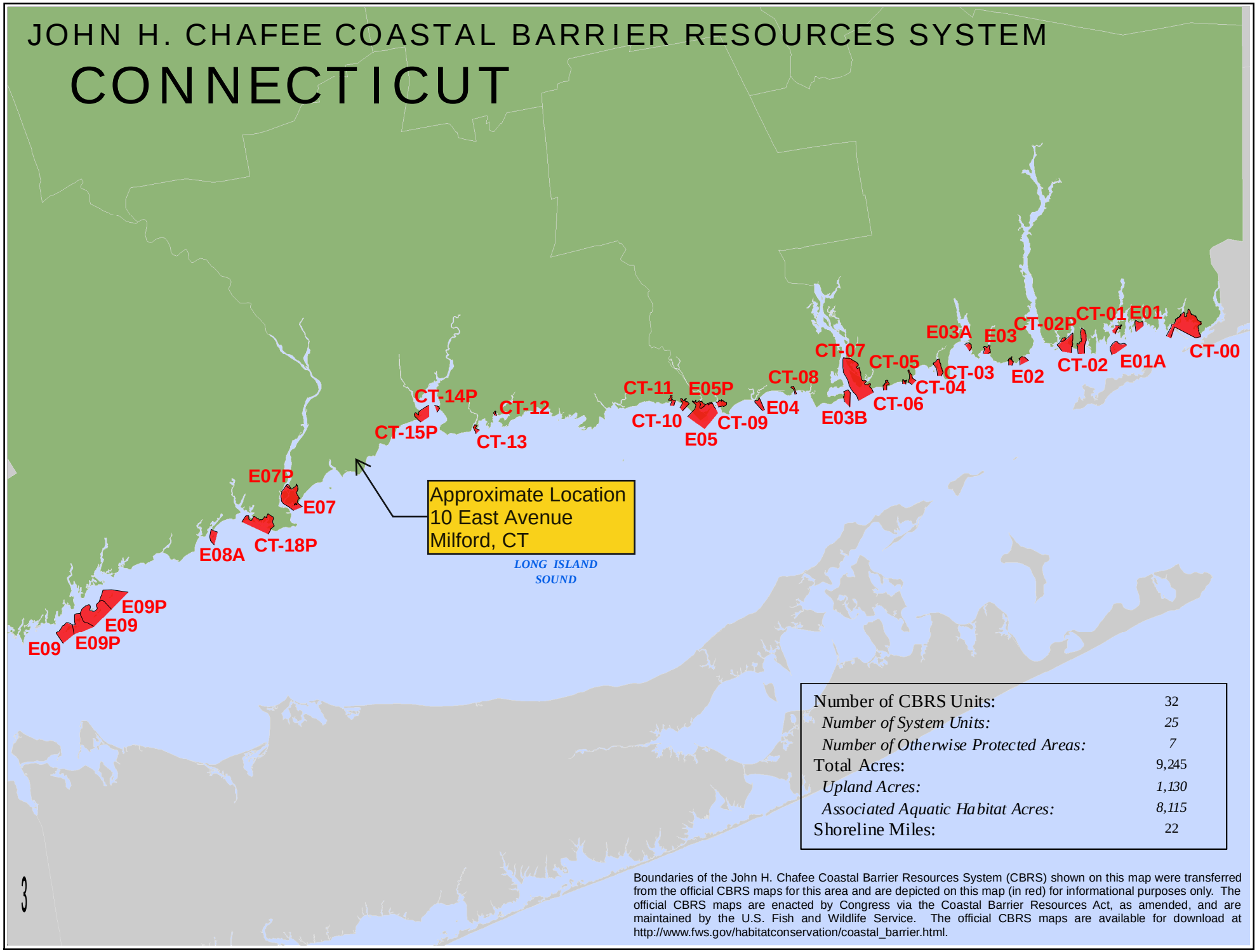
Thank You

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



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.

Loureiro

Engineering • Construction • EH&S • Energy • Waste

April 14, 2014

Amaya Architects
284 Racebrook Rd
Orange, CT 06477

Attn: Rafael Amaya

RE: Hazardous Building Materials Survey for Proposed Renovations
Location: 10 East Ave, Milford, CT
LEA Comm. No. 01MH4.02
Project No: 1275

Dear Mr. Amaya:

In accordance with our proposal, Loureiro Engineering Associates, Inc (Loureiro) 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 10 East Ave, 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.

Brett Nicholas
Industrial Hygienist

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

Loureiro was retained by 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

Loureiro was contracted to perform an investigative survey of all accessible interior and exterior building materials. These areas included the living spaces, attic, basement, porches, exterior areas and roof. 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. Loureiro 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	Sheetrock	1st Floor	N/A	Non-detect
2a,b,c	Joint Compound	1st Floor	N/A	Non-detect
3a	Troweled Ceiling Texture	Living Room	N/A	Non-detect
3b	Troweled Ceiling Texture	Northwest Bedroom	N/A	Non-detect
3c	Troweled Ceiling Texture	West Bedroom	N/A	Non-detect
4a,b,c	12”x12” Beige Self-Stick Floor Tile	Bathroom	N/A	Non-detect
5a,b,c	12”x12” White Floor Tile under Self-Stick	Bathroom	N/A	Non-detect
6a,b,c	**Beige Linoleum under Plywood Sub-Floor**	**Bathroom**	**50 S.F.**	**15% Chrysotile**
7a,b,c	**Tar Paper under Beige Linoleum**	**Bathroom**	**50 S.F.**	**10% Chrysotile**
8a,b,c	Cement Wall Boards	Bathroom	N/A	Non-detect
9a,b,c	Faux Dark Wood Flooring	West Bedroom	N/A	Non-detect
10a,b,c	Faux Light Wood Flooring	Front Porch Room	N/A	Non-detect
11a,b,c	Beige Asphalt Roof Shingle	Roof	N/A	Non-detect
12a,b,c	Vent Stack Flashing Tar	Roof	N/A	Non-detect
13a,b,c	Felt Paper under Beige Asphalt Roof Shingles	Roof	N/A	Non-detect
14a,b,c	Flue Penetration Sealant (White)	Attic	N/A	Non-detect
15a,b,c	Sheetrock Joint Tape	1st Floor	N/A	Non-detect

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 report was prepared using the CLPPR threshold of 1 mg/cm^2. Although most surface paints are reported as below the threshold of 1.0 mg/cm^2, the instrument recorded results that indicates lead was present in limited locations above and below the CLPPR threshold of 1.0. mg/cm^2.

