



Consulting
Engineers and
Scientists

February 3, 2016
Project 1403900-26-1000

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

Re: National Environmental Policy Act (NEPA) Statutory Checklist for 888 Ocean Avenue, West Haven, CT

Dear Mr. Folino,

GEI Consultants, Inc. (GEI), at the request of Eagle Environmental Inc. (Eagle), has completed National Environmental Policy Act (NEPA) requirements associated with the rehabilitation of the above-listed property under the HUD-DR Program. GEI conducted a site-visit, reviewed information specific to the proposed, funded rehabilitation activities associated with the property, and completed a NEPA Statutory Checklist. Based on the information gathered, it appears that this project cannot convert to Exempt because one or more statutes/authorities requires consultation or mitigation. Because the property is within a floodzone and located within the designated coastal zone, Connecticut Department of Energy and Environmental Protection (CTDEEP) program-wide General Permit and local zoning review are required for the project. Complete consultation and lead-based paint, asbestos, and mold mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per ss58.70 and 58.71 before drawing down funds.

The completed NEPA Checklist, photos, environmental database report, and supporting maps are attached.

If you have any questions, please feel free to contact me at 860.368.5340.

Sincerely,

GEI CONSULTANTS, INC.

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

Barry Giroux, P.E., LEP
Senior Consultant

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

Kimberly Bradley
Project Manager/Senior Ecologist

Table of Contents

NEPA Statutory Checklist	1
Photo Log	6
Figures	
Figure 1: Site Detail	8
Figure 2: USGS Topographic map	9
Figure 3: FEMA FIRM	10
Figure 4: National Wetlands Inventory	11
Figure 5: Coastal Resources	12
Figure 6: Aquifer Protection Area	13
Figure 7: Natural Diversity Database and Critical Habitats	14
Figure 8: Wild and Scenic Rivers	15
Figure 9: NRCS Soils	16
Attachments	
Attachment A: Letter from State Historic Preservation Office	17
Attachment B: Professional Certification Form for General Permit Application	18
Attachment C: USFWS Official Species List	19
Attachment D: Federally Listed Endangered and Threatened Species in Connecticut	25
Attachment E: USFWS No Species Present Letter	27
Attachment F: Environmental Database Report	28
Attachment G: List of Distressed Municipalities	39

PHOTO LOG

NEPA Statutory Checklist

888 Ocean Avenue

West Haven, CT

Photo 1: Front of property; facing north.



Photo 2: Long Island Sound viewed from property; facing northeast.



Photo 3: Eastern side of property; facing north.



Photo 4: Rear of property; facing northwest.



Photo 5: Rear of property; facing east.



Photo 6: Western portion of property; facing northwest.





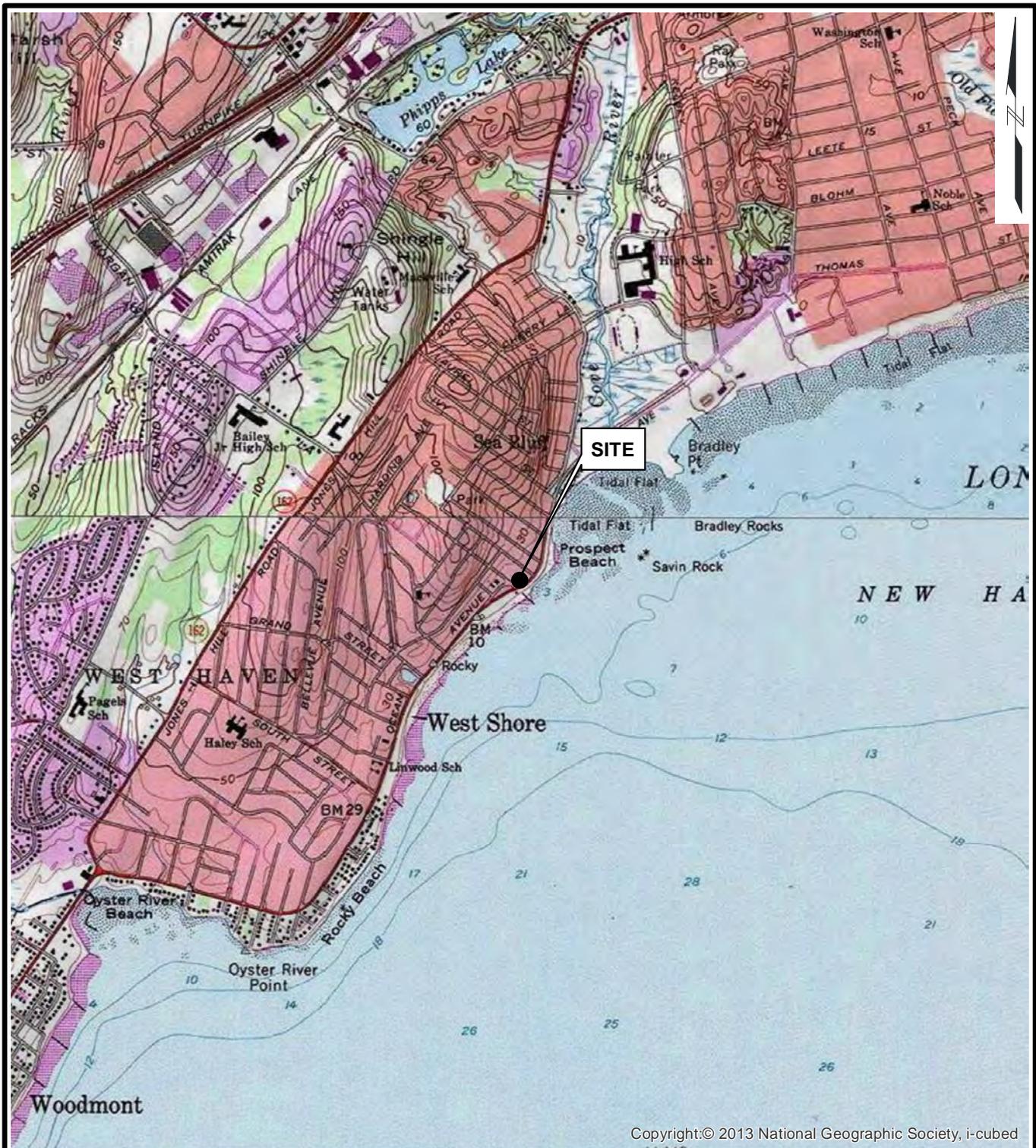
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SOURCE:
1. 2011 ESRI WORLD IMAGERY



SCALE: 1" = 100'

<p>National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment 888 Ocean Avenue West Haven, Connecticut</p>		<p>SITE DETAIL</p>
<p>Eagle Environmental, Inc. Terryville, Connecticut</p>	<p>Project 1403900</p>	



Copyright:© 2013 National Geographic Society, i-cubed

SOURCE:

1. USGS TOPOGRAPHIC MAP WOODMONT AND NEW HAVEN QUADRANGLES ACCESSED VIA ARCGISONLINE.COM.

0 2,000 4,000



SCALE: 1" = 2000'

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
888 Ocean Avenue
West Haven, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



USGS TOPOGRAPHIC MAP

Project 1403900

September 2014

Fig. 2

NOTES TO USERS

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

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

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

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

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

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

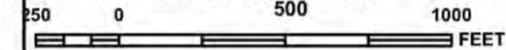
Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and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

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

City of West Haven
090092



MAP SCALE 1" = 500'



NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0552J

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

PANEL 552 OF 635
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
WEST HAVEN, CITY OF	090092	0552	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**
09009C0552J
MAP REVISED
JULY 8, 2013
Federal Emergency Management Agency

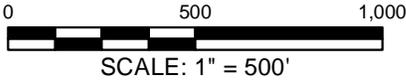
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program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



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

SOURCE:

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



LEGEND

- Wetland Type**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Pond

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
 888 Ocean Avenue
 West Haven, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

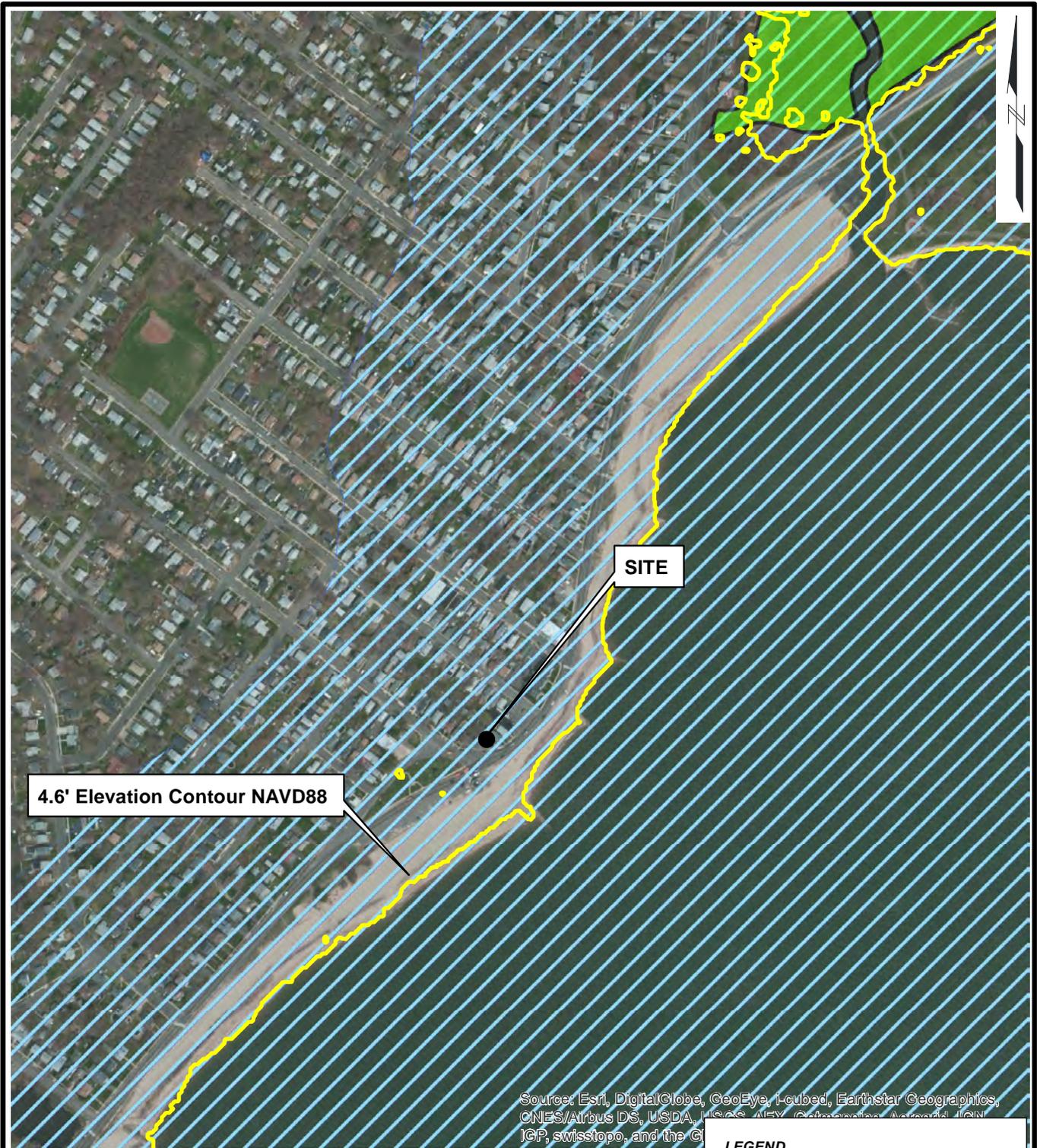


NATIONAL WETLANDS INVENTORY (NWI)

Project 1403900

September 2014

Fig. 4



4.6' Elevation Contour NAVD88

SITE

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

SOURCE:

1. TIDAL WETLANDS (1990s)/COASTAL AREAS FROM CT DEEP GIS.
2. CITY OF WEST HAVEN COASTAL JURISDICTION CONTOUR DERIVED FROM CT 10 FT DEM LIDAR, UCONN CLEAR.



SCALE: 1" = 500'

LEGEND

- Coastal Jurisdiction Contour
- Tidal Wetland
- ▨ Coastal Boundary

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
888 Ocean Avenue
West Haven, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

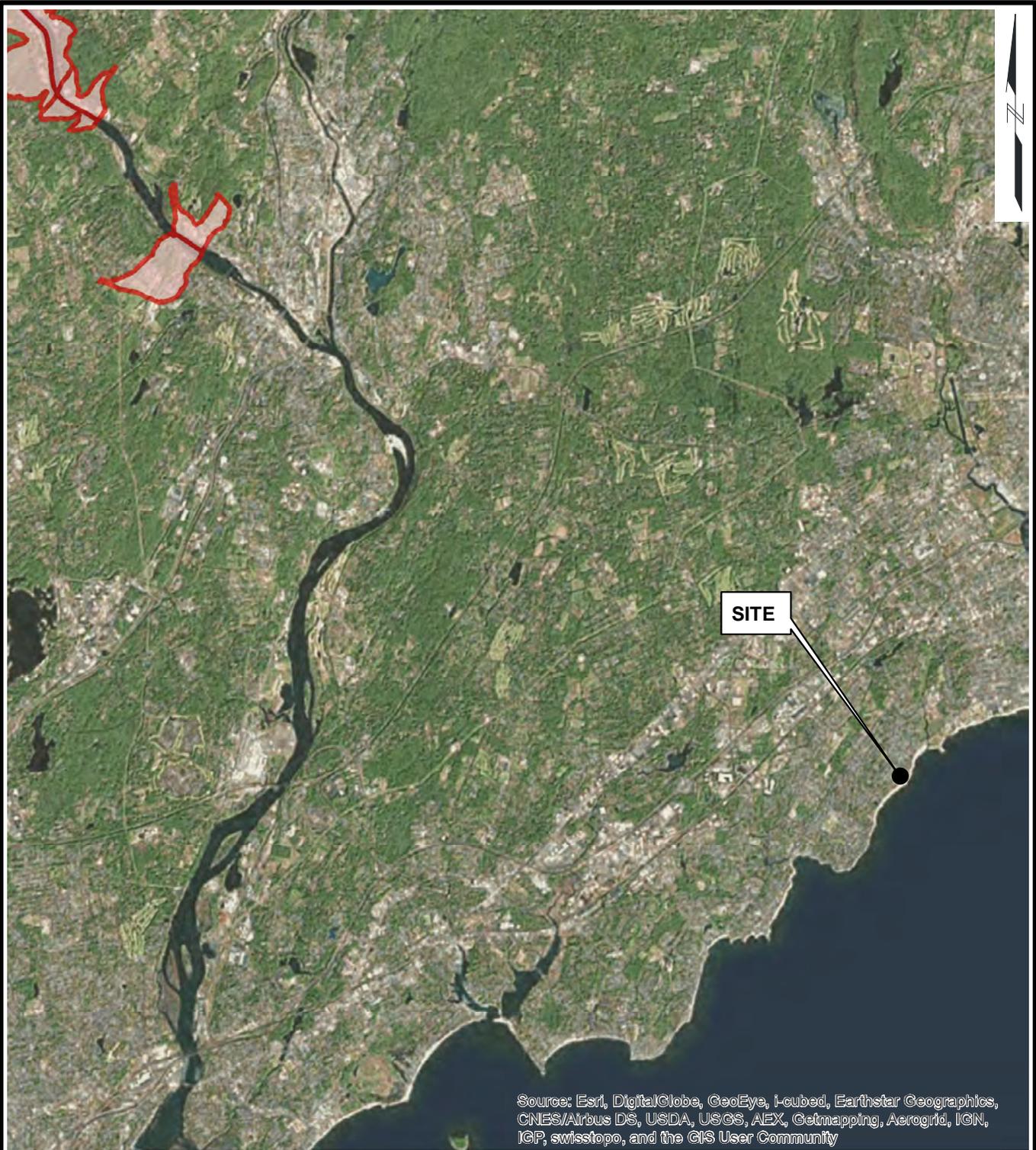


Project 1403900

COASTAL RESOURCES

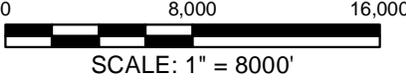
September 2014

Fig. 5



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

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



LEGEND

 Final Adopted Aquifer Protection

National Environmental Policy Act (NEPA) Statutory
 Checklist and Environmental Assessment
 888 Ocean Avenue
 West Haven, Connecticut

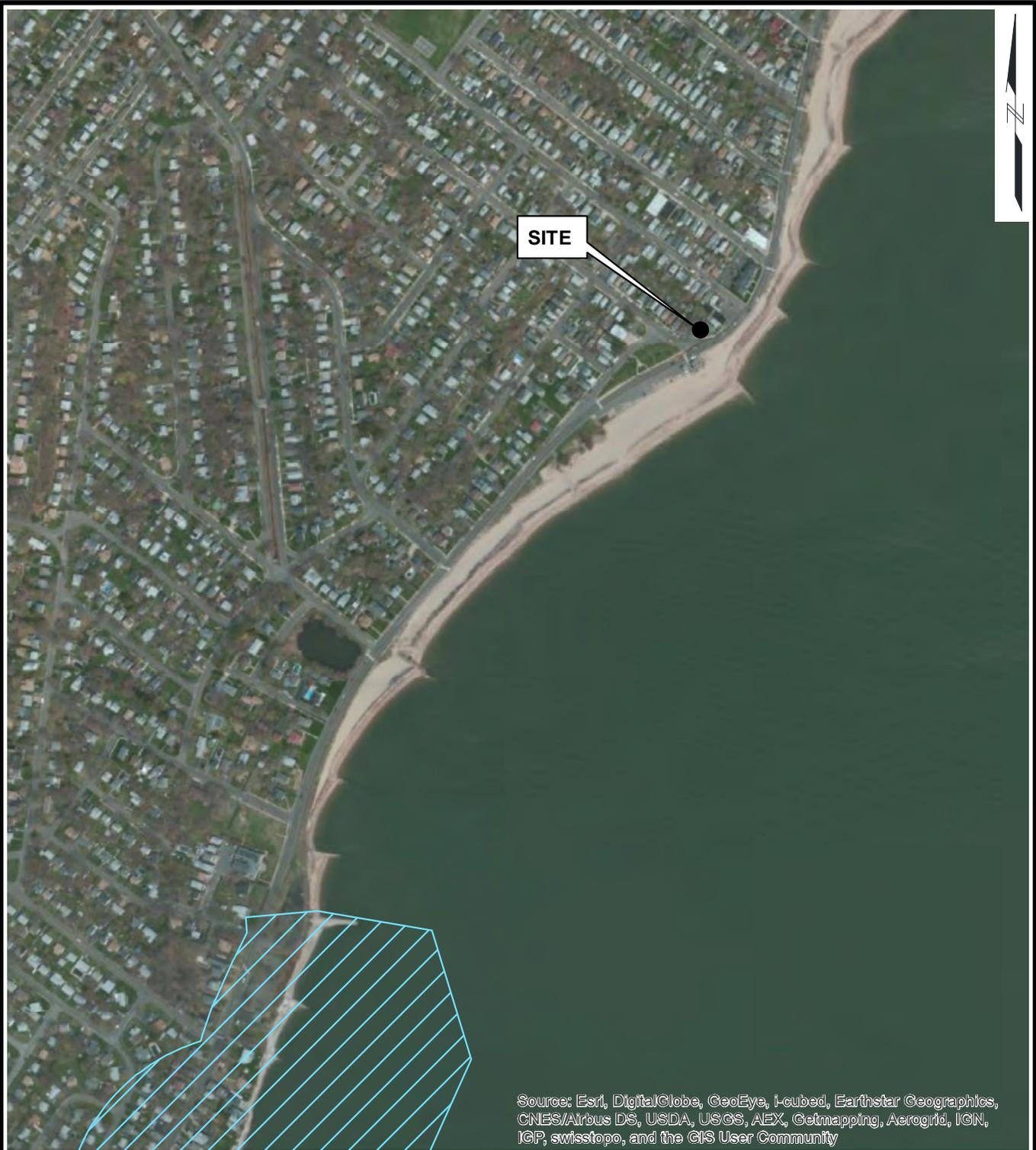
Eagle Environmental, Inc.
 Terryville, Connecticut



Project 1403900

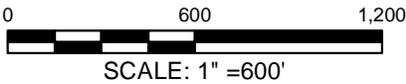
**AQUIFER PROTECTION
 AREA**

September 2014 Fig. 6



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

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



LEGEND

 Natural Diversity Area

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
888 Ocean Avenue
West Haven, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



Project 1403900

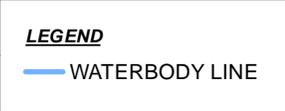
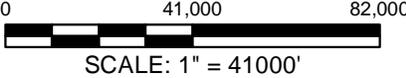
**NATURAL DIVERSITY
DATABASE AREA AND
CRITICAL HABITAT**

September 2014 Fig. 7



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

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



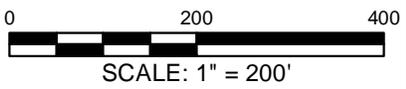
<p>National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment 888 Ocean Avenue West Haven, Connecticut</p>		<p>DISTANCE TO WILD AND SCENIC RIVER</p>
<p>Eagle Environmental, Inc. Terryville, Connecticut</p>		



Source: Esri, Digital
CNES/Airbus DS, U
IGP, swisstopo, and

SOURCE:

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



LEGEND

Soil Map Unit

Symbol, Description

- 229B Agawam-Urban land complex, 0 to 8 percent slopes
- 260C Charlton-Urban land complex, 8 to 15 percent slopes
- 260D Charlton-Urban land complex, 15 to 25 percent slopes
- 301 Beaches-Udipsamments complex, coastal
- W Water

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
888 Ocean Avenue
West Haven, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



NRCS SOILS

Project 1403900

September 2014

Fig. 9

1739
MG



Department of Economic and
Community Development



December 1, 2014

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

received
12-3-14

RE: Applicant #1739, 888 Ocean Avenue, West Haven, CT

Dear Ms. Delaire:

The State Historic Preservation Office (SHPO) has reviewed the above-named project pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966.

The property is located within the National Register eligible historic district; however, in the opinion of the SHPO, the proposed undertaking will have no adverse effect upon historic district.

This office appreciates the opportunity to have reviewed and commented upon the project.

For further information, please contact Julie Carmelich at (860) 256-2762.

Sincerely:

Mary B. Dunne
Deputy State Historic Preservation Officer

State Historic Preservation Office

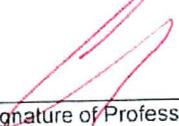
One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender

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: 888 Ocean Ave. West Haven, CT	
Application Number: 201405290-FM	
"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief.	
I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."	
 Signature of Applicant	2/10/2014 Date
Hermia Delaire Name of Applicant (print or type)	CDBG-DR Program Manager Title
 Signature of Professional Engineer	8/11/15 Date
ANDREW J KRAR Name of Professional Engineer (print or type)	22052 P.E. Number
	Affix P.E. Stamp Here
	



United States Department of the Interior



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

Consultation Tracking Number: 05E1NE00-2014-SLI-0538

August 29, 2014

Project Name: 1739 - Hill

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: 1739 - Hill

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-0538

Project Type: ** Other **

Project Description: 888 Ocean Avenue
West Haven, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 1739 - Hill

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-72.9648604 41.2477409, -72.9649061 41.2476943, -72.96457 41.2475133, -72.964564 41.2475083, -72.9645603 41.2475014, -72.9645596 41.2474937, -72.9645619 41.2474862, -72.9645669 41.2474802, -72.9645738 41.2474765, -72.9645815 41.2474758, -72.964589 41.2474781, -72.9649485 41.2476717, -72.9649542 41.2476763, -72.9649579 41.2476827, -72.964959 41.24769, -72.9649574 41.2476972, -72.9649533 41.2477033, -72.9648782 41.2477799, -72.9648709 41.2477846, -72.9648623 41.2477858, -72.9648539 41.2477832, -72.9644462 41.2475493, -72.9644404 41.2475442, -72.9644369 41.2475372, -72.9644364 41.2475294, -72.9644389 41.247522, -72.964444 41.2475162, -72.964451 41.2475127, -72.9644588 41.2475122, -72.9644662 41.2475147, -72.9648604 41.2477409)))

Project Counties: New Haven, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 1739 - Hill

Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	Status	Has Critical Habitat	Condition(s)
Roseate tern (<i>Sterna dougallii dougallii</i>) Population: northeast U.S. nesting pop.	Endangered		



United States Department of Interior
Fish and Wildlife Service

Project name: 1739 - Hill

Critical habitats that lie within your project area

There are no critical habitats within your project area.

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

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

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

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

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



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

January 7, 2014

To Whom It May Concern:

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

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

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

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

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office



DATABASE REPORT



Project Property: 1739 888 Ocean Ave., West Haven
888 Ocean Ave
W Haven CT 06516

P.O. Number:

Report Type: Screen Report

Order #: 20140829029

Requested by: GEI Consultants Inc.