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 (mg/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 the Occupational Safety & Health Administration (OSHA) regulates lead in construction (29 CFR 1926.62) based on airborne exposures and it cannot be ensured that lead paint with concentrations of lead less than 1.0 mg/cm^2 or 0.50% mass will not result in exposures exceeding the OSHA standard.

In addition, demolition waste with lead painted components is subject to Resource Conservation and Recovery Act (RCRA) Hazardous Waste Regulations (40 CFR Part 261-265). : Regulates the disposal of hazardous wastes (wastes which contain concentrations of lead in excess of 5 parts per million (5 ppm) as measured by TCLP), including demolition debris.

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

Table 2 – Lead Paint Measurable Results

Area / Room	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm^2)
Front Room	Front Door	Exterior	Brown	Wood (Intact)	0.16
Front Room	Front Door	Interior	Red	Wood (Intact)	0.64

Front Room	Front Door Jamb	-	Beige	Wood (Intact)	0.0
Front Room	Front Door Trim	-	White	Wood (Intact)	0.0
Front Room	Archway	-	White	Wood (Intact)	0.0
Front Room	Baseboard	North	White	Wood (Intact)	0.0
Front Room	Baseboard	East	White	Wood (Intact)	0.0
Front Room	Baseboard	East	White	Wood (Intact)	0.0
Front Room	Baseboard	South	White	Wood (Intact)	0.0
Front Room	Window Frame	Northeast	White	Wood (Intact)	0.0
Front Room	Window Frame	Southeast	White	Wood (Intact)	0.0
Front Room	**Original Floor**	**North**	**Blue**	**Wood (Intact)**	**3.26**
Front Room	Wall	North	Beige	Sheetrock (Intact)	0.0
Front Room	Wall	West	Beige	Sheetrock (Intact)	0.0
Front Room	Wall	South	Beige	Sheetrock (Intact)	0.0
Front Room	Wall	East	Beige	Sheetrock (Intact)	0.0
Front Room	Ceiling	-	White	Sheetrock (Intact)	0.0
Living Room	**Wall**	**North**	**Beige**	**Sheetrock (Intact)**	**>5**
Living Room	Wall	East	Beige	Sheetrock (Intact)	0.0
Living Room	Wall	South	Beige	Sheetrock (Intact)	0.0
Living Room	Archway	-	White	Wood (Intact)	0.0
Living Room	**Baseboard**	**South**	**Beige**	**Wood (Intact)**	**1.28**

Dining Room	Wall	North	Beige	Sheetrock (Intact)	0.0
Dining Room	Wall	West	Beige	Sheetrock (Intact)	0.0
Dining Room	Wall	South	Beige	Sheetrock (Intact)	0.0
Dining Room	Wall	East	Beige	Sheetrock (Intact)	0.0
Dining Room	**Window Frame**	**North**	**White**	**Wood (Intact)**	**>4.82**
Dining Room	**Window Sill**	**North**	**White**	**Wood (Intact)**	**>5**
Dining Room	**Baseboard**	**North**	**White**	**Wood (Intact)**	**>5**
Dining Room	**Baseboard**	**West**	**White**	**Wood (Intact)**	**>5**
Dining Room	**Baseboard**	**South**	**White**	**Wood (Intact)**	**>5**
Dining Room	**Baseboard**	**East**	**White**	**Wood (Intact)**	**>5**
Dining Room	**Wood Ceiling Framing**	**-**	**White**	**Wood (Intact)**	**3.38**
Dining Room	**Ceiling (Sheetrock)**	**-**		**Sheetrock (Intact)**	**>2.75**
Kitchen	Wall	North	Brown	Sheetrock (Intact)	0.0
Kitchen	Wall	South		Sheetrock (Intact)	0.0
Kitchen	Wall	West	Orange	Sheetrock (Intact)	0.0
Kitchen	Ceiling	-	White	Sheetrock (Intact)	0.0
Kitchen	Side Door	Interior	White	Wood (Intact)	0.0
Kitchen	Side Door	Exterior	Beige	Wood (Intact)	0.0
Kitchen	Side Door Jamb	-	White	Wood (Intact)	0.0
Kitchen	Side Door Trim	Interior	White	Wood (Intact)	0.0

Kitchen	Baseboard	West	White	Wood (Intact)	0.0
Bathroom	**Wall**	**North**	**Yellow**	**Cement Board (Intact)**	**>5**
Bathroom	**Wall**	**West**	**Yellow**	**Cement Board (Intact)**	**>5**
Bathroom	**Wall**	**South**	**Yellow**	**Cement Board (Intact)**	**>5**
Bathroom	**Wall**	**East**	**Yellow**	**Cement Board (Intact)**	**>5**
Bathroom	**Baseboard**	**North**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Baseboard**	**West**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Baseboard**	**South**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Baseboard**	**East**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Trim / Molding**	**North**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Trim / Molding**	**West**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Trim / Molding**	**South**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Trim / Molding**	**East**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Ceiling**	**-**	**White**	**Cement Board (Intact)**	**>1.9**
Bathroom	**Door Frame**	**-**	**White**	**Wood (Intact)**	**>5**
Bathroom	Door (Bathroom)	-	White	Wood (Intact)	0.06
Bathroom	Door (to Hall)	-	White	Wood (Intact)	0.11
Bathroom	**Window Frame**	**-**	**White**	**Wood (Intact)**	**>5**
Bathroom	**Window Sill**	**-**	**White**	**Wood (Intact)**	**>5**
Hallway	**Wall**	**North**	**Beige**	**Sheetrock (Intact)**	**>5**

Hallway	Wall	South	Beige	Sheetrock (Intact)	0.0
Hallway	**Baseboard**	**North**	**White**	**Wood (Intact)**	**>5**
Hallway	**Baseboard**	**South**	**White**	**Wood (Intact)**	**>5**
Hallway	Ceiling	-	White	Sheetrock (Intact)	0.0
Northwest Bedroom	Wall	North	Purple	Sheetrock (Intact)	0.0
Northwest Bedroom	Wall	West	Purple	Sheetrock (Intact)	0.0
Northwest Bedroom	**Wall**	**South**	**Purple**	**Sheetrock (Intact)**	**>5**
Northwest Bedroom	Wall	East	Purple	Sheetrock	0.0
Northwest Bedroom	**Crown Molding**	**North**	**White**	**Wood (Intact)**	**>5**
Northwest Bedroom	Ceiling Texture	-	White	Texture Coat (Intact)	0.0
Northwest Bedroom	Ceiling Wood Framing	-	White	Wood (Intact)	0.52
Northwest Bedroom	Ceiling Sheetrock	-	White	Sheetrock (Intact)	0.44
Northwest Bedroom	**Door Jamb**	**-**	**White**	**Wood (Intact)**	**>5**
Northwest Bedroom	Door	-	White	Wood (Intact)	0.06
Northwest Bedroom	**Window Frame**	**North**	**White**	**Wood (Intact)**	**>5**
Northwest Bedroom	**Window Sill**	**North**	**White**	**Wood (Intact)**	**>5**
West Bedroom	Door Jamb	-	White	Wood (Intact)	0.0
West Bedroom	Door Trim	-	White	Wood (Intact)	0.0
West Bedroom	Door	-	White	Wood (Intact)	0.0
West Bedroom	Ceiling	-	White	Sheetrock (Intact)	0.0