Date: August 29, 2014

Ecolog ERIS Ltd.
Environmental Risk Information
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Table of Contents

Table of Contents.....	1
Executive Summary.....	2
Executive Summary: Report Summary.....	3
Executive Summary: Site Report Summary - Project Property.....	5
Executive Summary: Site Report Summary - Surrounding Properties.....	6
Executive Summary: Summary by Data Source.....	7
Map.....	9
Aerial.....	10
Detail Report.....	11
Unplottable Summary.....	27
Unplottable Report.....	30
Appendix: Database Descriptions.....	108
Definitions.....	115

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Executive Summary

Property Information:

Project Property: 1739 888 Ocean Ave., West Haven
888 Ocean Ave W Haven CT 06516

P.O. Number:

Coordinates:

Latitude: 41.247604
Longitude: -72.964668
UTM Northing: 4,568,241.53
UTM Easting: 670,537.08
UTM Zone: UTM Zone 18T

Elevation: 18 FT

Order Information:

Order No.: 20140829029
Date Requested: 29/08/2014
Requested by: GEI Consultants Inc.
Report Type: Screen Report

Ancillary Products:

Executive Summary: Report Summary

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

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

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

Additional Environmental Records

Federal

FINDS/FRS	Y	0	0	1
TRIS	Y	0	0	0
HMIRS	Y	0	0	0
NCDL	Y	0	0	0
ODI	Y	0	0	0
IODI	Y	0	0	0

State

LIENS	Y	0	0	0
CT PROPERTY	Y	0	0	0
SPILLS	Y	0	8	8
CT MANIFEST	Y	0	0	0
CT MANIFEST TSDF	Y	0	0	0
CT HAZ HANDLERS	Y	0	0	0

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

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

Total: 0 8 10

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist mi</i>	<i>Elev diff ft</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist mi</i>	<i>Elev Diff ft</i>	<i>Page Number</i>
1	FINDS/FRS	OCEAN & DAWSON AVE.	OCEAN & DAWSON AVE. WEST HAVEN CT 06516	W/0.03	1	11
1	SPILLS		ocean ave and dawson ave West Haven CT	W/0.03	1	11
2	SPILLS		34 Arlington St. West Haven CT 06516-6401	NNW/0.06	16	13
3	ERNS		18 PROSPECT AVENUE WEST HAVEN CT 06516	NNE/0.07	9	14
3	SPILLS		18 Prospect Ave. West Haven CT 06516-6446	NNE/0.07	9	16
4	SPILLS		ocean ave and prospect street West Haven CT	NE/0.08	-3	17
5	SPILLS		51 dawson ave WEST HAVEN CT 06516-6409	WNW/0.08	18	19
6	SPILLS		ocean ave and laurel place WEST HAVEN CT	WSW/0.08	2	21
6	SPILLS		Ocean Ave. and Laurel Place WEST HAVEN CT	WSW/0.08	2	22
7	SPILLS		47 PROSPECT AVE WEST HAVEN CT 06516-6447	N/0.10	23	24

Executive Summary: Summary by Data Source

Standard

Federal

ERNS - Emergency Response Notification System

A search of the ERNS database, dated Jul 9, 2014 has found that there are 1 ERNS site(s) within approximately 0.125 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
	18 PROSPECT AVENUE WEST HAVEN CT 06516	NNE	0.07	<u>3</u>

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

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Dec 5, 2013 has found that there are 1 FINDS/FRS site(s) within approximately 0.125 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
OCEAN & DAWSON AVE.	OCEAN & DAWSON AVE. WEST HAVEN CT 06516	W	0.03	<u>1</u>

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

State

SPILLS - Spill Incident Tracking System (SITS)

A search of the SPILLS database, dated JUL 17, 2013 has found that there are 8 SPILLS site(s) within approximately 0.125 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
	ocean ave and dawson ave West Haven CT	W	0.03	<u>1</u>
	34 Arlington St. West Haven CT 06516-6401	NNW	0.06	<u>2</u>
	18 Prospect Ave. West Haven CT 06516-6446	NNE	0.07	<u>3</u>
	51 dawson ave WEST HAVEN CT 06516-6409	WNW	0.08	<u>5</u>
	ocean ave and laurel place WEST HAVEN CT	WSW	0.08	<u>6</u>
	Ocean Ave. and Laurel Place WEST HAVEN CT	WSW	0.08	<u>6</u>
	47 PROSPECT AVE WEST HAVEN CT 06516-6447	N	0.10	<u>7</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance mi</u>	<u>Map Key</u>
	ocean ave and prospect street West Haven CT	NE	0.08	<u>4</u>

72°58'W



Map

Order No: 20140829029

Address: 888 Ocean Ave W Haven CT 06516 US



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

72°58'W

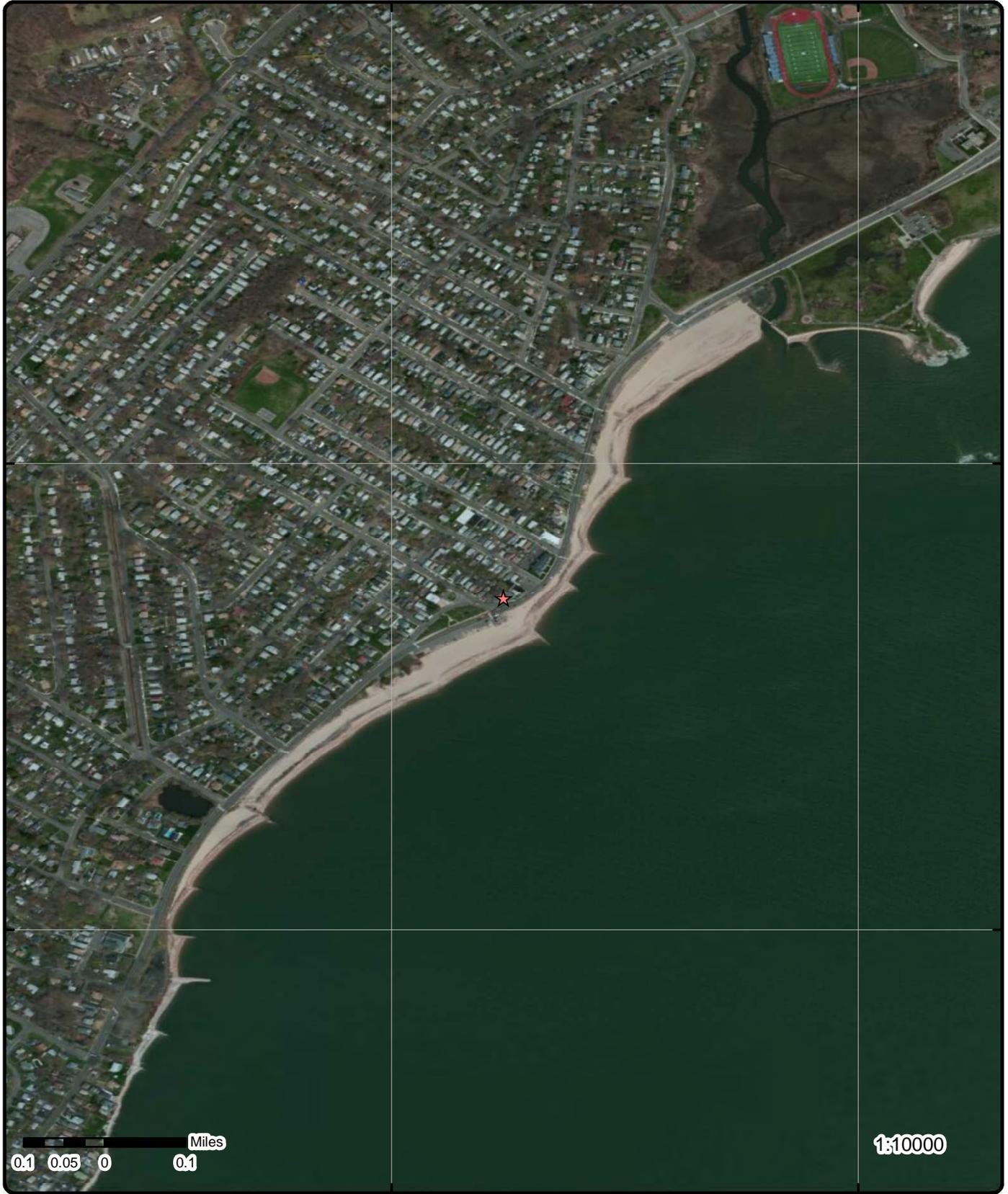
72°57'30"W

41°15'N

41°15'N

41°14'30"N

41°14'30"N



Aerial

Order No: 20140829029

Address: 888 Ocean Ave W Haven CT 06516 US

Source: ESRI World Imagery, Updated December 2012

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2013 Distressed Municipalities			2013 Distressed Municipalities	
Ranked by Score			In town alphabetical order	
	Total Scores			Total Scores
Waterbury	1455	1	Ansonia	1326
Hartford	1449	2	Bridgeport	1380
New Britain	1446	3	Bristol	1261
Bridgeport	1380	4	Derby	1284
Naugatuck	1349	5	East Hartford	1246
New London	1349	6	Enfield	1227
Ansonia	1326	7	Groton	1176
Windham	1311	8	Hartford	1449
Plainfield	1296	9	Killingly	1268
Derby	1284	10	Meriden	1236
Torrington	1275	11	Montville	1136
Killingly	1268	12	Naugatuck	1349
Bristol	1261	13	New Britain	1446
North Canaan	1261	14	New Haven	1253
Sprague	1256	15	New London	1349
New Haven	1253	16	North Canaan	1261
East Hartford	1246	17	Plainfield	1296
Meriden	1236	18	Plymouth	1128
Enfield	1227	19	Putnam	1151
Winchester	1210	20	Sprague	1256
West Haven	1200	21	Torrington	1275
Groton	1176	22	Waterbury	1455
Putnam	1151	23	West Haven	1200
Montville	1136	24	Winchester	1210
Plymouth	1128	25	Windham	1311

Source:

Connecticut Department of Economic and Community Development
<http://www.ct.gov/ecd/cwp/view.asp?a=1105&q=251248>



EAGLE
Environmental, Inc.



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

September 2, 2015

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

**RE: Environmental Assessment Report
Department of Housing
CDBG-DR – Sandy Disaster Recovery Program
888 Ocean Avenue
West Haven, Connecticut 06516
Application #1739
Eagle Project No. 14-028.12T28**

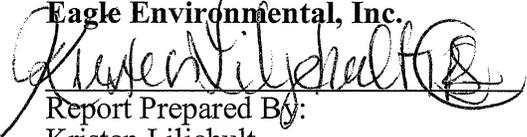
Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 888 Ocean Avenue located in West Haven, Connecticut (Site). The environmental assessment was performed in support of the planned renovations/repairs to the Site building under the State of Connecticut Department of Housing Community Development Block Grant – Disaster Recovery Program (Program). The assessment focused only on those areas of the building that are scheduled for renovation/repair work with the exception of the comprehensive lead-based paint inspection, which included the interior and exterior of the entire building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

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

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

Sincerely,
Eagle Environmental, Inc.


Report Prepared By:
Kristen Liljehult
Environmental Consultant II


Report Reviewed By:
Peter J. Folino
Project Manager

\\Eaglesvr\public\2014 Files\2014 Reports\Capital Studio Architects\Hurricane Sandy\888 Ocean Ave-West Haven\888 Ocean Ave - Enviro Assessment Report.doc

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TABLE OF CONTENTS

1. INTRODUCTION	1
1.1 INSPECTION AREA DESCRIPTION	1
2. SCOPE OF INSPECTION.....	1
2.1 ASBESTOS CONTAINING MATERIALS	1
2.2 LEAD-BASED PAINT	1
2.3 RADON TESTING	3
2.4 MOLD INSPECTION.....	3
3. INSPECTION PROTOCOLS	3
3.1 ASBESTOS CONTAINING MATERIALS	3
3.1.1 Inspection.....	3
3.1.2 Bulk Sampling	4
3.1.3 Bulk Sample Analysis.....	4
3.2 LEAD-BASED PAINT	5
3.2.1 Lead-based Paint Inspection.....	5
3.2.2 Risk Assessment	6
3.3 RADON TESTING	6
3.4 MOLD INSPECTION.....	6
4. INSPECTION RESULTS	6
4.1 ASBESTOS CONTAINING MATERIALS	6
4.2 LEAD-BASED PAINT	7
4.2.1 Lead-based Paint Inspection Results	7
4.2.2 Risk Assessment	8
4.2.3 Dust Hazards.....	8
4.2.4 Soil Hazards.....	8
4.2.5 Lead Regulatory Requirements	8
4.3 RADON	9
4.4 MOLD.....	9
5. COST ESTIMATES.....	10

LIST OF TABLES

Table I	Asbestos-Containing Materials Summary Table
Table II	Non Asbestos-Containing Materials Summary Table

APPENDICES

Appendix 1	Floor Plans
Appendix 2	Asbestos Bulk Sample Laboratory Reports
Appendix 3	XRF Lead-Based Paint Inspection Reports
Appendix 4	Dust Sample Laboratory Reports
Appendix 5	Radon Testing Reports
Appendix 6	Mold Inspection Forms
Appendix 7	Abatement and Consulting Cost Estimates
Appendix 8	Eagle Environmental Inc. Licenses and Laboratory Certificates

1. INTRODUCTION

On September 19, 2014 and August 31, 2015, Eagle Environmental, Inc. conducted an environmental assessment for the site building located at 888 Ocean Avenue in West Haven, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a comprehensive lead-based paint inspection/risk assessment, radon testing (when applicable) and a visual inspection for microbial contamination.

1.1 Inspection Area Description

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection were determined by reviewing the planned renovation work provided in CSA's Project Scope dated August 26, 2014. For the purpose of this project the asbestos inspection and microbial contamination inspection concentrated primarily on the following areas:

- Roof
- Basement
- Impacted Drywall

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

A complete list of components that were tested may be found in the XRF Lead-Based Paint Inspection Detailed Report.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

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

The asbestos inspection was performed by Andrew Carnevale; a State of Connecticut licensed Asbestos Inspector (license #000850).

2.2 Lead-based Paint

A comprehensive lead-based paint inspection was performed at the site building to comply with the Department of Housing and Urban Development (HUD) Lead Safe Housing Rule (24 CFR 35) for a residential property receiving Federal rehabilitation assistance under a program administered by HUD.

Certain lead-based paint requirements apply to each project depending on the level of Federal Funding allocated. The lead-based paint requirements include the following for each level of funding:

1. Residential property receiving \$5,000 or less per unit (Not Applicable to this Project):
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.
 - c. Interim control measures may be utilized throughout the building
 - d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.
 - e. After the completion of any rehabilitation work that has disturbed painted surfaces, clearances are to be performed.

2. Residential property receiving between \$5,000 and \$25,000 per unit:
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.
 - c. Perform interim controls on all lead hazards identified during the lead hazard screen.
 - d. Perform clearance testing following interim control work and renovations.
 - e. Provide notice of lead-hazard reduction within 15 days of completion of work.

3. Residential property receiving greater than \$25,000 per unit:
 - a. **Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.**
 - b. **Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.**

- c. **Abate all interior lead-based paint hazards identified during the lead inspection/risk assessment. Interim controls are acceptable on exterior surfaces that are not disturbed by rehabilitation and on paint-lead hazards that are below the de minimus levels.**
- d. **Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.**
- e. **Perform clearance testing following abatement work.**
- f. **Provide notice of lead-hazard reduction within 15 days of completion of work.**

The lead-based paint inspection was performed by Kristen Liljehult; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002206).

In addition to HUD's Lead Safe Housing Rule, the State of Connecticut Department of Public Health Lead Poisoning Prevention and Control regulations apply when a child under the age of six (6) years old lives in the residence at the time of the inspection. There were no children under six (6) years of age residing in the dwelling at the time of inspection.

2.3 Radon Testing

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

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

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

2.4 Mold Inspection

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

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

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

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

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

3.1.2 Bulk Sampling

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

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

3.1.3 Bulk Sample Analysis

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

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

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method for the 888 Ocean Avenue in West Haven, Connecticut.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method for the 888 Ocean Avenue in West Haven, Connecticut.

3.2 Lead-based Paint

3.2.1 Lead-based Paint Inspection

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

Due to the level of proposed Federal Funding for this project (exceeding \$25,000 per unit), the lead-based paint testing included a comprehensive lead-based paint inspection of representative surfaces on the interior and exterior of the building. Tested component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 4. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

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

3.2.2 Risk Assessment

The visual assessment is conducted to locate potential lead based paint hazards and to evaluate the magnitude of the hazard. The visual assessment identifies deteriorated painted surfaces, areas of visible dust accumulation, areas of bare soil, the presence of friction and impact surfaces, and the presence of painted surfaces on which it is possible for a child under six (6) years old to mouth (“chewable surfaces”). The information gathered during the visual assessment is used to identify areas where defective paint is present and to determine where potential dust and soil samples are to be collected and preliminarily evaluate exposure pathways to lead hazards.

3.3 Radon Testing

The site building will be elevated and the lowest level of the building will not be in contact with the ground. Radon testing was not performed for this site building.

3.4 Mold Inspection

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

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

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

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

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection thirty (30) bulk samples of suspect ACM were collected and twenty-eight (28) samples were analyzed by PLM based on the “stop on first positive” request to the laboratory.

The following materials were confirmed to be ACM:

- Residual duct work outer wrap in dirt of the Crawlspace
- Flue Cement in the Basement

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

The basement area will be filled in prior to elevating the house; both the white paper debris found in the crawlspace and the chimney flue cement must be removed by an Asbestos Abatement Contractor prior to elevating and back filling the foundation.

The mechanical systems have been relocated to the main floor of the house and the original piping or duct work may still exist within the wall cavities of the first and second floors. Additional quantities of thermal system insulation may be present within the wall cavities. If it is deemed necessary to remove wall or ceiling systems where heating registers are present in order to support the proposed renovation work or building elevation it is recommended that additional inspection work is performed.

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

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

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

4.2 Lead-based Paint

4.2.1 Lead-based Paint Inspection Results

A total of one hundred forty-eight (148) XRF readings were collected during the lead-based paint inspection. From the one hundred forty-eight (148) readings, seven (7) readings were found to contain toxic levels of lead-based paint.

The general inventory of surfaces containing toxic levels of lead-based paint include the following

- The basement door and door header
- The Living Room wood window systems
- The "B" side hallway wall and closet door and door jamb

4.2.2 Risk Assessment

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

Within the interior as well as the exterior of the building, lead-based paint in "poor" (defective) condition was identified on the majority of the identified components. The lead-based paint in "poor" (defective) condition is due to contact damage and friction/impact.

Prior to back filling the basement, the basement door and door header must be properly disposed of. All other lead-based paint identified at the property will not impact the proposed scope of work to be performed; however, the hazards will need to be addressed prior to the completion of the job. Eagle has prepared and developed a Lead-based paint Abatement plan for the project. If any exterior enclosures are disturbed or removed during the window replacement, lead safe work practices must be utilized as the substrate underneath is assumed to contain toxic levels of lead-based paint.

4.2.3 Dust Hazards

A total of six (6) dust wipes from various locations within the building were collected at the time of inspection. Dust-lead hazards were identified on the Living Room Floor and Bedroom 1 floor. These areas have been incorporated into the Lead Abatement Scope of Work for the site.

4.2.4 Soil Hazards

No soil samples were collected at the time of inspection as there were no bare areas of soil identified. The owner should maintain the ground cover in its current condition.

A complete inventory of tested building materials is presented in Detailed Reports contained in Appendix 4.

4.2.5 Lead Regulatory Requirements

No children under the age of six (6) years old resided at this site building at the time of the inspection. However, the Federal funding for this project will exceed \$25,000.00 per unit. All interior lead-based paint hazards must be controlled utilizing abatement methods while the exterior lead-based paint hazards may be controlled utilizing interim controls (temporary measures). This residence is considered target housing (housing constructed prior to 1978) by the USEPA. All interior lead-based paint hazards must be performed by a Licensed State of

Connecticut Lead Abatement Contractor, while the exterior lead-based paint hazards may be performed by a USEPA Certified Firm.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint ($>0.0 \text{ mg/cm}^2 \pm 0.3 \text{ mg/cm}^2$ by XRF or $>0.01 \%$ by AAS) requires task specific exposure monitoring. Contractors performing lead disturbing tasks on this project must comply with the OSHA Lead in Construction Standard.

4.3 Radon

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

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

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

4.4 Mold

The homeowner advised the inspectors the basement flooded and the roof was damaged towards the front of the house during the storm event. Per the architect's field review report and on-site conversation with the homeowner it, is understood that the storm flooded the basement and significantly damaged the roof system in the Living Room (003) and Front Bedroom (007).

Within the Basement (002), there was no water staining or microbial spore growth; however moisture readings collected from the ceiling deck and joists indicated that the wood was holding moisture at the time of this inspection. A subsequent inspection on August 31, 2015 did not reveal any microbial growth on the floor joists or underside of floor deck.

The inspection and visible observation for the Living Room (003) identified water staining and visible microbial spore growth on the gypsum soffit above the fire place, the adjacent wall and ceiling. The impacted areas are directly below the area of roof leak. A portion of the gypsum soffit, gypsum wall and ceiling board is recommended for removal. The extent of the water damage was difficult determine by visual observation.

The inspection of and Bedroom I (007) identified impacted wood wainscoting on the ceiling and blistering paint, indicative of water damage, on the "A" wall. The carpeting has been removed as well as some of the wood wainscoting on the wall. The extent of

the water impact and potential microbial growth above and behind the wood walls and ceilings is unknown.

Bedroom 2 (009) also has water staining and a pungent odor; however, the homeowner says the roof was not damaged above this area. This damage may be result of faulty siding.

The Mold Observation Forms are provided in Appendix 6.

5. **COST ESTIMATES**

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

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

The cost estimates are provided in Appendix 7.

TABLE I

ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

**TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
888 OCEAN AVENUE
WEST HAVEN, CONNECTICUT**

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Room 001 (Crawlspace)	Residual ductwork outer wrap on dirt	9-19-AC-03	TSI	55% Chrys			YES	< 3 SF	F
		9-19-AC-04		DNA					
Rooms 003, 004, 005, 006	Ductwork outer wrap (wall cavities)	Assume	TSI	Assume			Assume	Undetermined	F
Room 002	Flue cement	9-19-AC-12	MISC	10% Chrys			YES	1 SF	F
		9-19-AC-13		DNA					
KEY				ANALYTICAL METHODS					
DNA = DID NOT ANALYZE NAD = NO ASBESTOS DETECTED F = FRIABLE NF = NON-FRIABLE TSI = THERMAL SYSTEMS INSULATION SURF = SURFACING MATERIAL MISC = MISCELLANEOUS MATERIAL		SF = SQUARE FEET LF = LINEAR FEET Chrys = Chrysotile Amos = Amosite Anth = Anthophyllite Trem = Tremolite Croc = Crocidolite		PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT TEM NOB = NEW YORK ELAP 198.4 METHOD PLM = EPA 600/R-93/116 PS = Previously Sampled EA = Each					
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION									

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
888 OCEAN AVENUE
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Room 001	Block mortar	9-19-AC-01	MISC	NAD			NO
		9-19-AC-02		NAD			
Room 001	Batt insulation paper	9-19-AC-07	MISC	NAD			NO
		9-19-AC-08		NAD			
Room 001	Paper wrap on pipe	9-19-AC-09	TSI	NAD			NO
		9-19-AC-10		NAD			
		9-19-AC-11		NAD			
Room 003	Textured ceiling paint	9-19-AC-14	SURF	NAD			NO
		9-19-AC-15		NAD			
		9-19-AC-16		NAD			
Room 003, 007	Sheetrock	9-19-AC-17	MISC	NAD			NO
		9-19-AC-18		NAD			
Room 003, 007	Joint compound	9-19-AC-19	MISC	NAD			NO
		9-19-AC-20		NAD			
Room 003, 007	Sheetrock/joint compound composite	9-19-AC-21	MISC	NAD			NO
		9-19-AC-22		NAD			
Porch	Seam hard caulk	9-19-AC-23	MISC	NAD			NO
		9-19-AC-24		NAD			
Main Roof	Black paper under asphalt roof shingle	9-19-AC-25	MISC	NAD			NO
		9-19-AC-26		NAD			
Main Roof	Bottom layer green asphalt roof shingle	9-19-AC-27	MISC	NAD			NO
		9-19-AC-28		NAD			
Main Roof	Top layer tan asphalt roof shingle	9-19-AC-29	MISC	NAD			NO
		9-19-AC-30		NAD			
Main Roof	Black base flashing cement	9-19-AC-31	MISC	NAD			NO
		9-19-AC-32		NAD			
KEY				ANALYTICAL METHODS			
DNA = DID NOT ANALYZE		SF = SQUARE FEET		PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT			
NAD=NO ASBESTOS DETECTED		LF = LINEAR FEET		TEM NOB = NEW YORK ELAP 198.4 METHOD			
F = FRIABLE		Chrys = Chrysotile		PLM = EPA 600/R-93/116			
NF = NON-FRIABLE		Amos = Amosite		PS = Previously Sampled			
TSI = THERMAL SYSTEMS INSULATION		Anth = Anthophyllite		EA = Each			
SURF = SURFACING MATERIAL		Trem = Tremolite					
MISC = MISCELLANEOUS MATERIAL		Croc = Crocidolite					
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION							