West Bedroom	Wall	North	Beige	Sheetrock (Intact)	0.0
West Bedroom	Wall	East	Beige	Sheetrock (Intact)	0.0
West Bedroom	Wall	South	Beige	Sheetrock (Intact)	0.0
West Bedroom	Wall	West	Beige	Sheetrock (Intact)	0.0
West Bedroom	Baseboard	East	White	Wood (Intact)	0.0
West Bedroom	Window Trim	West	White	Wood (Intact)	0.0

4.0 MOLD

Loureiro observed water damage and mold growths in the crawl space of the dwelling. The visually impacted surfaces were sampled with a sterile swab 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 *Cladosporium* and *Yeast* molds at a low concentration on structural 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. Cladosporium molds have been reported to cause infections of the skin as well as sinusitis and pulmonary infections. Microbiological growth can produce offensive odors and can produce upper respiratory allergy-like symptoms if it is disturbed and the spores inhaled.

Table 3 – Mold Summary Results

Sample No. / Location	**Fungi Detected**	**Fungi Concentration**	**Comments**
Sample 1 Basement / Crawl Space	Cladosporium Yeast	Low Low	*Active Colonies *Active Colonies

REPORT LIMITATIONS CRITERIA

Information contained in the mold 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.

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 lead and asbestos 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
Linoleum and Associated Tar Paper (with Sub-Floor)	50 s.f.	$10 S.F.	$1000
Consulting Fees			$500
		Subtotal	**$1,500**

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
Porch Floor (including under Faux Hardwood)	120 S.F.	$4 / S.F.	$480
Walls	685 S.F.	$4 / S.F.	$2,740
Baseboards / Molding / Trim	100 L.F.	$4 / L.F.	$400
Windows	3	$100 Each	$300
Ceilings	120 S.F.	$4 / S.F.	$480
Door Frames	2	$100 Each	$200
Consulting Fees			$1,000
		Subtotal	**$5,600**

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
Basement / Crawl Space	1000 s.f.	$8	$8000
Consulting Fees			$500
		Subtotal	**$8,500**
		Project Total	**15,600.00**

Appendix A

Asbestos Laboratory Analysis Data

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Attn: **Jamie Roche**
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Phone:	(860) 747-6181
Fax:	(860) 747-8822
Received:	03/24/14 10:00 AM
Analysis Date:	3/26/2014
Collected:	3/21/2014

Project: **01MH4.02 (10 EAST AVE, MILFORD)**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
032114-1A *241401005-0001*	1st floor - sheetrock	Brown/Gray Fibrous Homogeneous	10%	Cellulose	20% 70%	Gypsum Non-fibrous (other)	**None Detected**
032114-1B *241401005-0002*	1st floor - sheetrock	Brown/Gray Fibrous Homogeneous	8%	Cellulose	25% 67%	Gypsum Non-fibrous (other)	**None Detected**
032114-1C *241401005-0003*	1st floor - sheetrock	White Non-Fibrous Homogeneous			20% 80%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-2A *241401005-0004*	1st floor - joint compound	White Non-Fibrous Homogeneous	<1%	Cellulose	40% 60%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-2B *241401005-0005*	1st floor - joint compound	White Non-Fibrous Homogeneous	<1%	Cellulose	45% 55%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-2C *241401005-0006*	1st floor - joint compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
032114-3A *241401005-0007*	Living Rm - troweled ceiling texture	White Non-Fibrous Homogeneous			40% 60%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-3B *241401005-0008*	N.W. bedroom - troweled ceiling texture	White Non-Fibrous Homogeneous	<1%	Fibrous (other)	45% 55%	Ca Carbonate Non-fibrous (other)	**None Detected**

Analyst(s)
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Renaldo Drakes (20)

Gloria V. Oriol, Laboratory Manager
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
032114-3C *241401005-0009*	West bedroom - troweled ceiling texture	White Non-Fibrous Homogeneous			20% 80%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-4A *241401005-0010*	Bathroom - 12"x12" beige self-stick floor tile	Gray/Beige Non-Fibrous Homogeneous			30% 70%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-4B *241401005-0011*	Bathroom - 12"x12" beige self-stick floor tile	Gray/Beige Non-Fibrous Homogeneous			30% 70%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-4C *241401005-0012*	Bathroom - 12"x12" beige self-stick floor tile	Black Non-Fibrous Homogeneous			20% 80%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-5A *241401005-0013*	Bathroom - 12"x12" white floor tile (under self-stick)	Beige Non-Fibrous Homogeneous			30% 70%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-5B *241401005-0014*	Bathroom - 12"x12" white floor tile (under self-stick)	Beige Non-Fibrous Homogeneous			25% 75%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-5C *241401005-0015*	Bathroom - 12"x12" white floor tile (under self-stick)	White Non-Fibrous Homogeneous			20% 80%	Ca Carbonate Non-fibrous (other)		**None Detected**
032114-6A *241401005-0016*	Bathroom - beige linoleum (under plywood sub-floor)	Beige Fibrous Homogeneous	<1%	Cellulose	20% 65%	Ca Carbonate Non-fibrous (other)	**15%**	**Chrysotile**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
032114-6B *241401005-0017*	Bathroom - beige linoleum (under plywood sub-floor)						**Stop Positive (Not Analyzed)**
032114-6C *241401005-0018*	Bathroom - beige linoleum (under plywood sub-floor)						**Stop Positive (Not Analyzed)**
032114-7A *241401005-0019*	Bathroom - tar paper (under linoleum)	Brown Fibrous Homogeneous			90%	Non-fibrous (other)	**10% Chrysotile**
032114-7B *241401005-0020*	Bathroom - tar paper (under linoleum)						**Stop Positive (Not Analyzed)**
032114-7C *241401005-0021*	Bathroom - tar paper (under linoleum)						**Stop Positive (Not Analyzed)**
032114-8A *241401005-0022*	Bathroom - cement board walls	Gray Non-Fibrous Homogeneous	<1%	Cellulose	20% 80%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-8B *241401005-0023*	Bathroom - cement board walls	Gray Non-Fibrous Homogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**
032114-8C *241401005-0024*	Bathroom - cement board walls	Gray Fibrous Homogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
032114-9A *241401005-0025*	West bedroom - faux dark wood flooring	Black Non-Fibrous Homogeneous	`*	Cellulose	100%	Non-fibrous (other)	**None Detected**