APPENDIX 1
FLOOR PLANS

CAPITAL STUDIO ARCHITECTS

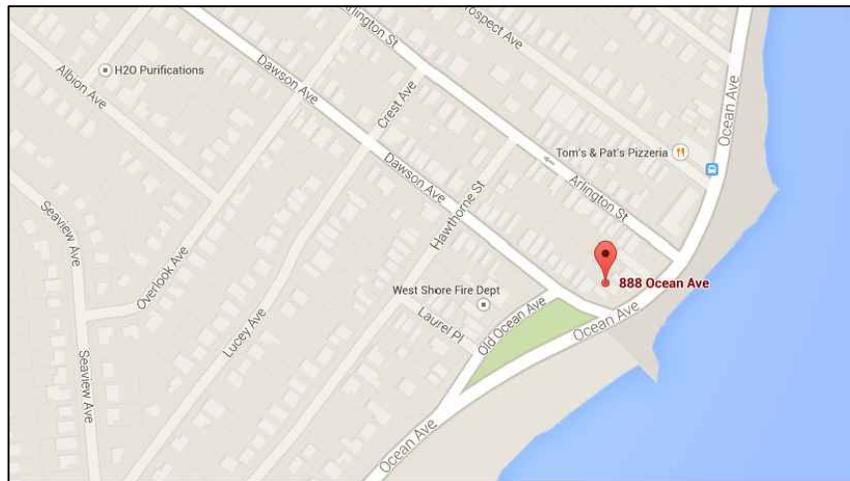
888 OCEAN AVENUE
WEST HAVEN, CONNECTICUT

EAGLE PROJECT NUMBER: 14-028.12T28

INDEX OF DRAWINGS

SP-1 SITE PLAN
FP-1 BASEMENT PLAN
FP-2 FIRST FLOOR PLAN
FP-3 SECOND FLOOR PLAN

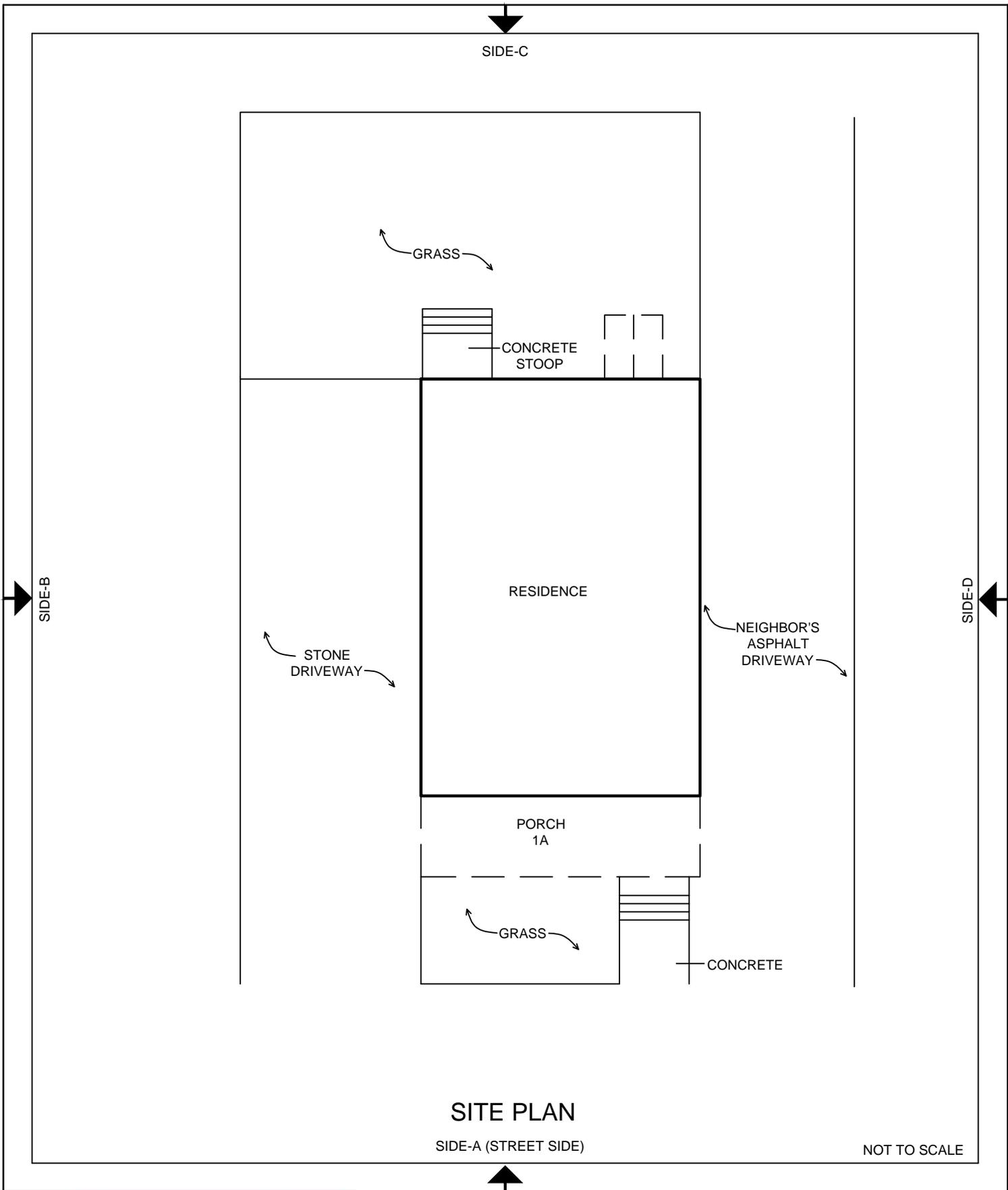
LOCATION MAP



AUGUST 25, 2015



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



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

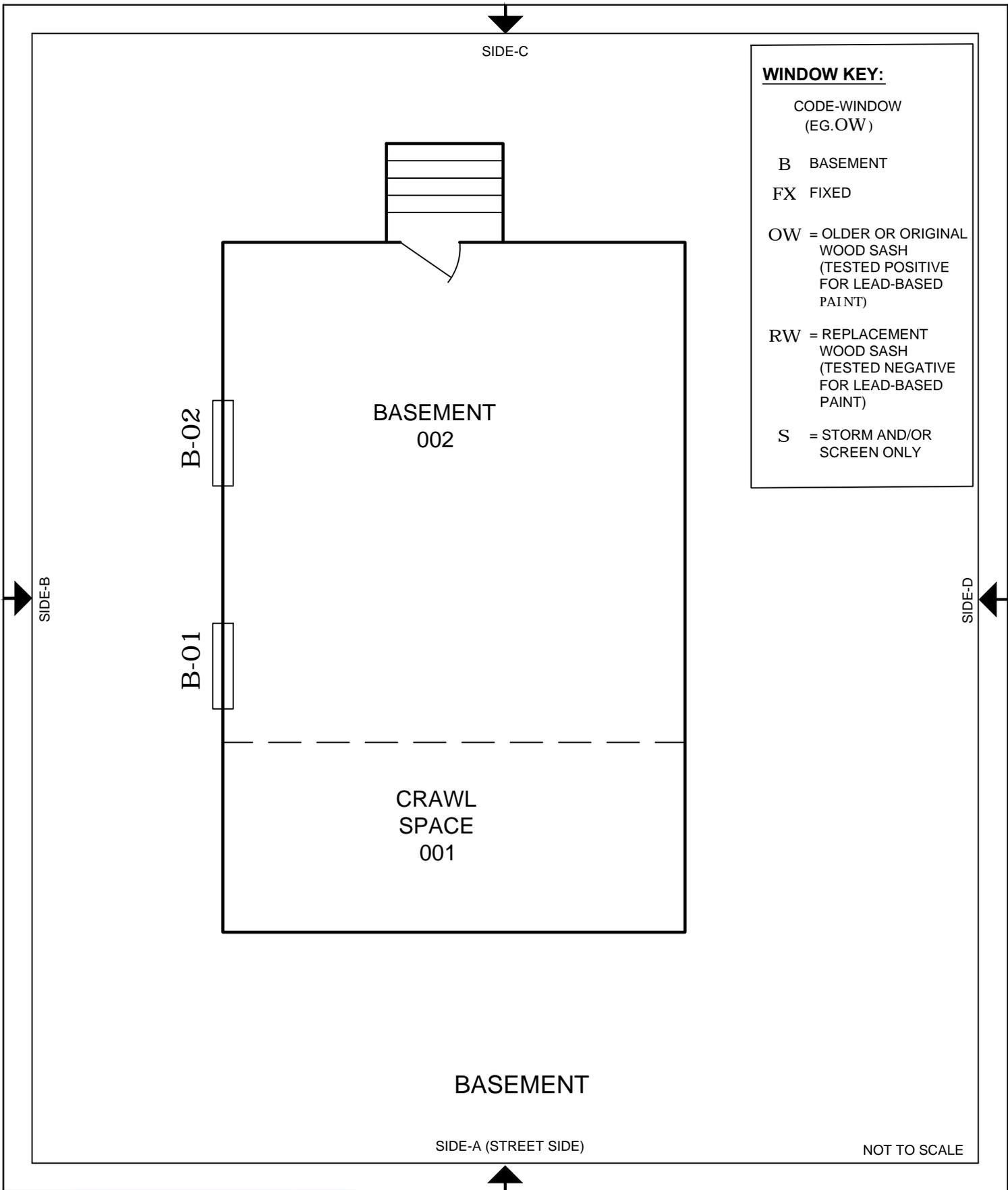
SHEET NO.

SP-1

SHEET 1 OF 4

DATE: 08/25/2015
 PROJECT NO.: 14-028.12T28
 DRAWN BY: VB
 REVIEWED BY: AH

ENVIRONMENTAL REVIEW
 888 OCEAN AVENUE
 WEST HAVEN, CONNECTICUT



WINDOW KEY:

CODE-WINDOW
(EG. OW)

B BASEMENT

FX FIXED

OW = OLDER OR ORIGINAL
WOOD SASH
(TESTED POSITIVE
FOR LEAD-BASED
PAINT)

RW = REPLACEMENT
WOOD SASH
(TESTED NEGATIVE
FOR LEAD-BASED
PAINT)

S = STORM AND/OR
SCREEN ONLY



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

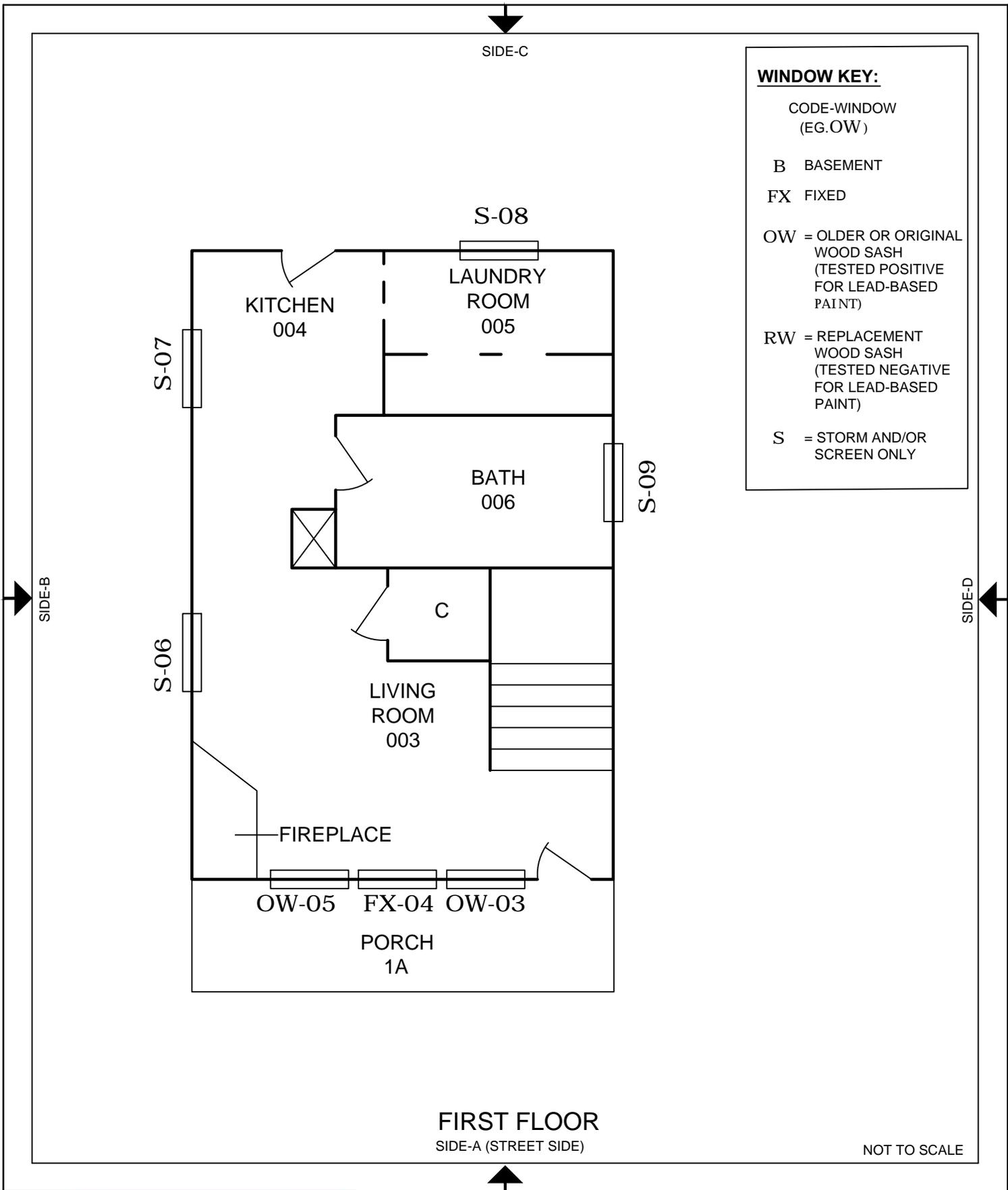
SHEET NO.