Analyst(s)

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
032114-9B *241401005-0026*	West bedroom - faux dark wood flooring	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
032114-9C *241401005-0027*	West bedroom - faux dark wood flooring	Brown/Gray Non-Fibrous Homogeneous	6%	Synthetic	25% 69%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-10A *241401005-0028*	Front porch room - faux light wood flooring	Black Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
032114-10B *241401005-0029*	Front porch room - faux light wood flooring	Gray Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
032114-10C *241401005-0030*	Front porch room - faux light wood flooring	Gray/Tan Non-Fibrous Homogeneous	5%	Glass	25% 70%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-11A *241401005-0031*	Roof - beige asphalt roof shingle	Black Fibrous Homogeneous	15%	Glass	85%	Non-fibrous (other)	**None Detected**
032114-11B *241401005-0032*	Roof - beige asphalt roof shingle	Black Fibrous Homogeneous	15%	Glass	85%	Non-fibrous (other)	**None Detected**
032114-11C *241401005-0033*	Roof - beige asphalt roof shingle	Black Fibrous Homogeneous	10%	Glass	90%	Non-fibrous (other)	**None Detected**

Analyst(s)

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Project: **01MH4.02 (10 EAST AVE, MILFORD)**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
032114-12A *241401005-0034*	Roof - vent stack flashing tar	Black Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**
032114-12B *241401005-0035*	Roof - vent stack flashing tar	Black Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**
032114-12C *241401005-0036*	Roof - vent stack flashing tar	Black Non-Fibrous Homogeneous	45%	Cellulose	55%	Non-fibrous (other)	**None Detected**
032114-13A *241401005-0037*	Roof - felt paper under asphalt shingles	Black Fibrous Homogeneous	55%	Cellulose	45%	Non-fibrous (other)	**None Detected**
032114-13B *241401005-0038*	Roof - felt paper under asphalt shingles	Black Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
032114-13C *241401005-0039*	Roof - felt paper under asphalt shingles	Black Fibrous Homogeneous	55%	Cellulose	45%	Non-fibrous (other)	**None Detected**
032114-14A *241401005-0040*	Attic - flue penetration sealant (white)	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
032114-14B *241401005-0041*	Attic - flue penetration sealant (white)	White Non-Fibrous Homogeneous			20% 80%	Ca Carbonate Non-fibrous (other)	**None Detected**

Analyst(s)

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
032114-14C *241401005-0042*	Attic - flue penetration sealant (white)	White Non-Fibrous Homogeneous	<1%	Cellulose	45% 55%	Ca Carbonate Non-fibrous (other)	**None Detected**
032114-15A *241401005-0043*	1st floor - sheetrock joint tape	White Non-Fibrous Homogeneous	20%	Glass	80%	Non-fibrous (other)	**None Detected**
032114-15B *241401005-0044*	1st floor - sheetrock joint tape	White Fibrous Homogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**
032114-15C *241401005-0045*	1st floor - sheetrock joint tape	White Fibrous Homogeneous	99%	Cellulose	1%	Non-fibrous (other)	**None Detected**

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OrderID: 371403730

24140100 5

Asbestos Lab Services Chain of Custody

EMSL Order Number(Lab Use Only):

Wallingford, CT
4 Fairfield Blvd
Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5976

Company: Loureiro Engineering Associates, Inc
Street: 100 Northwest Dr
City/State/Zip: Plainville, CT 06062
Report To (Name): Jamie Roche
Telephone: 860-747-6181
Fax: 860-747-8822
Email Address: jaroche@loureiro.com
Project Name/Number: 01MH4.02 (10 East Ave, Milford)
Please Provide Results: Email | Purchase Order: | State Samples Taken: CT | Connecticut Samples: ☐ Commercial ☒ Residential

EMSL-Bill to: ☑ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

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 ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM - Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☒ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Brett Nicholas

Samplers Signature: [signature]

Sample #	Sample Description	~~HA # (Bulk)~~ (Area) (Air)	Date/Time Sampled
032114-1A	Sheetrock	1st Floor	3-21-14
" -1B	↓	↓	↓
" -1C	↓	↓	↓
" -2A	Joint Compound	↓	↓
" -2B	↓	↓	↓
" -2C	↓	↓	↓

Client Sample # (s): 1A – 15C Total # of Samples: 45

Relinquished (Client): [signature] Date: 3-21-14 Time: FedEx

Received (Lab): Date: Time:

Comments/Special Instructions:

Controlled Document – Asbestos Lab Services COC – A1.0 – 11/23/2009

Page 1 of 3 Pages

RECEIVED
MAR 24 2014
By [signature] 10:00am

Fedex 8005280 16800

http://www.emsl.com/COC_Print.cfm 1/20/2012

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

241401005

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

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
032114-3A	Troweled Ceiling Texture	Living Rm	3-21-14
" -3B		N.W. Bedroom	
" -3C		west bedroom	
" -4A	12"x12" Beige Self-Stick Floor Tile	Bathroom	
" -4B			
" -4C			
" -5A	12"x12" white Floor Tile (under self-stick)		
" -5B			
" -5C			
" -6A	Beige Linoleum (under plywood sub-floor)		
" -6B			
" -6C			
" -7A	Tar Paper (under Linoleum)		
" -7B			
" -7C			
" -8A	Cement Board walls		
" -8B			
" -8C			
" -9A	Faux Dark Wood Flooring	west bedroom	
" -9B			
" -9C			
" -10A	Faux Light Wood Flooring	front porch room	
" -10B			
" -10C			

***Comments/Special Instructions:**

Page 2 of 3 pages

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By 10:00am

Controlled Document – Asbestos COC – R5 – 1/11/2012

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 241401005

EMSL ANALYTICAL, INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

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
032114-11A	Beige Asphalt Roof Shingle	Roof	3-21-14
" -11B	↓	↓	↓
" -11C	↓	↓	↓
" -12A	Vent Stack Flashing Tar	↓	↓
" -12B	↓	↓	↓
" -12C	↓	↓	↓
" -13A	Felt Paper under Asphalt Shingles	↓	↓
" -13B	↓	↓	↓
" -13C	↓	↓	↓
" -14A	Flue Penetration Sealant (white)	Attic	↓
" -14B	↓	↓	↓
" -14C	↓	↓	↓
" -15A	Sheetrock Joint Tape	1st Floor	↓
" -15B	↓	↓	↓
" -15C	↓	↓	↓

***Comments/Special Instructions:**

Page 3 of 3 pages

RECEIVED
MAR 24 2014
By 10:00am

Controlled Document – Asbestos COC – R5 – 1/11/2012

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

Order ID:	371403730
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:	03/21/2014
Received:	03/24/2014
Analyzed:	03/25/2014

Proj: 01MH4.03 (10 East Ave, Milford)

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

Lab Sample Number: **Client Sample ID:** **Sample Location:**	**371403730-0001** **032114-Swab-1** **Basement**				
Spore Types	Category	-	-	-	-
Agrocybe/Coprinus	-				
Alternaria	-				
Ascospores	-				
Aspergillus/Penicillium	-				
Basidiospores	-				
Bipolaris++	-				
Chaetomium	-				
Cladosporium	*Low*				
Curvularia	-				
Epicoccum	-				
Fusarium	-				
Ganoderma	-				
Myxomycetes++	-				
Paecilomyces	-				
Rust	-				
Scopulariopsis	-				
Stachybotrys	-				
Torula	-				
Ulocladium	-				
Unidentifiable Spores	-				
Zygomycetes	-				
Yeast	*Low*				
Fibrous Particulate	-				
Hyphal Fragment	-				
Insect Fragment	Rare				
Pollen	-				

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.

No discernable field blank was submitted with this group of samples.

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

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: 03/25/2014 16:02:30

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

371403730

Microbiology Laboratory Chain of Custody

EMSL Order Number(Lab Use Only):

EMSL ANALYTICAL INC.

Wallingford, CT
4 Fairfield Blvd
Wallingford, CT 06492
PHONE: (203) 264-5948
FAX: (203) 264-5978

Company: Loureiro Engineering Associates, Inc	EMSL-Bill to: ☑ Same ☐ 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: 860-747-6181	Email Address: jaroche@loureiro.com
Project Name/Number: 01MH4.03 (10 East Ave, 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

Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

Non Culturable Air Samples (Spore Traps)

- M001 Air-O-Cell
- M049 BioSIS
- M030 Micro 5
- M173 Allegro M2
- M003 Burkard
- M174 MoldSnap
- M004 Allergenco
- M043 Cyclex
- M176 Relle Smart
- M032 Allergenco-D
- M002 Cyclex-d
- M130 Via-Cell
- M172 Versa Trap

Other Microbiology Test Codes

- M041 Fungal Direct Examination
- M005 Viable Fungi ID and Count
- M006 Viable Fungi ID and Count (Speciation)
- M007 Culturable Fungi
- M008 Culturable Fungi (Speciation)
- M009 Gram Stain Culturable Bacteria
- M010 Bacterial Count and ID – 3 Most Prominent
- M011 Bacterial Count and ID – 5 Most Prominent
- M013 Sewage Contamination in Buildings
- M014 Endotoxin Analysis
- M015 Heterotrophic Plate Count
- M180 Real Time Q-PCR-ERMI 36 Panel
- M018 Total Coliform (Membrane Filtration)
- M020 Fecal *Streptococcus* (Membrane Filtration)
- M210-215 *Legionella* Detection
- M026 Recreational Water Screen
- M027 Mycotoxin Analysis
- M029 *Enterococci*
- M019 Fecal Coliform
- M133 MRSA Analysis
- M028 *Cryptococcus neoformans* Detection
- M120 *Histoplasma capsulatum* Detection
- M033-39 Allergen Testing
- M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
- Other See Analytical Price Guide

Preservation Method (Water):

Name of Sampler: Brett Nicholes

Signature of Sampler:

Sample #	Sample Location	Sample Type	Test Code	~~Volume~~/Area	Date/Time Collected
032114-Swab-1	Basement	Swab	M041	Basement	3-21-14

Client Sample # (s):	1	Total # of Samples:	1
Relinquished (Client):		Date: 3-21-14	Time: FedEx
Received (Client):	FX	Date: 3/24/14	Time: 900

Comments/Special Instructions:

2014 MAR 24 A 10:47
EMSL
CINNAMINSON, N.J.

8007 8257 8653

Appendix C

Staff and Laboratory Certifications

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 Actio 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

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

PROFESSION
LEAD INSPECTOR

SIGNATURE

COMMISSIONER

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

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

EMSL ANALYTICAL, INC. - 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 **28th** DAY OF **September 2012**

Registration No.