FP-1

SHEET 2 OF 4

DATE: 08/25/2015
PROJECT NO.: 14-028.12T28
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
888 OCEAN AVENUE
WEST HAVEN, CONNECTICUT



 <p>EAGLE Environmental, Inc.</p>	<p>8 SOUTH MAIN STREET, SUITE 3 TERRYVILLE, CONNECTICUT 06786 860-589-8257</p>	<p>SHEET NO.</p> <p>FP-2</p> <p>SHEET 3 OF 4</p>
<p>DATE: 08/25/2015 PROJECT NO.: 14-028.12T28 DRAWN BY: VB REVIEWED BY: AH</p>	<p>ENVIRONMENTAL REVIEW 888 OCEAN AVENUE WEST HAVEN, CONNECTICUT</p>	

SIDE-C

WINDOW KEY:

CODE-WINDOW
(EG.OW)

B BASEMENT

FX FIXED

OW = OLDER OR ORIGINAL
WOOD SASH
(TESTED POSITIVE
FOR LEAD-BASED
PAINT)

RW = REPLACEMENT
WOOD SASH
(TESTED NEGATIVE
FOR LEAD-BASED
PAINT)

S = STORM AND/OR
SCREEN ONLY

RW-13

C

BEDROOM 2
008

RW-12

C

HALLWAY
009

C

BEDROOM 1
007

RW-11

C

RW-10

SECOND FLOOR
SIDE-A (STREET SIDE)

NOT TO SCALE

SIDE-B

SIDE-D



EAGLE
Environmental, Inc.

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

SHEET NO.

FP-3

SHEET 4 OF 4

DATE: 08/25/2015
PROJECT NO.: 14-028.12T28
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
888 OCEAN AVENUE
WEST HAVEN, CONNECTICUT

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS



EMSL - MA
 7 Constitution Way, Ste 107
 Woburn, MA 01801
 (781) 933-8411
 (781) 933-8412 Fax

EMSL - CT
 29 N. Plains Hwy, Unit 4
 Wallingford, CT 06492
 (203) 284-5948
 (203) 284-5978 Fax

EMSL - NY
 307 West 38th Street
 New York, NY 10018
 (866) 448-3675
 (212) 290-0058 Fax

EMSL - NJ
 107 Haddon Avenue
 Westmont, NJ 08108
 (800) 220-3675
 (856) 858-4960 Fax

Your Name: Brandy LeBlanc **Project Manager:** PF

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

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

Project Name: CSA Super Storm Sandy **Project #:** 14-028.12T28

Project Location: 888 Ocean Ave., West Haven **Project State (US):** CT

TURNAROUND TIME

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

SAMPLE MATRIX

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

ASBESTOS ANALYSIS

PCM - Air
 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/TWA

TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II

PLM - Bulk
 EPA 600/R-93/116
 NY Stratified Point Count
 California Air Resource Board (CARB) 435
 NIOSH 9002
 PLM NOB (Gravimetric) NYS 198.1
 EPA Point Count (400 Points)
 EPA Point Count (1,000 Points)
 Standard Addition Point Count

SOILS
 EPA Protocol Qualitative
 EPA Protocol Quantitative
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)

TEM BULK
 Drop Mount (Qualitative)
 Chatfield SOP-1988-02
 TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
 ASTM D 5755-95 (Quantitative)

TEM WIPE
 ASTM D-6480-99
 Qualitative

TEM WATER
 EPA 100.1
 EPA 100.2
 NYS 198.2
 Other:

LEAD ANALYSIS

Flame Atomic Absorption
 Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5 009 (974.02)
 Wastewater, SW 846-7420
 TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
 Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma
 Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Full Particle Identification
 Optical Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitreous Fibers - MMVF's
 Synthetic Fiber Identification
 Other:

MICROBIAL ANALYSIS

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

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

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

IAQ ANALYSIS

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

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

Client Sample # (S)	9-19-AC-01	9-19-AC-32	TOTAL SAMPLE #	30
Relinquished:	ANDREW CARNWVALE	Date: 9/19/2014	Time:	PM
Received:	NANCY PORTER	Date: 9/19/2014	Time:	PM
Relinquished:	NANCY PORTER	Date: 9/19/2014	Time:	PM
Received:	<i>K. Marshall</i>	Date: 9/23/14	Time:	10:34AM

Agenda 730n 031436711

031436711



EMSL - MA
7 Constitution Way, Ste 107
Woburn, MA 01801
(781) 933-8411
(781) 933-8412 Fax

EMSL - CT
29 N. Plains Hwy, Unit 4
Wallingford, CT 06492
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EMSL - NY
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New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL - NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
9-19-AC-01	Block mortar	Rm 001		N/A
9-19-AC-02	Block mortar	Rm 001		↓
9-19-AC-03	White paper in dirt	Rm 001		55% Chrys
9-19-AC-04	White paper in dirt	Rm 001		N/A
9-19-AC-05	OMITT			
9-19-AC-06	OMITT			
9-19-AC-07	Batt insulation paper	Rm 001		N/A
9-19-AC-08	Batt insulation paper	Rm 001		↓
9-19-AC-09	Paper wrap on pipe	Rm 001		
9-19-AC-10	Paper wrap on pipe	Rm 001		
9-19-AC-11	Paper wrap on pipe	Rm 001		
9-19-AC-12	Flue cement	Rm 002		
9-19-AC-13	Flue cement	Rm 002		10% Chrys
9-19-AC-14	Textured ceiling paint	Rm 003		N/A
9-19-AC-15	Textured ceiling paint	Rm 003		N/A
9-19-AC-16	Textured ceiling paint	Rm 003		↓
9-19-AC-17	Sheetrock	Rm 003		
9-19-AC-18	Sheetrock	Rm 007		
9-19-AC-19	Joint compound	Rm 003		
9-19-AC-20	Joint compound	Rm 007		
9-19-AC-21	Sheetrock/joint compound composite	Rm 003		
9-19-AC-22	Sheetrock/joint compound composite	Rm 007		
9-19-AC-23	Seam hard caulk	Porch		
9-19-AC-24	Seam hard caulk	Porch		

9/22/14 7:35A

031436711

Rec'd by K. Menath

9/23/14

10:54am

A.O

9/24/14 4:15pm

**EMSL Analytical, Inc.**

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

EMSL Order:	031436711
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: Brandy LeBlanc Eagle Environmental, Inc. - CT 8 South Main Street Suite 3 Terryville, CT 06786	Phone: (860) 589-8257 Fax: (860) 585-7034 Received: 09/23/14 10:34 AM Analysis Date: 9/24/2014 Collected: 9/23/2014
Project: 14-028-12T28/ CSA SUPER STORM SANDY/ 888 OCEAN AVE. / WEST HAVEN, CT	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
09-19-AC-01 031436711-0001	BLOCK MORTAR / ROOM 001	Gray/White Non-Fibrous Heterogeneous		60% Quartz 15% Ca Carbonate 25% Non-fibrous (other)	None Detected
09-19-AC-02 031436711-0002	BLOCK MORTAR / ROOM 001	Gray Non-Fibrous Homogeneous		60% Quartz 20% Ca Carbonate 20% Non-fibrous (other)	None Detected
09-19-AC-03 031436711-0003	WHITE PAPER IN DIRT / ROOM 001	Gray/White Fibrous Homogeneous	10% Cellulose	35% Non-fibrous (other)	55% Chrysotile
09-19-AC-04 031436711-0004	WHITE PAPER IN DIRT / ROOM 001				Stop Positive (Not Analyzed)
09-19-AC-07 031436711-0005	BATT. INSULATION PAPER/ ROOM 001	Tan/Black Fibrous Heterogeneous	87% Cellulose	11% Matrix 2% Non-fibrous (other)	None Detected
09-19-AC-08 031436711-0006	BATT. INSULATION PAPER/ ROOM 001	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
09-19-AC-09 031436711-0007	PAPER WRAP ON PIPE / ROOM 001	Brown/Black Fibrous Heterogeneous	75% Cellulose	23% Matrix 2% Non-fibrous (other)	None Detected
09-19-AC-10 031436711-0008	PAPER WRAP ON PIPE / ROOM 001	Black Fibrous Homogeneous	55% Cellulose	43% Matrix 2% Non-fibrous (other)	None Detected
09-19-AC-11 031436711-0009	PAPER WRAP ON PIPE / ROOM 001	Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected

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

Initial report from 09/24/2014 07:41:03

**EMSL Analytical, Inc.**

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EMSL Order: 031436711
 CustomerID: EEVM50
 CustomerPO:
 ProjectID:

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

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 09/23/14 10:34 AM
 Analysis Date: 9/24/2014
 Collected: 9/23/2014

Project: 14-028-12T28/ CSA SUPER STORM SANDY/ 888 OCEAN AVE. / WEST HAVEN, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
09-19-AC-12 031436711-0010	FLUE CEMENT/ ROOM 002	Gray/Tan Non-Fibrous Heterogeneous		35% Ca Carbonate 55% Non-fibrous (other)	10% Chrysotile
09-19-AC-13 031436711-0011	FLUE CEMENT/ ROOM 002				Stop Positive (Not Analyzed)
09-19-AC-14 031436711-0012	TEXTURED CEILING PAINT / ROOM 003	White Non-Fibrous Heterogeneous		3% Mica 67% Ca Carbonate 30% Non-fibrous (other)	None Detected
09-19-AC-15 031436711-0013	TEXTURED CEILING PAINT / ROOM 003	White Non-Fibrous Heterogeneous		3% Mica 72% Ca Carbonate 25% Non-fibrous (other)	None Detected
09-19-AC-16 031436711-0014	TEXTURED CEILING PAINT / ROOM 003	White Non-Fibrous Heterogeneous		2% Mica 68% Ca Carbonate 30% Non-fibrous (other)	None Detected
09-19-AC-17 031436711-0015	SHEETROCK / ROOM 003	Brown/White Fibrous Heterogeneous	<1% Glass 16% Cellulose	70% Gypsum 9% Ca Carbonate 5% Non-fibrous (other)	None Detected
09-19-AC-18 031436711-0016	SHEETROCK / ROOM 007	Brown/Gray Fibrous Homogeneous	9% Cellulose	50% Gypsum 41% Non-fibrous (other)	None Detected
09-19-AC-19 031436711-0017	JOINT COMPOUND / ROOM 003	White Non-Fibrous Homogeneous		4% Mica 66% Ca Carbonate 30% Non-fibrous (other)	None Detected

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

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 Fax: (860) 585-7034
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 Analysis Date: 9/24/2014
 Collected: 9/23/2014

Project: 14-028-12T28/ CSA SUPER STORM SANDY/ 888 OCEAN AVE. / WEST HAVEN, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
09-19-AC-20 031436711-0018	JOINT COMPOUND / ROOM 007	White Non-Fibrous Homogeneous		8% Mica 60% Ca Carbonate 32% Non-fibrous (other)	None Detected
09-19-AC-21 031436711-0019	SHEETROCK / JOINT COMPOUND COMPOSITE / ROOM 003	Brown/Gray/White Fibrous Heterogeneous	<1% Glass 7% Cellulose	65% Gypsum 23% Ca Carbonate 5% Non-fibrous (other)	None Detected
09-19-AC-22 031436711-0020	SHEETROCK / JOINT COMPOUND COMPOSITE / ROOM 007	White Non-Fibrous Homogeneous		8% Mica 60% Ca Carbonate 32% Non-fibrous (other)	None Detected
09-19-AC-23 031436711-0021	SEAM HARD CAULK / PORCH	Tan/White Non-Fibrous Heterogeneous		65% Ca Carbonate 30% Matrix 5% Non-fibrous (other)	None Detected
09-19-AC-24 031436711-0022	SEAM HARD CAULK / PORCH	Tan/White Non-Fibrous Heterogeneous		60% Ca Carbonate 35% Matrix 5% Non-fibrous (other)	None Detected
09-19-AC-25 031436711-0023	BLACK PAPER UNDER SHINGLE / MAIN ROOF	Black Fibrous Homogeneous		60% Ca Carbonate 35% Matrix 5% Non-fibrous (other)	None Detected
09-19-AC-26 031436711-0024	BLACK PAPER UNDER SHINGLE / MAIN ROOF	Black Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected

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

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Project: 14-028-12T28/ CSA SUPER STORM SANDY/ 888 OCEAN AVE. / WEST HAVEN, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
09-19-AC-27 031436711-0025	BOTTOM LAYER GREEN ASPHALT SHINGLE/ MAIN ROOF	Gray Fibrous Heterogeneous	6% Glass	19% Ca Carbonate 45% Matrix 30% Non-fibrous (other)	None Detected
09-19-AC-28 031436711-0026	BOTTOM LAYER GREEN ASPHALT SHINGLE/ MAIN ROOF	Black Non-Fibrous Homogeneous	2% Glass	45% Ca Carbonate 53% Non-fibrous (other)	None Detected
09-19-AC-29 031436711-0027	TOP LAYER TAN ASPHALT SHINGLE / MAIN ROOF	Brown/Tan/Black Fibrous Heterogeneous	4% Glass	21% Ca Carbonate 40% Matrix 35% Non-fibrous (other)	None Detected
09-19-AC-30 031436711-0028	TOP LAYER TAN ASPHALT SHINGLE / MAIN ROOF	Black Non-Fibrous Homogeneous	3% Glass	40% Ca Carbonate 57% Non-fibrous (other)	None Detected
09-19-AC-31 031436711-0029	BLACK BASE FLASHING CEMENT / MAIN ROOF	Black Non-Fibrous Homogeneous	12% Cellulose	28% Ca Carbonate 55% Matrix 5% Non-fibrous (other)	None Detected
09-19-AC-32 031436711-0030	BLACK BASE FLASHING CEMENT / MAIN ROOF	Black Non-Fibrous Homogeneous		85% Matrix 15% Non-fibrous (other)	None Detected

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Initial report from 09/24/2014 07:41:03



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Analysis Date: 9/24/2014
Collected: 9/23/2014

Project: 14-028-12T28/ CSA SUPER STORM SANDY/ 888 OCEAN AVE. / WEST HAVEN, CT

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

Report Comments:

Sample Receipt Date: 9/23/2014 Sample Receipt Time: 10:34 AM
Analysis Completed Date: 9/24/2014 Analysis Completed Time: 3:59 AM

Analyst(s):

Keri-Dean Scarlett PLM (9)

Steve Juszczuk PLM (19)

Samples reviewed and approved by:

James Hall, Laboratory Manager
or other approved signatory

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Initial report from 09/24/2014 07:41:03

APPENDIX 3

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 09/19/14 10:37

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

PERFORMED AT: 888 Ocean Avenue
West Haven, CT

INSPECTION DATE: 09/19/14

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

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002206

A Comprehensive Lead-Based Paint Inspection was performed
for the interiors and exteriors of the building.

SIGNED: _____



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

Date: _____

9/19/14

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

Inspection Date: 09/19/14 888 Ocean Avenue
 Report Date: 9/19/2014 West Haven, CT
 Abatement Level: 1.0
 Report No. S#02753 - 09/19/14 10:37
 Total Readings: 148 Actionable: 7
 Job Started: 09/19/14 10:37
 Job Finished: 09/19/14 12:13

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 002 Basement									
008	C	Door	Rgt	n/a	P	Wood	white	>9.9	QM
009	C	Door	Rgt	n/a	P	Wood	brown	>9.9	QM
011	C	Door	Rgt	Header	P	Wood	gray	3.6	QM
Comment: All concrete and wood is unpainted. storm basement windows with unpainted wood framework.									
Interior Room 003 Living Rm									
034	A	Window	Rgt	Ext. Sash	P	Wood	white	1.1	TC
Interior Room 009 Hallway									
109	B	Wall	Ctr		I	Wood	yellow	7.0	QM
118	B	Closet	Ctr	Jamb	P	Wood	white	1.5	QM
117	B	Closet	Ctr	Door	P	Wood	white	7.4	QM

Calibration Readings

---- End of Readings ----

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
008	C	Door	Rgt	n/a	P	Wood	white	>9.9	QM
009	C	Door	Rgt	n/a	P	Wood	brown	>9.9	QM
010	C	Door	Rgt	Casing	P	Wood	brown	-0.4	QM
011	C	Door	Rgt	Header	P	Wood	gray	3.6	QM
Comment:									
All concrete and wood is unpainted. storm basement windows with unpainted wood framework.									
Interior Room 003 Living Rm									
025	-	Floor	Ctr		I	Wood	varnish	-0.5	QM
018	-	Ceiling	Ctr		I	Dry wall	white	-0.2	QM
014	A	Wall	Ctr	upper	I	Dry wall	white	-0.3	QM
019	A	Wall	Ctr	lower	I	Wainscotg	peach	-0.2	QM
028	A	Window	Rgt	Casing	I	Wood	white	-0.2	QM
033	A	Window	Rgt	Blind stop	P	Wood	white	0.4	QM
034	A	Window	Rgt	Ext. Sash	P	Wood	white	1.1	TC
031	A	Window	Rgt	Sash	I	Wood	white	0.0	QM
032	A	Window	Rgt	Well	P	Wood	white	0.6	QM
030	A	Window	Rgt	Apron	I	Wood	white	-0.1	QM
029	A	Window	Rgt	Sill	I	Wood	white	-0.1	QM
026	A	Door	Lft	Casing	I	Wood	white	0.0	QM
new prehung door system									
027	A	Door	Lft	Jamb	I	Wood	white	-0.4	QM
015	B	Wall	Ctr	upper	P	Dry wall	white	-0.1	QM
water damage by fireplace insert.									
020	B	Wall	Ctr	lower	I	Wainscotg	peach	0.0	QM
016	C	Wall	Ctr	upper	I	Dry wall	white	-0.2	QM
021	C	Wall	Ctr	lower	I	Wainscotg	peach	-0.3	QM
040	C	Stairs	Rgt	Newel cap	I	Wood	red	-0.2	QM
041	C	Stairs	Rgt	Landing	P	Wood	gray	-0.2	QM
035	C	Stairs	Rgt	Treads	P	Wood	red	-0.2	QM
036	C	Stairs	Rgt	Risers	P	Wood	white	-0.1	QM
037	C	Stairs	Rgt	Newel post	I	Wood	white	0.0	QM
038	C	Stairs	Rgt	Balusters	I	Wood	white	-0.2	QM
039	C	Stairs	Rgt	Railing cap	P	Wood	red	-0.1	QM
023	D	Chair Rail	Ctr		I	Wood	white	-0.2	QM
017	D	Wall	Ctr	upper	I	Dry wall	white	-0.5	QM
022	D	Wall	Ctr	lower	I	Wainscotg	peach	-0.6	QM
024	D	Baseboard	Ctr		I	Wood	white	-0.4	QM
048	D	Closet	Lft	Door stop	I	Wood	white	-0.2	QM
045	D	Closet	Lft	Door	I	Wood	white	-0.6	QM
046	D	Closet	Lft	Door Casing	I	Wood	white	0.0	QM
047	D	Closet	Lft	Door Jamb	I	Wood	white	-0.3	QM
042	D	Closet	Lft	Wall	I	Dry wall	white	-0.6	QM
043	D	Closet	Lft	Shelf Sup.	I	Wood	white	-0.7	QM
044	D	Closet	Lft	Shelf	I	Wood	white	0.0	QM
Interior Room 004 Kitchen									
053	-	Ceiling	Ctr		I	Dry wall	white	-0.4	QM

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
049	A	Wall	Ctr		I	Dry wall	orange	-0.4	QM
050	B	Wall	Ctr		I	Dry wall	orange	-0.3	QM
060	B	Window	Ctr	Frame	I	Wood	white	0.0	QM
051	C	Wall	Ctr		I	Dry wall	orange	-0.2	QM
054	C	Door	Ctr	n/a	I	Metal	white	-0.1	QM
055	C	Door	Ctr	Casing	I	Wood	white	-0.2	QM
056	C	Door	Ctr	Jamb	I	Wood	white	-0.1	QM
052	D	Wall	Ctr		I	Dry wall	orange	-0.4	QM
059	D	Baseboard	Lft		I	Wood	white	-0.3	QM
058	D	Door	Lft	Casing	I	Wood	white	0.0	QM
057	D	Door	Rgt	Casing	I	Wood	white	-0.2	QM
Interior Room 005 Laundry Rm									
065	-	Ceiling	Ctr		I	Dry wall	white	-0.2	QM
061	A	Wall	Ctr		I	Dry wall	lt blue	-0.2	QM
066	A	Door	Lft	Casing	I	Wood	white	0.1	QM
067	A	Door	Rgt	Casing	I	Wood	white	0.0	QM
062	B	Wall	Ctr		I	Dry wall	lt blue	-0.5	QM
068	B	Door	Rgt	Casing	I	Wood	white	-0.4	QM
063	C	Wall	Ctr		I	Dry wall	lt blue	-0.3	QM
069	C	Window	Ctr	Frame	I	Wood	white	-0.2	QM
064	D	Wall	Ctr		I	Dry wall	lt blue	-0.5	QM
Interior Room 006 Bath									
073	-	Ceiling	Ctr		I	Dry wall	white	-0.5	QM
079	A	Cabinet Door	Ctr		I	Wood	white	-0.3	QM
070	A	Wall	Ctr		I	Dry wall	purple	-0.7	QM
071	B	Wall	Ctr		I	Dry wall	purple	-0.1	QM
074	B	Baseboard	Ctr		I	Wood	white	0.1	QM
075	B	Door	Ctr	n/a	I	Wood	white	-0.5	QM
076	B	Door	Ctr	Casing	I	Wood	white	-0.1	QM
077	B	Door	Ctr	Jamb	I	Wood	white	-0.2	QM
078	B	Door	Ctr	Stop	I	Wood	white	-0.5	QM
072	C	Wall	Ctr		I	Dry wall	purple	-0.2	QM
Comment: Wall d is vinyl tub surround.									
Interior Room 007 Bed 1									
085	-	Floor	Ctr		P	Wood	no paint	-0.2	QM
084	-	Ceiling	Ctr		P	Wood	white	-0.2	QM
080	A	Wall	Ctr		P	Wood	lt blue	-0.4	QM
093	A	Window	Ctr	Sill	I	Wood	stain	-0.4	QM
081	B	Wall	Ctr		P	Wood	lt blue	-0.3	QM
088	B	Closet	Lft	Floor	P	Wood	stain	-0.2	QM
086	B	Closet	Lft	Wall	P	Dry wall	white	-0.2	QM
087	B	Closet	Lft	Ceiling	P	Dry wall	white	-0.3	QM
082	C	Wall	Ctr		P	Wood	lt blue	-0.2	QM
092	C	Door	Ctr	Stop	I	Wood	stain	-0.2	QM
089	C	Door	Rgt	n/a	P	Wood	white	-0.3	QM

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
090	C	Door	Rgt	Casing	P	Wood	white	-0.1	QM
091	C	Door	Rgt	Jamb	P	Wood	white	-0.4	QM
083	D	Wall	Ctr		P	Wood	lt blue	-0.2	QM
Interior Room 008 Bed 2									
098	-	Ceiling	Ctr		I	Wood	white	-0.2	QM
094	A	Wall	Ctr		I	Wood	lt blue	-0.1	QM
099	A	Door	Ctr	n/a	P	Wood	white	-0.3	QM
100	A	Door	Ctr	Casing	I	Wood	white	0.0	QM
101	A	Door	Ctr	Jamb	I	Wood	white	-0.1	QM
102	A	Door	Ctr	Stop	I	Wood	white	-0.2	QM
095	B	Wall	Ctr		I	Wood	lt blue	-0.3	QM
104	B	Closet	Lft	Door	I	Wood	yellow	-0.4	QM
105	B	Closet	Lft	Door Casing	I	Wood	lt blue	0.0	QM
103	B	Closet	Lft	Wall	I	Dry wall	white	-0.2	QM
096	C	Wall	Ctr		I	Wood	lt blue	-0.3	QM
106	C	Window	Ctr	Casing	I	Wood	yellow	-0.2	QM
107	C	Window	Ctr	Sill	I	Wood	yellow	-0.1	QM
097	D	Wall	Ctr		I	Wood	lt blue	-0.5	QM
Interior Room 009 Hallway									
114	-	Ceiling	Ctr		P	Dry wall	white	0.1	QM
125	-	Stairs	Ctr	Landing	P	Wood	gray	0.0	QM
123	-	Stairs	Ctr	Treads	P	Wood	gray	-0.3	QM
124	-	Stairs	Ctr	Risers	P	Wood	gray	0.0	QM
120	-	Stairs	Ctr	Newel post	P	Wood	white	-0.1	QM
121	-	Stairs	Ctr	Balusters	P	Wood	white	0.0	QM
122	-	Stairs	Ctr	Railing cap	P	Wood	brown	-0.1	QM
108	A	Wall	Ctr		I	Wood	yellow	-0.5	QM
111	A	Door	Ctr	Casing	I	Wood	white	-0.4	QM
109	B	Wall	Ctr		I	Wood	yellow	7.0	QM
118	B	Closet	Ctr	Jamb	P	Wood	white	1.5	QM
119	B	Closet	Ctr	Door stop	P	Wood	white	-0.3	QM
117	B	Closet	Ctr	Door	P	Wood	white	7.4	QM
115	B	Closet	Ctr	Wall	I	Dry wall	white	-0.1	QM
116	B	Closet	Ctr	Shelf Sup.	I	Wood	white	-0.1	QM
113	C	Crown Mldg	Ctr		I	Wood	white	-0.2	QM
110	C	Wall	Ctr		I	Wood	yellow	-0.7	QM
112	C	Door	Ctr	Casing	I	Wood	white	-0.5	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC
003								1.0	TC
146								1.0	TC
147								1.0	TC
148								1.0	TC