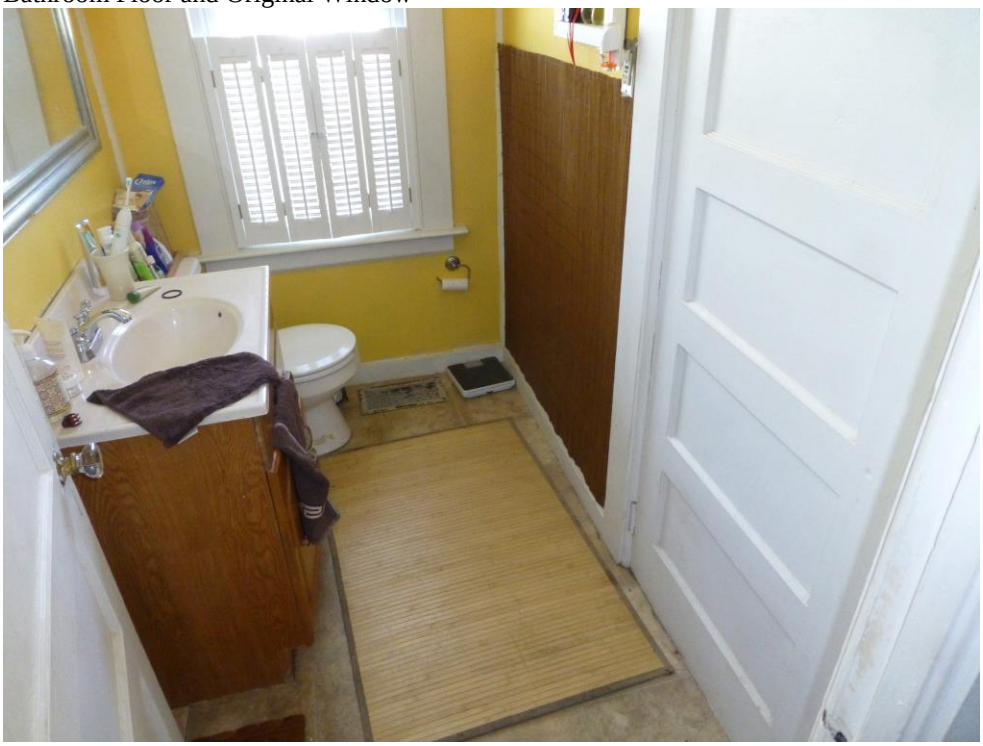
PH-0322

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

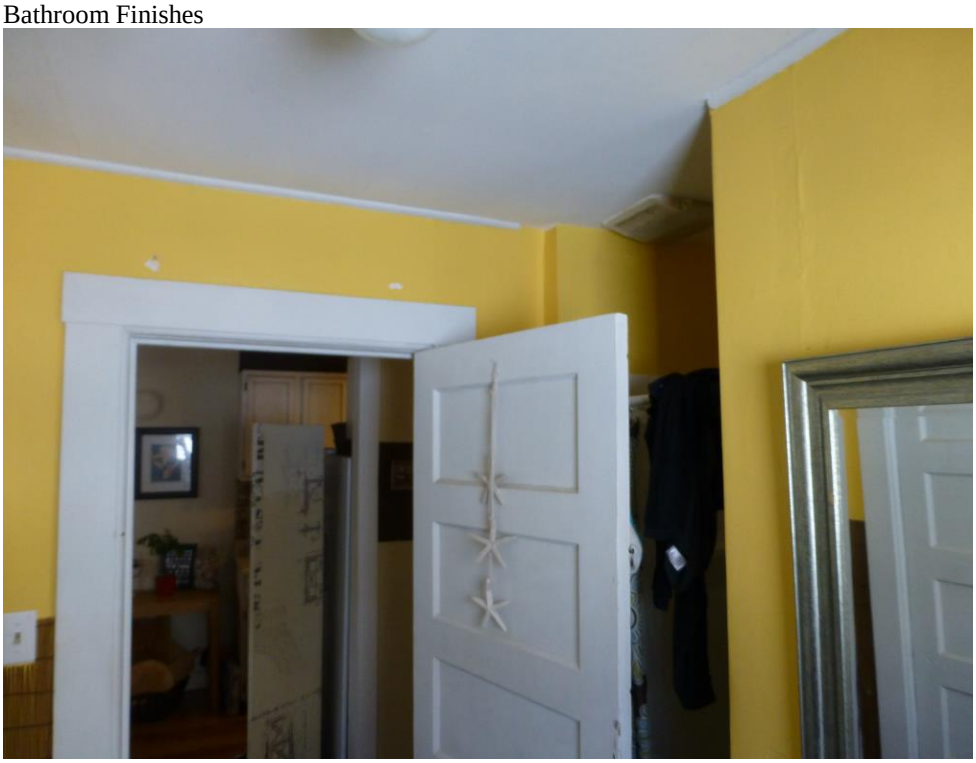
Appendix D

Pertinent Site Photos

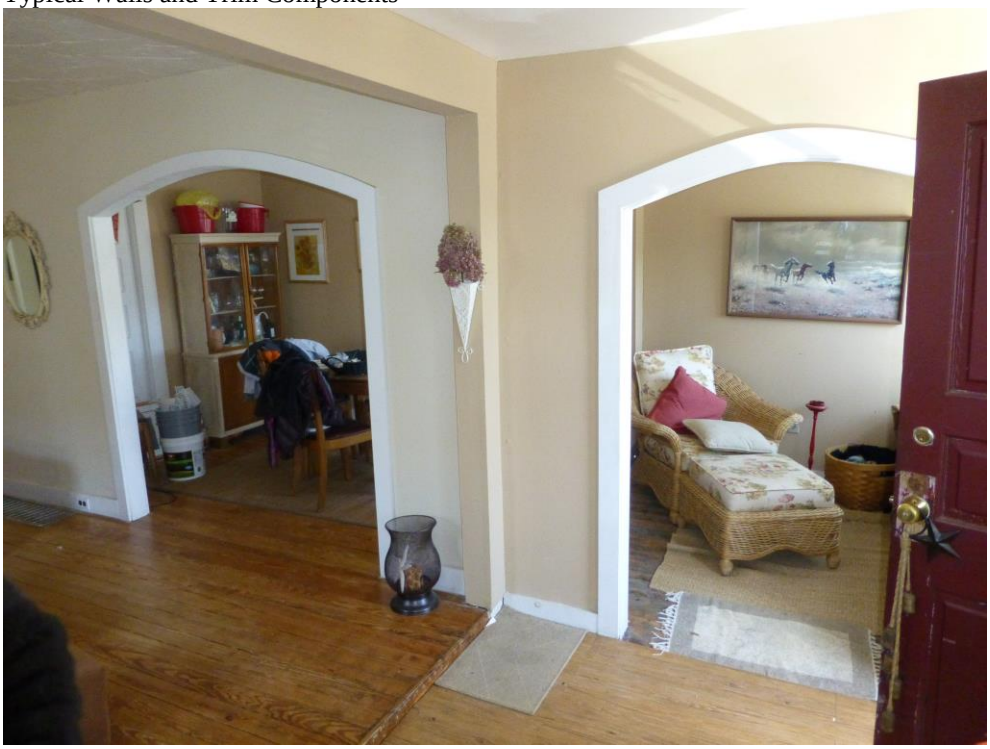
Bathroom Floor and Original Window



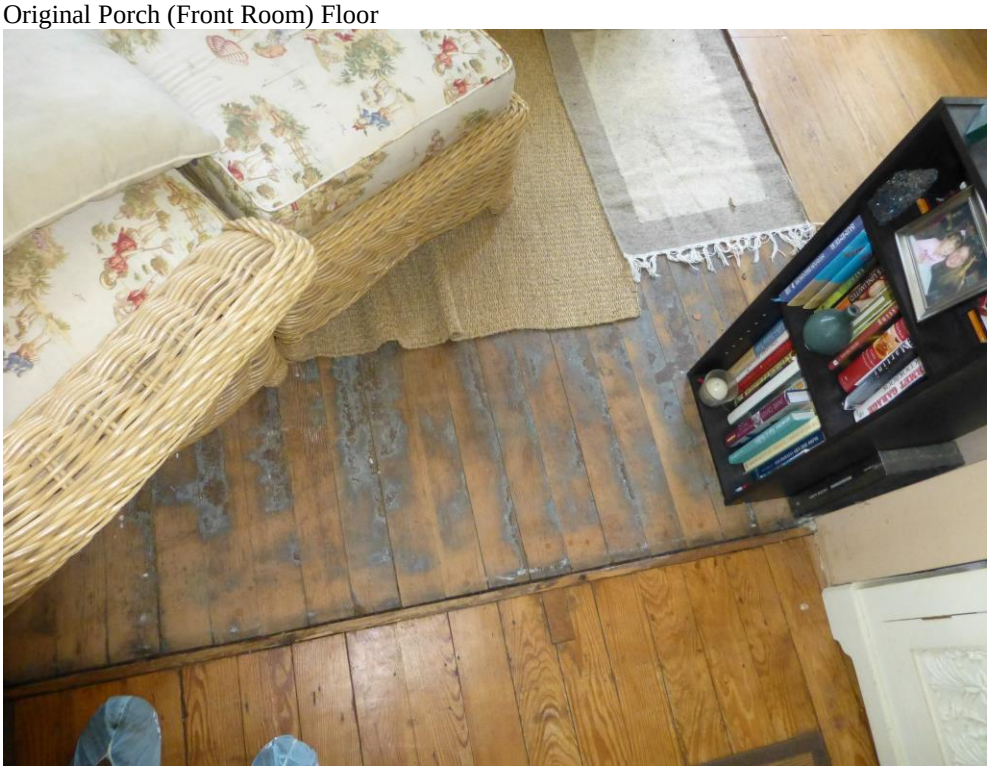
Bathroom Finishes



Typical Walls and Trim Components



Original Porch (Front Room) Floor



Typical Framed Ceilings

Basement / Crawl Space

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-14-1191**

Date Recieved: **12/10/2014**

Job Location: **10 EAST AVE**

Permit For: **SANDY - Residential Repair**

Contractor's Name:

Phone:

Contractor's Address:

City:

State:

Zip Code:

State Lic. No:

(Home)Owner's Name: **DILAURO MELISSA**

Phone:

(Home)Owner's Address: **10 EAST AV**

Work Description: **Elevate existing single story house in place to FF of 16.83'. Foundation wall with 4 vents, garage. New 10'x7'-8" rear deck with stairs and new front 3'-4"x11'-9" deck with stairs. Second floor: Entry, living rm, family rm, dining rm, kitchen, full bath, 2-bedrooms.**

Total Value Of Work To Be Performed: **$180,000.00**

Structure Size:	0.00	0.00	0.00
	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	12/10/2014	(203) 795-5656
	Applicant	Date	Telephone No.

Estimated Construction Costs / Permit Fees

		Payment Date	Amount Paid	Check No
Total Project Cost :	$180,000.00			
Total Permit Fee:	$46.80			
Total Permit Fee Paid:	$0.00			

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

VALUE: **$180000.00**

FEE PAID: **$60.00**

DATE ISSUED: **12/10/2014**

Permit No. **Z-14-402**

Zoning Permit

PERMIT FOR: **Site Improvements**

This certifies that **DILAURO MELISSA**

has permission to conduct activities at: **10 EAST AVE**

as follows: **Elevate existing single story house in place to FF of 16.83'. Foundation wall with 4 vents, garage. New 10'x7'-8" rear deck with stairs and new front 3'-4"x11'-9" deck with stairs. Second floor: Entry, living rm, family rm, dining rm, kitchen, full bath, 2-bedrooms.**

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 autohority.

Restrictions:

Zoning Enforcement Official

12/10/2014

Date

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

Appendix B

DECD/SHPO/DOH Professional Certification Form

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

Property: 10 East Avenue, Milford, CT

Application Number: 1275

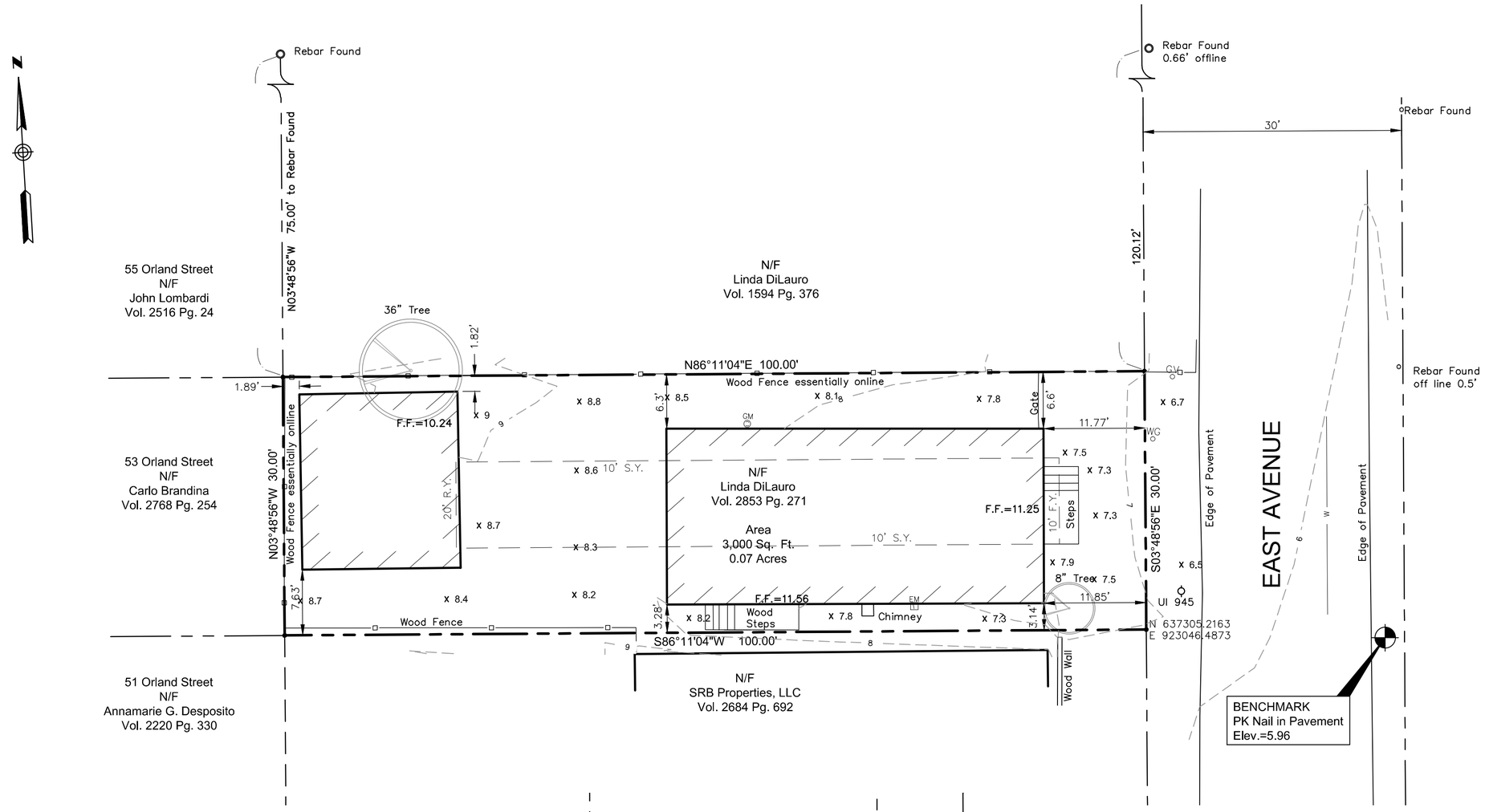
"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."

Signature of Applicant	12/12/2014 Date
Hermia Delaire Name of Applicant (print or type)	DOH CDBG-DR Program Manager Title
Signature of Professional Engineer	12/12/2014 Date
Edward G. Shelomis, P.E., L.S. Name of Professional Engineer (print or type)	9266 P.E. Number

Affix P.E. Stamp Here

STATE OF CONNECTICUT
EDWARD G. SHELOMIS
9266
LICENSED
PROFESSIONAL ENGINEER



NOTES:

1. This map and survey have been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and "The Minimum Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors on September 26, 1996.

2. The type of survey performed and the mapped features depicted hereon are in accordance with the requirements of a Property/Boundary and Topographic Survey.

3. The boundary determination / opinion is based upon a Resurvey of map reference 6A.

4. This map conforms to Class A-2 horizontal accuracy, Class T-2 Topographic accuracy and V-2 Vertical accuracy.

5. The north arrow, bearings and elevations are based upon the Connecticut State Coordinate System N.A.D. 1983 (2011)(EPOCH 2010.00) and N.A.V.D 1988 respectively, derived from Static GPS observations made on April 24 17, 2014.

6. Map References:

   A. "Map of Lots for sale be George E. Haskins, Bay-view, Milford, Conn.," dated June 30, 1918 prepared by H.G. Clark; map on file in the Milford Land Records as map E-330.

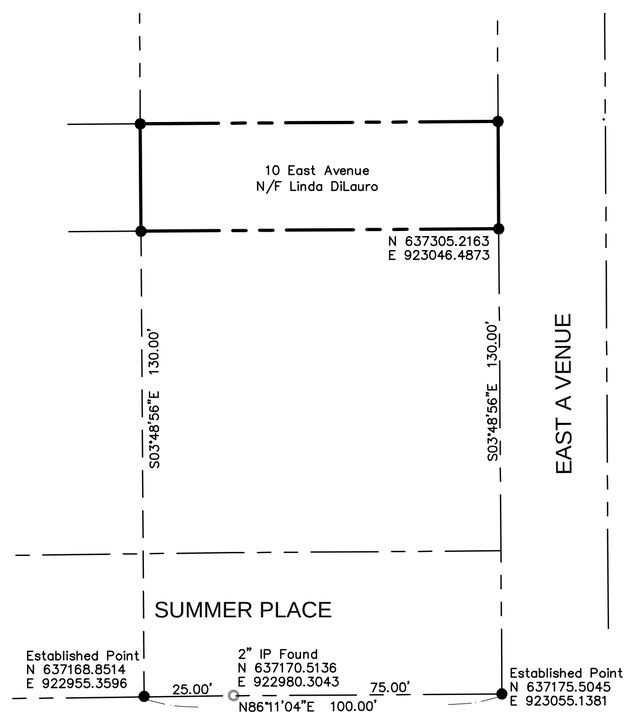
7. Parcel is located in Flood Zone AE (base flood elevation determined to be 11) as depicted on "FIRM, Flood Rate Insurance Map, New Haven County, Connecticut, (all jurisdictions), Panel 534 of 635, Milford, City of," Map Number 09003C0534J, map revised July 8, 2013.

8. Parcel is depicted on the City of Milford Tax Assessor's Map 38, Block 559 as Lot 5.

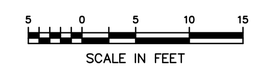
9. Parcel is zoned R-5 and is subject to the following zoning requirements:

Minimum Lot Size	5,00 Square Feet
Minimum Frontage	50 Feet
Minimum Depth	70 Feet
Front Yard	10 Feet or Actual which ever is greatest
Side Yard	10 Feet one side, 5 Feet the other side
Rear Yard	20'
Maximum Height	3 Stories

10. The underground utilities depicted hereon have been compiled from observable evidence, such as manholes, catch basins and water gates. These location must be considered as approximate in nature. Additionally, other such features may exist on the sites, the existence of which is unknown to Loureiro Engineering Associates, Inc. (LEA). The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to construction. Call Be-For-You-Dig at 1-800-922-4455 or 811.



DETAIL
Scale: 1"=30'



LEGEND

- Property Corner
- Property Line
- Setback Line
- Existing Gas Line
- Existing Watermain
- Existing Sanitary Sewer

To my knowledge and belief, this map is substantially correct as noted hereon.

Edward G. Shelomis, L.S. #9266

REV.	DESCRIPTION OF REVISION	DATE	APPR.

Loureiro Engineering Associates, Inc.
100 Northwest Drive • Plainville, Connecticut 06062
Phone: 860-747-6181 • Fax: 860-747-8822
An Employee Owned Company • www.Loureiro.com

SCALE	COMM. NO.	DATE	DATE
1" = 10'	01MH402	5/23/2014	5/23/2014
DRAWN BY		APPROVED BY	
P.M.C.		E.G.S.	

PROPERTY/BOUNDARY & TOPOGRAPHIC SURVEY
10 EAST AVENUE, MILFORD, CONNECTICUT

EXISTING CONDITIONS

DRAWING 1

SHEET NO. 1 NO. OF SHEETS 1

G:\SURVEY PROJECTS\SUMMER1 DONLD EAST AVENUE\2007 SURVEY 10 EAST AVE.DWG Tab: EXIST. COND. Saved: 5/29/2014 3:55 PM Plotted: 5/29/2014 3:55 PM

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