---- End of Readings ----

APPENDIX 4
DUST SAMPLE LABORATORY REPORTS

031436385



www.emsl.com

EMSL - MA 7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	EMSL - CT 29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	EMSL - NY 307 West 38 th Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	EMSL - NJ 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
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Your Name: Brandy LeBlanc **Project Manager:** PF

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

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

Project Name: CSA Super Storm Sandy **Project #:** 14-028.12T27

Project Location: 888 Ocean Ave, West Haven **Project State (US):** CT

TURNAROUND TIME

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

SAMPLE MATRIX

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

ASBESTOS ANALYSIS

PCM - Air

NIOSH 7400 (A) Issue 2: August 1994

OSHA w/TWA

TEM AIR

AHERA 40 CFR, Part 763 Subpart E

NIOSH 7402 Issue 2

EPA Level II

PLM - Bulk

EPA 600/R-93/116

NY Stratified Point Count

California Air Resource Board (CARB) 435

NIOSH 9002

PLM NOB (Gravimetric) NYS 198.1

EPA Point Count (400 Points)

EPA Point Count (1,000 Points)

Standard Addition Point Count

SOILS

EPA Protocol Qualitative

EPA Protocol Quantitative

EMSL MSD 9000 Method fibers/gram

Superfund EPA 540-R097-028 (dust generation)

TEM BULK

Drop Mount (Qualitative)

Chatfield SOP-1988-02

TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC

ASTM D 5755-95 (Quantitative)

TEM WIPE

ASTM D-6480-99

Qualitative

TEM WATER

EPA 100.1

EPA 100.2

NYS 198.2

Other:

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM

Soil, SW846-7420

Air, NIOSH 7082

Chips, SW846-7420 or AOAC 5.009 (974.02)

Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

Air, NIOSH 7105

Wastewater, SW846-7421

Soil, SW846-7421

Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

Wipe, SW846-6010 ASTM non ASTM

Soil, SW846-6010

Air, NIOSH 7300

MICROBIAL ANALYSIS

Air Samples

Mold & Fungi by Air O Cell

Mold & Fungi by Agar Plate count & Id

Bacterial Count and Gram Stain

Bacterial Count and Identification

Water Samples

Total Coliforms, Fecal Coliforms

Escherichia Coli, Fecal Streptococcus

Legionella

Salmonella

Giardia and Cryptosporidium

Wipe and Bulk Samples

Mold & Fungi - Direct Examination

Mold & Fungi - (Culture follow up to direct examination if necessary)

Mold & Fungi - Culture (Count & ID)

Mold & Fungi - Culture (Count only)

Bacterial Count & Gram Stain

Bacterial Count & Identification (3 most prominent types)

Other:

MATERIALS ANALYSIS

Full Particle Identification

Optical Particle Identification

Dust Mites and Insect Fragments

Particle Size & Distribution

Product Comparison

Paint Characterization

Failure Analysis

Corrosion Analysis

Glove Box Containment Study

Petrographic Examination of Concrete

Portland Cement in Workplace Atmospheres (OSHA ID-143)

Man Made Vitrous Fibers - MMVF's

Synthetic Fiber Identification

Other:

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)

Airborne Dust (PM10, TSP)

Silica Analysis by XRD NIOSH 7500

HVAC Efficiency

Carbon Black

Airborne Oil Mist

Other:

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

Client Sample # (S) 9/19 KL 01 9/19 KL 06 TOTAL SAMPLE # 6

Relinquished: [Signature] Date: 9/19/14 Time: PM

Received: [Signature] Date: 9-19-14 Time: PM

Relinquished: [Signature] Date: 9-19-14 Time: PM

Received: [Signature] Date: 9/20/14 Time: 10:34 AM

7712 1801 5814

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

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

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

EMSL Order: 031436385

CustomerID: EEVM50

CustomerPO:

ProjectID:

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

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 09/20/14 10:34 AM
 Collected: 9/19/2014

Project: 14-028.12T27/ CSA SUPER STORM SANDY/ 888 OCEAN AVE/ WEST HAVEN, CT

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
9/19 KL 01 Site: LIVING RM Desc: FLOOR AT ENTRY	031436385-0001	9/19/2014	9/20/2014	144 in ²	720 µg/ft ²
9/19 KL 02 Site: LIVING RM Desc: WINDOW SILL	031436385-0002	9/19/2014	9/20/2014	50 in ²	150 µg/ft ²
9/19 KL 03 Site: KITCHEN Desc: FLOOR AT ENTRY	031436385-0003	9/19/2014	9/20/2014	144 in ²	17 µg/ft ²
9/19 KL 04 Site: BED 1 Desc: FLOOR	031436385-0004	9/19/2014	9/20/2014	144 in ²	83 µg/ft ²
9/19 KL 05 Site: FIELD BLANK	031436385-0005	9/19/2014	9/20/2014	n/a	<10 µg/wipe
9/19 KL 06 Site: FIELD BLANK	031436385-0006	9/19/2014	9/20/2014	n/a	<10 µg/wipe

M. Apfeldorfer

Miron Apfeldorfer, Laboratory Manager
 or other approved signatory

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

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

Initial report from 09/20/2014 22:51:27

APPENDIX 5

RADON TESTING REPORTS

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

APPENDIX 6
MOLD INSPECTION FORMS



MOLD OBSERVATION FORM

Eagle Project No: 14-028.12T28 Date: September 19, 2014 Inspector: Kristen Liljehult

Facility Address: 888 Ocean Ave, West Haven, CT

Location	Observation	Sample Number
Basement (002)	No visible signs of water intrusion – testing of ceiling deck and joists identified the wood is “at risk.”	
Living Room (003)	Water staining, mold spore growth and paint blistering was observed on the B-Left wall above the built-out Fireplace insert. Heavy damage on the ceiling and upper wall area, paint blistering down below, closer to lower wall wainscoting.	
Bedroom 1 (007)	Water staining, mold spore growth (on front closet ceiling) and blistering paint observed on “A” wall and ceiling. Carpet has been removed along with pieces of the wood wall and window trim. Black mold spore growth above entry door. Pungent odor.	
Bedroom 2 (008)	Water staining observed on “C” wall and ceiling. Pieces of wall and window trim have been removed. Carpet remains. Pungent odor. Per homeowner, the roof damage was not above this room.	



EAGLE Environmental, Inc.

MOLD MOISTURE READING FORM

Eagle Project No: 14-028, 12T28 Date: 9/19/14 Inspector: KL

Facility Address: 888 Ocean Avenue, West Haven, CT

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
003	wall	Drywall	38.6%			✓
	Ceiling	Drywall	12.3%	✓		
	Fireplace shut	wood	12.3%	✓		
	lwr wall	wood	15.5%	✓		
007	wall	wood	12.0%	✓		
	Ceiling	wood	9.1%	✓		
	closet ceiling	Drywall	14.8%	✓		
	window stud	wood	10.0%	✓		
	Floor	wood	13.8%	✓		
	Door-closet	wood	9.8%	✓		
001	ceiling ceiling	wood	16.0%	✓		
	ceiling joist	wood	18.2%		✓	

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
	003	48.3%	18.7°C	6.3°C

APPENDIX 7

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES

APPLICATION NO. 1739

888 OCEAN AVENUE

WEST HAVEN, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
ASBESTOS CONTINGENCY	1	\$ 1,500.00 EA	\$ 1,500.00
SUBTOTAL			\$ 1,500.00
ASBESTOS ABATEMENT CONTINGENCY			\$ 150.00
ASBESTOS TOTAL			\$ 1,650.00

**ITALIZED IS FOR ASSUMED MATERIALS*

LEAD-BASED PAINT COST ESTIMATE

RRP WORK PRACTICES

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT PER SCOPE	1	\$ 1,500.00 LUMPSUM	\$ 1,500.00
SUBTOTAL			\$ 1,500.00
LEAD RENOVATION CONTINGENCY			\$ 150.00
LEAD RENOVATION TOTAL			\$ 1,650.00

MICROBIAL CONTAMINATION REMEDIATION COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
MICROBIAL REMEDIATION PER SCOPE	1	\$ 7,500.00 EACH	\$ 7,500.00
SUBTOTAL			\$ 7,500.00
MICROBIAL REMEDITION CONTINGENCY			\$ 750.00
MICROBIAL REMEDIATION TOTAL			\$ 8,250.00

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL **\$ 11,550.00**

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
CONSULTING ESTIMATE	1	\$1,800.00 EACH	\$ 1,800.00
SUBTOTAL			\$ 1,800.00
CONSULTING CONTINGENCY			\$ 180.00
CONSULTING TOTAL			\$ 1,980.00

GRAND TOTAL **\$ 13,530.00**

APPENDIX 8
EAGLE ENVIRONMENTAL, INC. LICENSES
AND LABORATORY CERTIFICATES

Certificate of Training

Awarded to

ANDREW CARNEVALE

For successful completion of a 4 Hour, 1/2 Day
**Asbestos Building Inspector
Annual Refresher Training**
January 2, 2014

This training was approved and given in accordance with the
Regulations for Connecticut State Agencies
RCSA 20-440-19 and RCSA 20-441 and meets the
requirements of the EPA Revised MAP under TSCA Title II of 4/4/94.

Presented by

Mystic Air Quality Consultants, Inc.

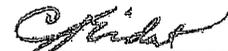
1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: ABIRF22726

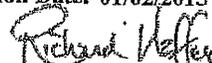
Exam Grade: 100

Expiration Date: 01/02/2015

Exam Date: 01/02/2014



Christopher J. Eident, CIH, CSP, RS



George Williamson, Training Director

Richard Haffey, Training Director

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

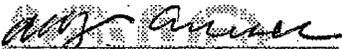
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT INSPECTOR

ANDREW C. CARNEVALE

LICENSE NO.
000850
CURRENT THROUGH
10/31/14
VALIDATION NO.
08-702940



SIGNATURE



COMMISSIONER

ENVIRONMENTAL TRAINING AND ASSESSMENT

Certificate of Completion Lead Inspector/Risk Assessor — Refresher

Awarded To

Kristen Liljehult
269 Baileyville Road
Middlefield, CT 06455

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

Course Date: 1/2/2014 Examination Grade: 88%
Examination Date: 1/2/2014 Certificate Number: LI/RAR-00350
Expiration Date: 1/2/2015

Stephen Craig

Stephen J. Craig, Training Manager

Boston Lead Company, LLC
dba
Environmental Training and Assessment
62 Washington Street
Middletown, CT 06457
860-347-7277

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

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

LEAD INSPECTOR RISK ASSESSOR

KRISTEN P. LILJEHULT

CERTIFICATION NO.
002206
CURRENT THROUGH
12/31/14
VALIDATION NO.
03-715183

[Signature]
SIGNATURE

[Signature]
COMMISSIONER

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

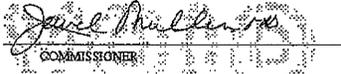
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

LEAD CONSULTANT CONTRACTOR

EAGLE ENVIRONMENTAL INC.

LICENSE NO.
001728
CURRENT THROUGH
04/30/15
VALIDATION NO.
03-794089


SIGNATURE


COMMISSIONER

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

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

EMSL ANALYTICAL, INC. - MANHATTAN, NY

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

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

ASBESTOS

Environmental Health & Housing

Examination For:

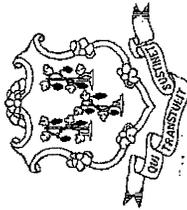
Bulk - Identification (PLM, TEM)
Air - Fiber Counting (PCM, TEM)
Water - TEM

Examination For:

Lead in Paint
Lead Paint in Soil
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

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



Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION