

ENVIRONMENTAL REVIEW REPORT

**Community Development Block Grant – Disaster Recovery
Owner Occupied Rehabilitation and Rebuilding Program**

Applicant # 1266

**12 Cooper Avenue
Milford, Connecticut**

November 20, 2014

Prepared for:

**Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut**

Prepared by:

**Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut**

STATUTORY CHECKLIST [§58.35(a) activities]

for Categorical Exclusions and Environmental Assessments

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

**Project Name and Identification/Location: Capece Residence / #1266
12 Cooper Ave. Milford, Connecticut**

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Consulted with State Historic Preservation Office (SHPO); Building built in 1930. SHPO determined the proposed work will have an adverse effect on the State's cultural resources. See attached SHPO letter dated 8/26/14. Therefore it will proceed to the Programmatic Agreement between DOH/DECD/SHPO and the National Advisory Council.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Located in Flood Zone AE based on FEMA – Map Number 09009C0529J Revised July 8, 2013. See attached FIRMLET.
3. Wetland Protection [58.5 (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. Consulted City of Milford Inland Wetlands. No mapped wetlands. See attached National Wetlands Mapper
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is located within the Coastal Boundary as mapped by DEEP.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water Quality – N/A Project does not involving on-site water and sewer facilities nor is it in a sole source aquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT LOCATED AT WATERFRONT PROPERTIES WITH SANDY BEACHES - consult with Department of Interior Fish and Wildlife Database – See attached Department of Interior Fish and Wildlife report dated May 29, 2014.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eightmile River is only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov; November 2012)
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clean Air Act, State Implementation Plan, HUD & EPA Regulations; in general, residential rehabilitation exempted w/no quantifiable increase in air pollution.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
9. Farmland Protection [58.5(h)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Agricultural land use conversion not anticipated. Adverse effects to agricultural resources are not anticipated; clearly defined urban areas . Location not considered protected farmland
Manmade Hazards: 10 A. Thermal Explosive [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A for projects that do not add density
10 B. Noise [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable to project – restoration of structure substantially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. This property is not located in an Airport Clear Zone. Property does not involve the purchase or sale of an existing property in an airport zone.
10 D. Toxic Sites [58.5 (i)(2)(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site has no known toxic history based on the attached Toxix Site Certification. The site: 1) is not listed on EPA Superfund National Priorityies or CERCLA list. 2) is not located within 3,000ft of a toxic or solid waste landfill. 3) is not known to have an underground storage tank (which is not an underground storage fuel tank). 4) Is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive Order 12898 Program activities do not anticipate high & adverse human health and environmental effects on minority or low-income populations;
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Located in Zone AE – Map Number 09009C0529J Revised July 8, 2013. See attached FIRMLET Flood insurance required.
12 B. Coastal Barriers [58.6(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Property is not located in a Coastal Barrier Resource Zone. See attach map.
12 C. Airport Clear Zone Notification [58.6(d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. This property is not located in an Airport

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
							Clear Zone. Property does not involve the purchase or sale of an existing property in an airport zone.
13. A. Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Conservation and Recovery Act and Solid Waste Disposal Act; Residential Exemption
13 B. Fish and Wildlife [U.S.C. 661-666c]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fish and Wildlife Coordination Act: Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Lead paint found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014. Give tenant Notice about Lead.
13 D. Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014. Compliance will include measures to minimize risk of exposure and when necessary abate any hazardous materials.
13 E. Radon [50.3 (i) 1]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radon concentration less than 4 picocuries per liter of air. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014. No action required.
13 F. Mold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Mold Found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Property inside Flood Zone AE on FEMA map 09009C0529J Revised July 8, 2013. Certification through the General Permit for CDBG-DR activities with DEEP required. See appendix B Certification form and required documents.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not located in Title wetlands – see attached Zoning Location Survey.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not located in wetlands - see attached letter from Mary Rose Polumbo Inland Wetlands Compliance Officer.
14 E. Various Municipal Zoning Approvals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approvals required by Planning/Zoning Commission or ZBA. If any work outside original building footprint.

DETERMINATION:

- This project converts to Exempt, per §58.349a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license. Funds may be drawn down for this (now) EXEMPT project; **OR**

- This project cannot convert to Exempt because one or more statutes/authorities requires consultation or litigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; OR
- The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:


Name: Stephen Ball

10/2/14
Date

Responsible Entity or designee Signature:


Hermia Delaire, CDBG-DR Program Manager

10/6/14
Date

Print

Milford Ct Apt www.Rent.com Search Apartments in Milford Real-time Listings & Availability

YAHOO!
MAPS

12 Cooper Ave, Milford, CT 06460-6208

Anthony Capece





12 COOPER AVE

Location	12 COOPER AVE	Assessment	\$82,150
Mblu	22/ 459/ 6/ /	Appraisal	\$117,350
Acct#	014753	PID	4307
Owner	CAPECE ANTHONY J	Building Count	1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2013	\$30,050	\$87,300	\$117,350

Assessment			
Valuation Year	Improvements	Land	Total
2013	\$21,040	\$61,110	\$82,150

Owner of Record

Owner	CAPECE ANTHONY J	Sale Price	\$245,000
Co-Owner		Book & Page	03393/0397
Address	12 COOPER AVE MILFORD, CT 06460	Sale Date	01/04/2011

Ownership History

Ownership History			
Owner	Sale Price	Book & Page	Sale Date
FREDERICK RYAN	\$82,400	02423/0205	08/25/2000
PAUL BRUCE H	\$0	01330/0100	12/11/1984

Building Information

Building 1 : Section 1

Year Built: 1930
Living Area: 0
Replacement Cost: \$112,290
Building Percent 25
Good:
Replacement Cost
Less Depreciation: \$28,070

Building Photo

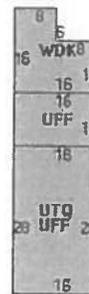
Building Attributes	
Field	Description
Style	Conventional
Model	Residential
Grade:	Average

Stories:	1.75
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gambrel
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Heat Fuel	Gas
Heat Type:	Forced Air-Duc
AC Type:	Central
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Updated
Bath Desc.	1-Full



(http://images.vgsi.com/photos/MilfordCTPhotos/\00\05\01\55.jpg)

Building Layout



Building Sub-Areas		Legend	
Code	Description	Gross Area	Living Area
UFF	First Floor, Unfinished	608	0
UTQ	Unfinished, 3/4 Story	448	0
WDK	Deck, Wood	208	0
		1264	0

Extra Features

Extra Features		Legend
No Data for Extra Features		

Land

Land Use

Use Code	1010
Description	SINGLE FAM MDL-01
Zone	R5
Neighborhood	E
Alt Land Appr Category	No

Land Line Valuation

Size (Acres)	0.08
Frontage	30
Depth	112
Assessed Value	\$61,110
Appraised Value	\$87,300

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
HTUB	HOT TUB			1 UNITS	\$1,980	1

Valuation History

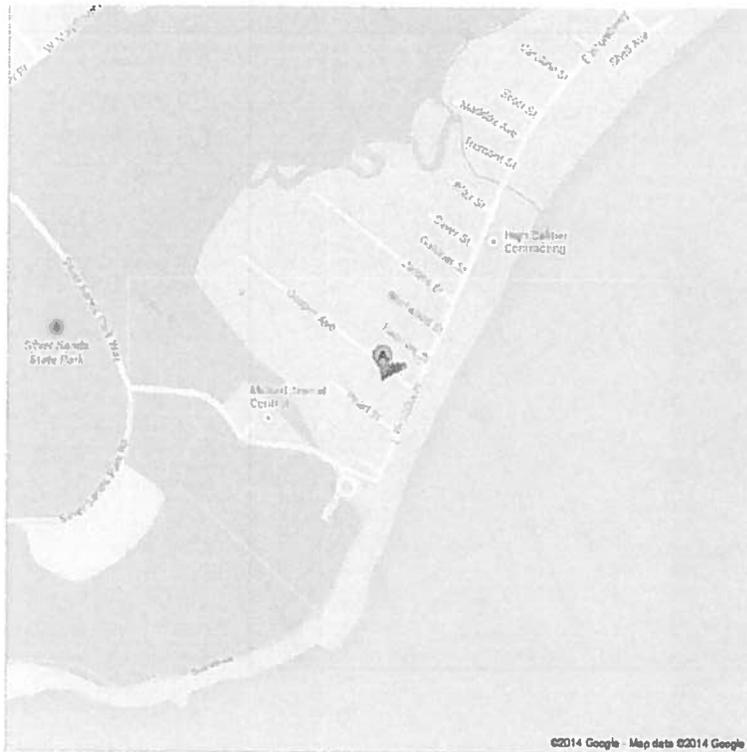
Appraisal			
Valuation Year	Improvements	Land	Total
2013	\$30,050	\$87,300	\$117,350
2012	\$132,200	\$116,400	\$248,600
2011	\$80,330	\$116,400	\$196,730

Assessment			
Valuation Year	Improvements	Land	Total
2013	\$21,040	\$61,110	\$82,150
2012	\$92,540	\$81,480	\$174,020
2011	\$56,230	\$81,480	\$137,710

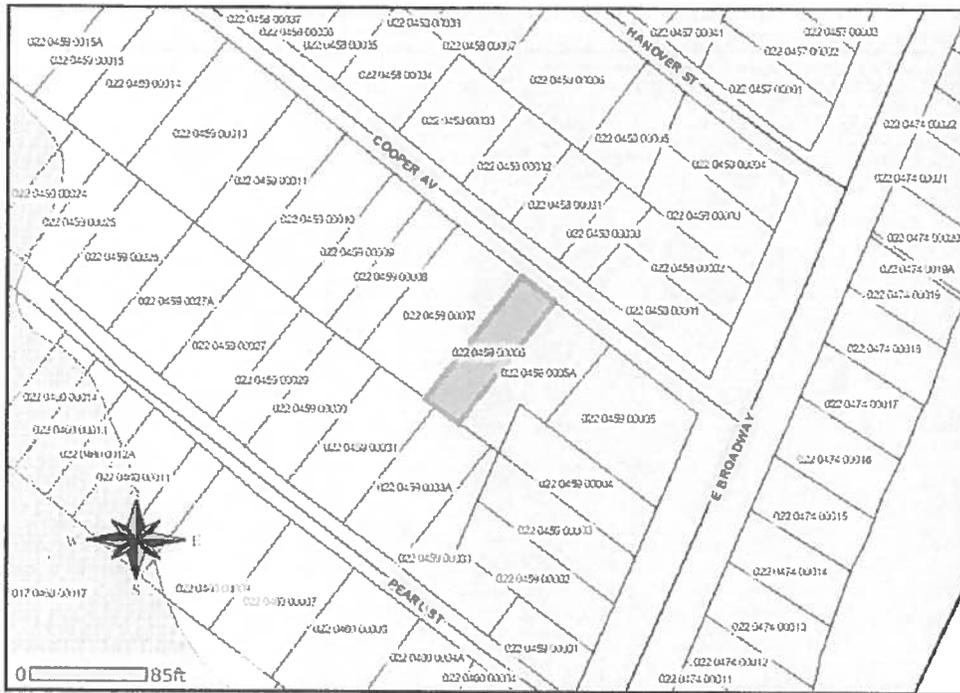
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Google

Address 12 Cooper Ave
Milford, CT 06460



12 Cooper Ave



Legend

- Streets
- Wetlands
- Tax Parcels
- Town Boundary

June 6, 2014

Disclaimer: This map was produced from the City of Milford Geographic Information System. The map was compiled using the most current GIS data available. It is deemed accurate, but is not guaranteed. The City expressly disclaims any liability that may result from the use of this map. This map is not a survey and is subject to any changes an actual land survey discloses.

COPY

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A - PROPERTY INFORMATION		FOR INSURANCE COMPANY USE			
A1. Building Owner's Name	Anthony J Capece	Policy Number:			
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or PO, Route and Box No.	12 Cooper Avenue	Company NAIC Number:			
City	Milford	State	CT	ZIP Code	06460
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)	Assessor Map 22, Block 459, Lot 6; Deed in Volume 3393 Page 397 Milford Land Records				
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)	Residential				
A5. Latitude/Longitude: Lat. 41°12'07.1221"	Long. 73°03'53.6172"	Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983			
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.					
A7. Building Diagram Number <u>9</u>					
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:			
a) Square footage of crawlspace or enclosure(s)	<u>579</u> sq ft	a) Square footage of attached garage	<u>N/A</u> sq ft		
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade	<u>3</u>	b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade	<u>N/A</u>		
c) Total net area of flood openings in A8.b	<u>845</u> sq in	c) Total net area of flood openings in A9.b	<u>N/A</u> sq in		
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION						
B1. NFIP Community Name & Community Number City of Milford 090082			B2. County Name New Haven		B3. State CT	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)	
09009C0529	J	07/08/2013	07/08/2013	AE	11	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____						
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____						
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ / _____ / _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA						

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)	
C1. Building elevations are based on <input type="checkbox"/> Construction Drawings* <input type="checkbox"/> Building Under Construction* <input checked="" type="checkbox"/> Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.	
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: <u>GPS Established Station (CORS96)</u> Vertical Datum: <u>NAVD 1988</u> Indicate elevation datum used for the elevations in items a) through h) below. <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____ Datum used for building elevations must be the same as that used for the BFE.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>2 7</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor	<u>5 7</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>N A</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab)	<u>N A</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>4 1</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<u>3 9</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>4 3</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>4 0</u> <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION				
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.				
<input checked="" type="checkbox"/> Check here if comments are provided on back of form.		Were latitude and longitude in Section A provided by a licensed land surveyor? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Check here if attachments.				
Certifier's Name Washington Cabezas, Jr.	License Number PEL 70210			
Title Land Surveyor and Professional Engineer	Company Name Cabezas DeAngelis, Engineers & Surveyors			
Address 1450 Barnum Avenue	City Bridgeport	State CT		ZIP Code 06610
Signature 	Date 08/14/2013	Telephone (203) 330-8700		

ELEVATION CERTIFICATE, page 2

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 12 Cooper Avenue			Policy Number:	
City Milford	State CT	ZIP Code 06460	Company NAIC Number:	

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments: Lowest elevation of equipment servicing dwelling is a condenser unit located at grade level. (El. 4.1) Additional 44 SF of next higher floor space is cantilevered from rear crawl space wall.

Signature: *Washington Cabezas* Date: 08/14/2013

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG)
 - a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
 - b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name: Washington Cabezas, Jr., PEL 70210
 Address: 1450 Barnum Avenue, Suite 201 City: Bridgeport State: CT ZIP Code: 06610
 Signature: *Washington Cabezas* Date: 08/14/2013 Telephone: (203) 330-8700

Check here if attachments.

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter meters.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4-G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	-----------------------------------------------------

- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ feet meters Datum: _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ feet meters Datum: _____
- G10. Community's design flood elevation: _____ feet meters Datum: _____

Local Official's Name: _____ Title: _____
 Community Name: _____ Telephone: _____
 Signature: _____ Date: _____

Comments: _____

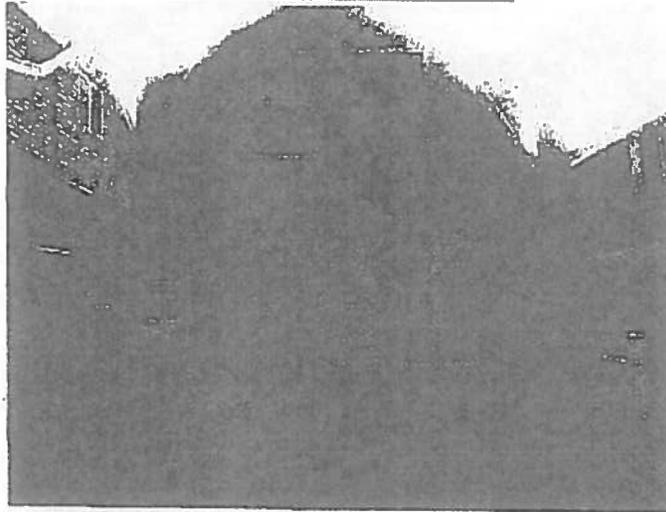
Check here if attachments.

BUILDING PHOTOGRAPHS
See Instructions for Item A6.

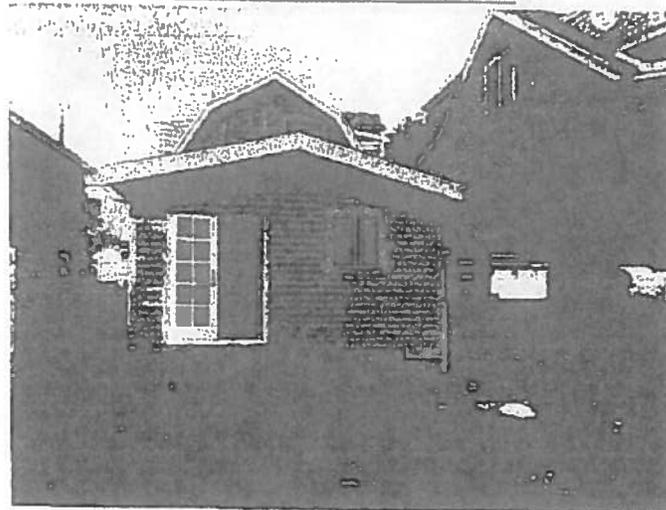
IMPORTANT: in these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE	
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 12 Cooper Avenue			Policy Number:	
City Milford	State CT	ZIP Code 06460	Company NAIC Number:	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section AB. If submitting more photographs than will fit on this page, use the Continuation Page.

Front View – August 13, 2013



Rear View – August 13, 2013

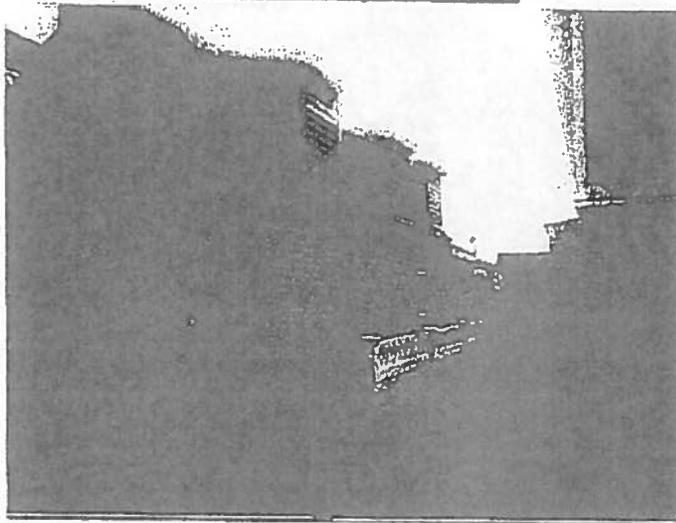


BUILDING PHOTOGRAPHS
Continuation Page

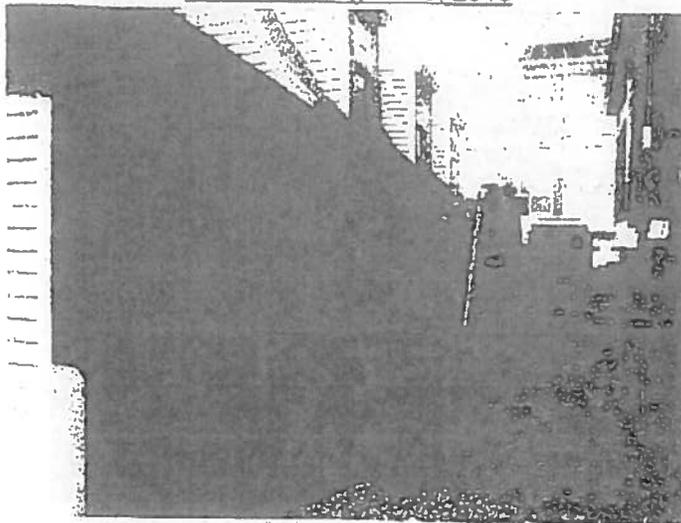
IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (Including Apt., Unit, Suite, and/or Bldg. No.) or R.O. Route and Box No. 12 Cooper Avenue			Policy Number:
City Milford	State CT	ZIP Code 06460	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Right Side – August 13, 2013



Left Side – August 13, 2013





Department of Economic and
Community Development

Connecticut
still revolutionary

Sm
12/10/12

August 26, 2014

received
8-27-14

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

Subject: Department of Housing Superstorm Sandy Reviews
12 Cooper Avenue
Milford, CT

Dear Ms. Delaire:

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

It is the opinion of this office that the property located at 12 Cooper Avenue is eligible for listing on the National Register of Historic Places as a contributing resource to a potential historic district.

Based on the information provided, the proposed project will have an adverse effect on the state's cultural resources.

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

For further information please contact Laura L. Mancuso, Environmental Review Coordinator, at (860) 256-2757 or laura.mancuso@ct.gov.

Sincerely,

Mary B. Dunne
Deputy State Historic Preservation Officer

STEPHEN BALL
294 White Deer Rocks Road
Woodbury, Connecticut 06798

February 27, 2014

Todd Levine
State Historic Preservation Office
One Constitution Plaza, 2nd floor
Hartford, CT 06103

Re: Environmental Review –12 Cooper Eve. Milford, CT

Dear Mr. Levine:

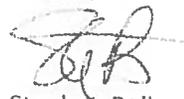
An Environmental Review for renovations due to Super Storm Sandy at 12 Cooper Ave, Milford, CT is required for the use of CDBG-DR funding through the Connecticut Department of Housing. The review requires that State Historic Preservation Office determination regarding historic significance.

I have attached the State Historic Preservation Office review form, scope of proposed work, photographs, map, and assessor's cards.

We do not feel the property has any historic significance and are requesting a finding of "No Effect".

Should you have any questions or require any additional information, feel free to call me at (203) 509-7231.

Thanks,



Stephen Ball

Enc.



State Historic Preservation Office

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

PROJECT REVIEW COVER FORM

1. This information relates to a previously submitted project.

You do not need to complete the rest of the form if you have been previously issued a SHPO Project Number. Please attach information to this form and submit.

SHPO Project Number (Not all previously submitted projects will have project numbers)

Project Address 14 Cooper Ave. Milford, CT 06460 (Street Address and City or Town)

2. This is a new Project.

If you have checked this box, it is necessary to complete ALL entries on this form.

Project Name Capece Residence

Project Location 14 Cooper Ave. Include street number, street name, and or Route Number. If no street address exists give closest intersection.

City or Town Milford In addition to the village or hamlet name (if appropriate), the municipality must be included here.

County New Haven If the undertaking includes multiple addresses, please attach a list to this form.

Date of Construction (for existing structures) 1930

PROJECT DESCRIPTION SUMMARY (include full description in attachment):

See attached Projected Scope and Magnitude of Cost prepared by Quisenbury Arcari Architects LLC dated March 5, 2014.

TYPE OF REVIEW REQUESTED

a. Does this undertaking involve funding or permit approval from a State or Federal Agency?

[X] Yes [] No

Agency Name/Contact CT Dept. of Housing Type of Permit/Approval CDBG-DR

State Federal [X] [X] [] [] [] []

b. Have you consulted the SHPO and UCONN Dodd Center files to determine the presence or absence of previously identified cultural resources within or adjacent to the project area?

Yes No [] [X]

If yes: Was the project site wholly or partially located within an identified archeologically sensitive area?

[] []

Does the project site involve or is it substantially contiguous to a property listed or recommended for listing in the CT State or National Registers of Historic Places?

[] []

Does the project involve the rehabilitation, renovation, relocation, demolition or addition to any building or structure that is 50 years old or older?

[] []



State Historic Preservation Office

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

PROJECT REVIEW COVER FORM

The Historic Preservation Review Process in Connecticut Cultural Resource Review under the National Historic Preservation Act – Section 106 <http://www.achp.gov/106summary.html> involves providing technical guidance and professional advice on the potential impact of publicly funded, assisted, licensed or permitted projects on the state's historic, architectural and archaeological resources. This responsibility of the State Historic Preservation Office (SHPO) is discharged in two steps: (1) identification of significant historic, architectural and archaeological resources; and (2) advisory assistance to promote compatibility between new development and preservation of the state's cultural heritage.

Project review is conducted in two stages. First, the SHPO assesses affected properties to determine whether or not they are listed or eligible for listing in the Connecticut State or National Registers of Historic Places. If so, it is deemed "historic" and worthy of protection and the second stage of review is undertaken. The project is reviewed to evaluate its impact on the properties significant materials and character. Where adverse effects are identified, alternatives are explored to avoid, or reduce project impacts; where this is unsuccessful, mitigation measures are developed and formal agreement documents are prepared stipulating these measures. For more information and guidance, please see our website at: <http://www.cultureandtourism.org/cct/cwp/view.asp?a=3933&q=293820>

ALL PROJECTS SUBMITTED FOR REVIEW MUST INCLUDE THE FOLLOWING MATERIALS*:

PROJECT DESCRIPTION Please attach a full description of the work that will be undertaken as a result of this project. Portions of environmental statements or project applications may be included. The project boundary of the project should be clearly defined**

PROJECT MAP This should include the precise location of the project – preferably a clear color image showing the nearest streets or roadways as well as all portions of the project. Tax maps, Sanborn maps and USGS quadrangle maps are all acceptable, but Bing and Google Earth are also accepted if the information provided is clear and well labeled. The project boundary should be clearly defined on the map and affected legal parcels should be identified.

PHOTOGRAPHS Clear, current images of the property should be submitted. Black and white photocopies will not be accepted. Include images of the areas where the proposed work will take place. May require: exterior elevations, detailed photos of elements to be repaired/replaced (windows, doors, porches, etc.) All photos should be clearly labeled.

For Existing Structures	Yes	N/A	Comments	
Property Card	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
For New Construction	Yes	N/A	Comments	
Project plans or limits of construction (if available)	<input type="checkbox"/>	<input type="checkbox"/>		
If project is located in a Historic District include renderings or elevation drawings of the proposed structure	<input type="checkbox"/>	<input type="checkbox"/>		
Soils Maps http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm	<input type="checkbox"/>	<input type="checkbox"/>		
Historic Maps http://magic.lib.uconn.edu/	<input type="checkbox"/>	<input type="checkbox"/>		
For non-building-related projects (dams, culverts, bridge repair, etc)	Yes	N/S	Comments	
Property Card	<input type="checkbox"/>	<input type="checkbox"/>		
Soils Map (see above)	<input type="checkbox"/>	<input type="checkbox"/>		
Historic Maps (see above)	<input type="checkbox"/>	<input type="checkbox"/>		
STAFF REVIEW AREA	Above	Date	Below	Date
Indicate date of Review and Initials of Reviewer				

PROJECT CONTACT

Name Stephen Ball Title Consultant
 Firm/Agency _____
 Address 294 White Deer Rocks Road
 City Woodbury State CT Zip 06798
 Phone _____ Cell 203-509-7231 Fax _____
 Email stephenjball@hotmail.com

*Note that the SHPO's ability to complete a timely project review depends largely on the quality of the materials submitted.

** Please be sure to include the project name and location on *each page* of your submission.



State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | 860 256 2800 | Cultureandtourism.org

PROJECT REVIEW COVER FORM

SHPO USE ONLY

Based on our review of the information provided to the State Historic Preservation Office, it is our opinion that:

- No historic properties will be affected by this project. No further review is requested.
- This project will cause no adverse effects to the following historic properties. No further review is requested:
- This project will cause no adverse effects to the following historic properties, conditional upon the stipulations included in the attached letter:
- Additional information is required to complete our review of this project. Please see the attached letter with our requests and recommendations.
- This project will adversely affect historic properties as it is currently designed or proposed. Please see the attached letter for further details and guidance.

Daniel T. Forrest
Deputy State Historic Preservation Officer

Date



MAP SCALE 1" = 500'



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

PANEL 0629J

PANEL 529 OF 535
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

DATE	DATE	DATE
06/20/13	06/20/13	06/20/13
06/20/13	06/20/13	06/20/13

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
 09009C0529J
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 FIRM 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

LEGEND



SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A

No Base Flood Elevations determined.

ZONE AE

Base Flood Elevations determined.

ZONE AH

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR

Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



FLOODWAY AREAS IN ZONE AE

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



OTHER FLOOD AREAS

ZONE X

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



OTHER AREAS

ZONE X

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

ZONE D

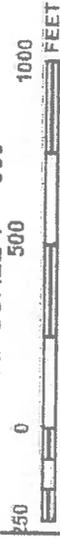
Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



MAP SCALE 1" = 500'



PANEL 0533J

FIRM

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

PANEL 533 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CITY/TOWNSHIP

COUNTY

DATE

SCALE

NO.

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



MAP NUMBER
09009C0533J

MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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Capece Residence

Sep 30, 2014

U.S. Fish and Wildlife Service
National Wetlands Inventory



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currency of the data shown on this map. All wetland data was derived from the National Wetlands Inventory, which is available on the Wetlands Mapper web site.

User Remarks:
 12 Cooper Ave. Milford



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-0316
Project Name: 12 Cooper Ave. Milford, CT

May 29, 2014

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: 12 Cooper Ave. Milford, CT

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-0316

Project Type: Federal Grant / Loan Related

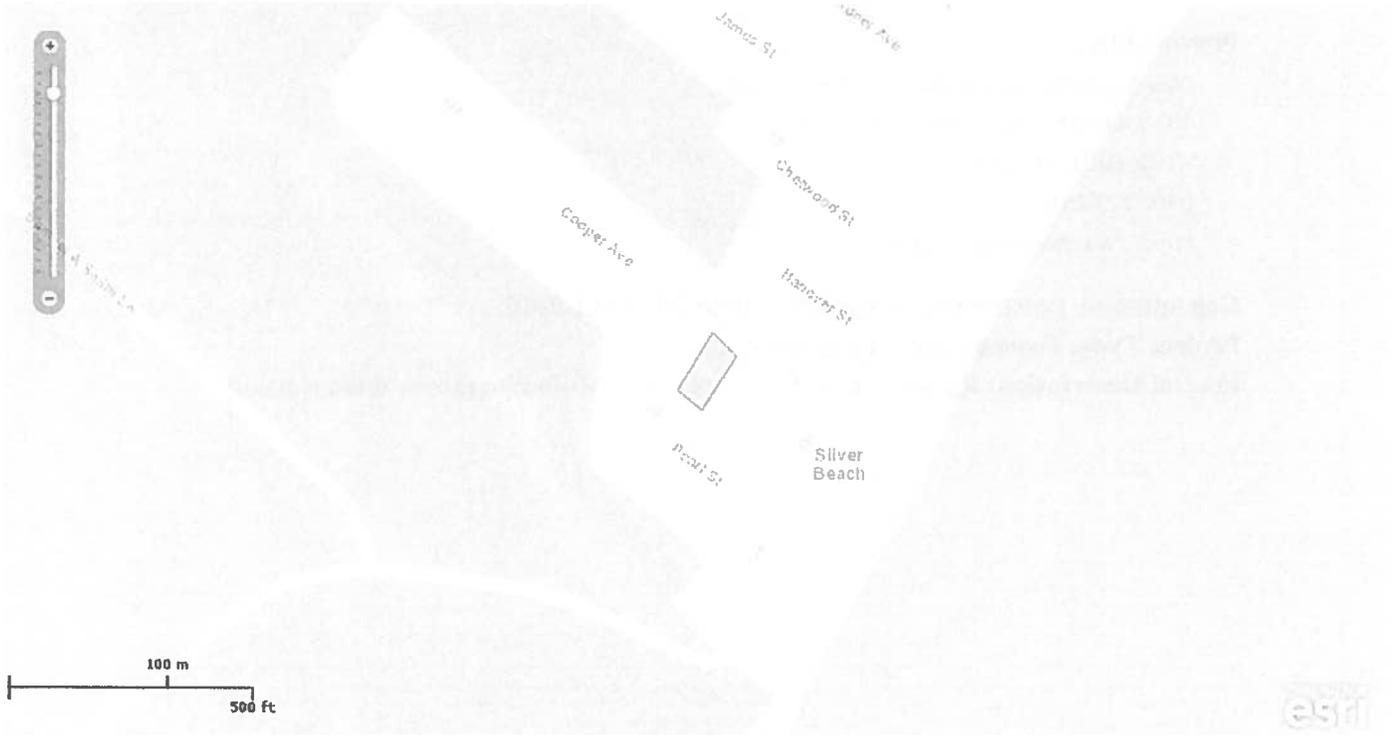
Project Description: Raise home at 12 Cooper Ave. Milford to proper flood elevation.



United States Department of Interior
Fish and Wildlife Service

Project name: 12 Cooper Ave. Milford, CT

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.0650152 41.2021408, -73.0652798 41.201834, -73.0654611 41.201947, -73.0652036 41.2022784, -73.0650152 41.2021408)))

Project Counties: New Haven, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 12 Cooper Ave. Milford, CT

Endangered Species Act Species List

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

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



United States Department of Interior
Fish and Wildlife Service

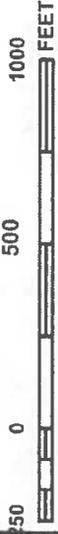
Project name: 12 Cooper Ave. Milford, CT

Critical habitats that lie within your project area

There are no critical habitats within your project area.



MAP SCALE 1" = 500'



NFP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0529J

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

PANEL 529 OF 635
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY: NEW HAVEN
DATE: 06/20/07
EFFECTIVE DATE: 07/08/13

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
09009C0529J
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 FIRM 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



LEGEND



SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



FLOODWAY AREAS IN ZONE AE

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



OTHER FLOOD AREAS

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

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



MAP SCALE 1" = 500'



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

PANEL 0533J

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

COMMUNITY: NEW HAVEN COUNTY OF CONNECTICUT
 COUNTY: NEW HAVEN COUNTY
 STATE: CONNECTICUT

DATE: JULY 8, 2013

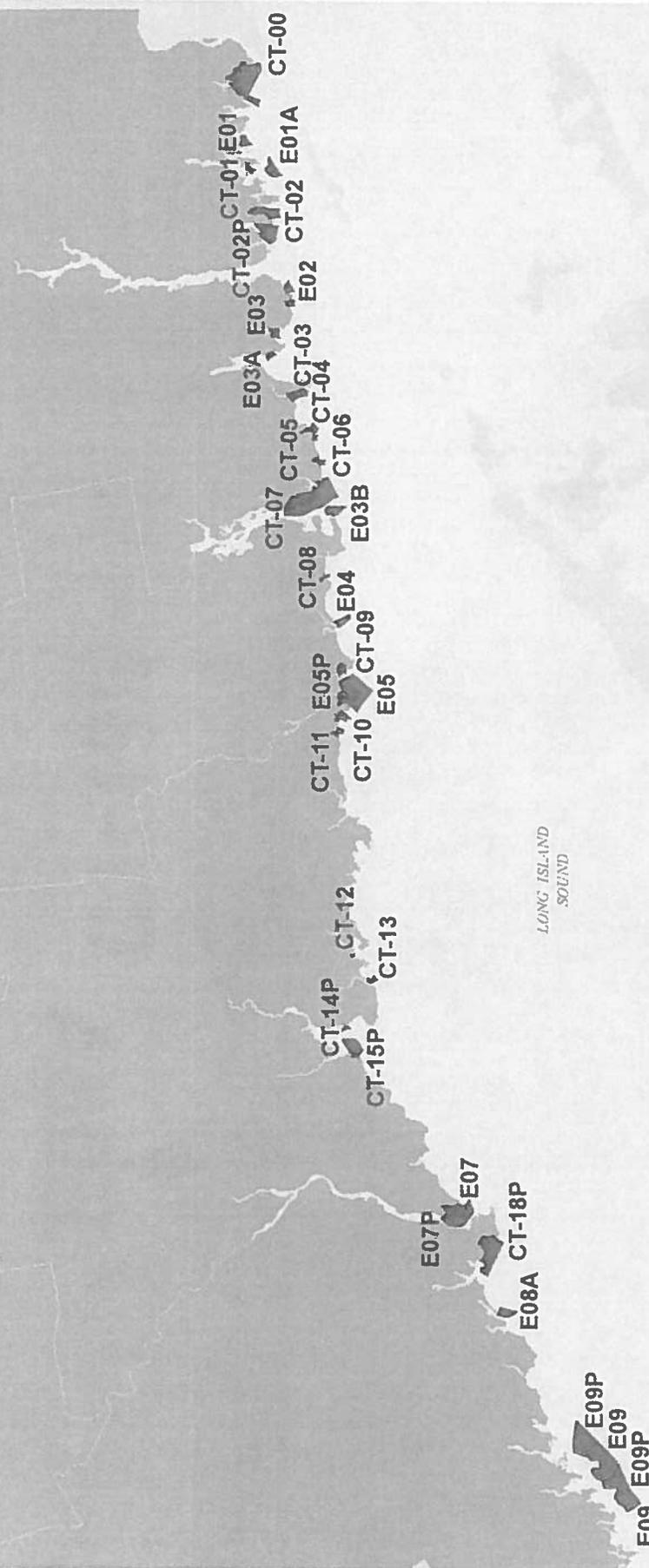
MAP NUMBER: 09009C0533J
 MAP REVISED: JULY 8, 2013

Federal Emergency Management Agency

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.

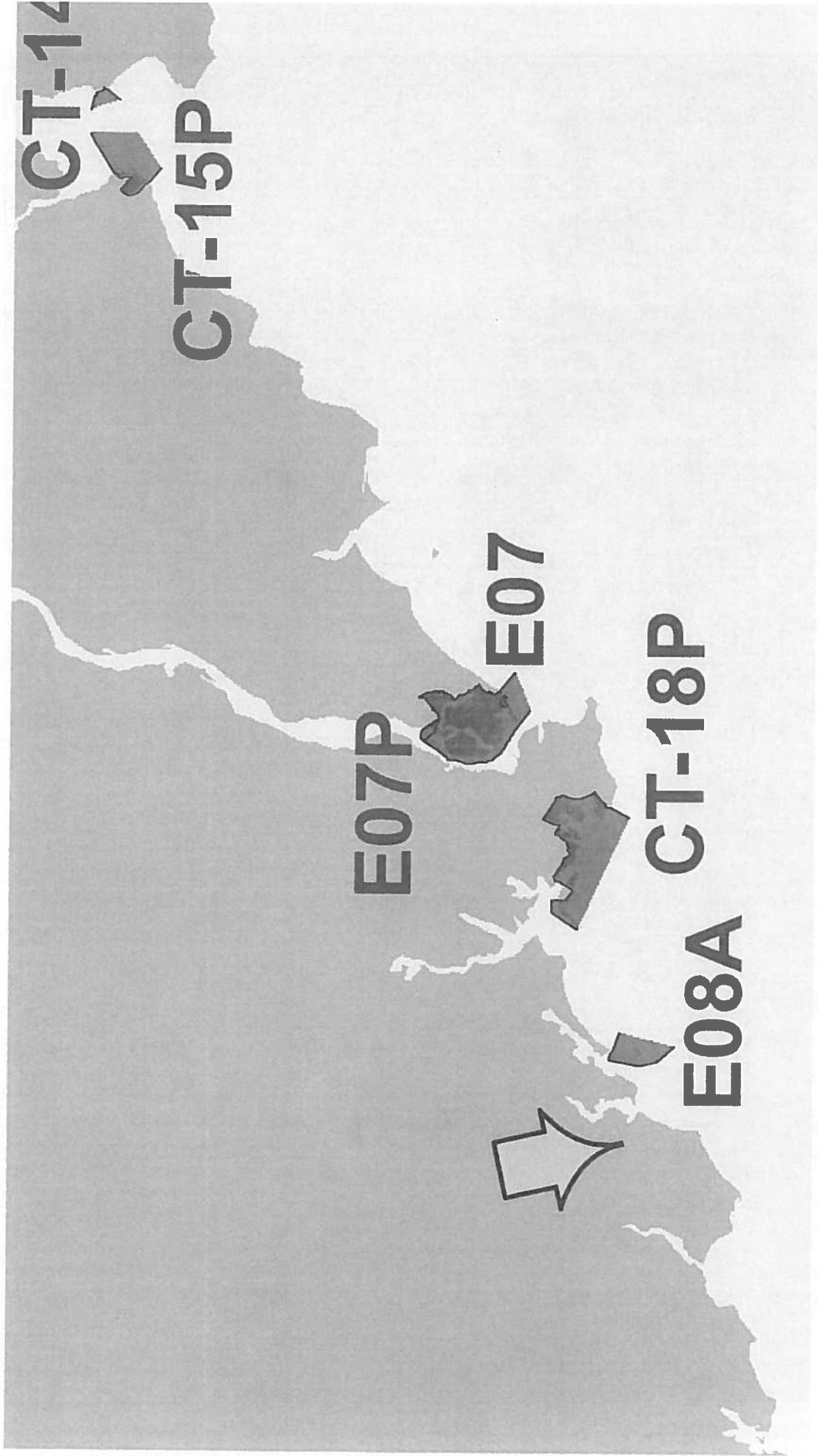
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JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM CONNECTICUT

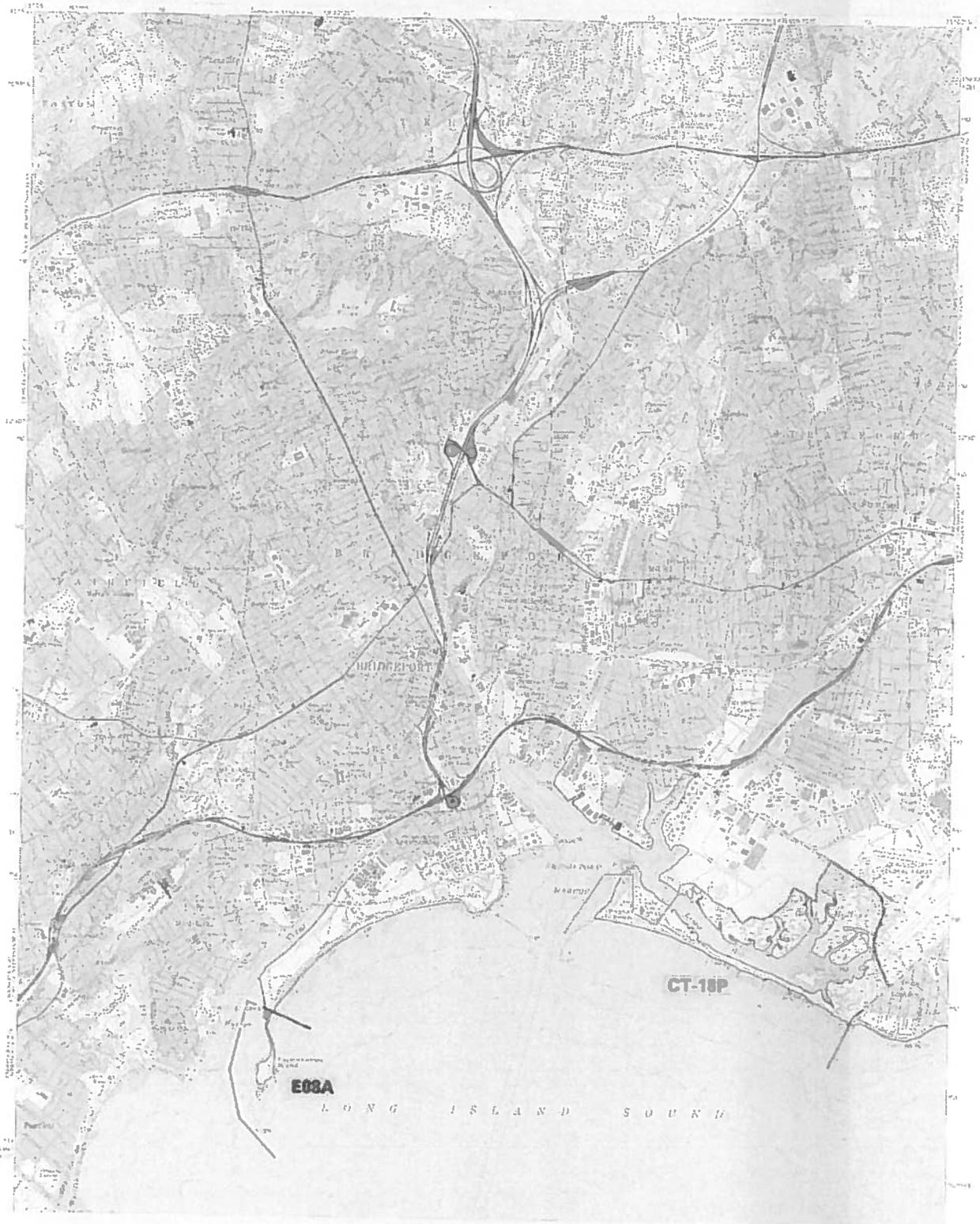


Number of CBRS Units:	32
Number of System Units:	25
Number of Otherwise Protected Areas:	7
Total Acres:	9,245
Upland Acres:	1,130
Associated Aquatic Habitat Acres:	8,115
Shoreline Miles:	22

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

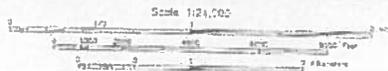


CT-14
CT-15P
E07P
E07
CT-18P
E08A



This map has been produced by the U.S. Fish and Wildlife Service from a set of maps adopted by Congress pursuant to the Coastal Barrier Improvement Act P.L. 101-681 and supersedes all previous maps prepared by the Service concerning undeveloped coastal barriers. The boundary delineation of this map is identical to that adopted by Congress.

COASTAL BARRIER RESOURCES SYSTEM
LONG BEACH UNIT CT-18P
FAIRWEATHER ISLAND UNIT E08A



- Solid lines depict units in the CBRs.
- Dotted lines depict "otherwise protected areas" not within the CBRs. These areas are shown with the Letter "P" following the unit number.

October 24, 1990

Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project
12 Cooper Avenue
Milford, Connecticut

Quisenberry Arcari Architects, LLC
Farmington, Connecticut

May 2014



Fuss & O'Neill EnviroScience, LLC
56 Quarry Road
Trumbull, CT 06611

Project No. 20140277.A4E



FUSS & O'NEILL
EnviroScience, LLC

May 28, 2014

Mr. Thomas Arcari
Principal
Quisenberry Arcari Architects LLC
318 Main Street
Farmington, CT 06032

RE: Limited Hazardous Materials Building Inspection
Storm Sandy Residential Rehabilitation Project
12 Cooper Avenue, Milford, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.A4E
Quisenberry Arcari Project No. 1346-11

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed at 12 Cooper Avenue in Milford, Connecticut.

The initial inspection was performed on April 9, 2014, by Fuss & O'Neill EnviroScience, LLC state-licensed inspectors and included an asbestos inspection, testing for lead-based paint, airborne radon assessment, mold assessment, and assessments for PCB-containing ballasts and mercury hazards.

The information summarized in this document is for the above-mentioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks, PCB-containing building materials, etc.).

If you have any questions regarding the contents of this report, please do not hesitate to contact us at 203) 374-3748. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Kevin McCarthy
Project Manager

Robert L. May, Jr.
President
NEHA NRPP # 105366 RT

56 Quarry Road
Trumbull, CT
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Connecticut
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Enclosure

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Limited Hazardous Materials Building Inspection Report
Quisenberry Arcari Architects LLC
12 Cooper Avenue, Milford, Connecticut

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Appendices

APPENDIX A	FUSS & O'NEILL ENVIROSCIENCE STATE LICENSES, CERTIFICATIONS AND ACCREDITATIONS
APPENDIX B	ASBESTOS SAMPLE RESULTS AND CHAIN OF CUSTODY FORMS
APPENDIX C	LEAD PAINT TESTING PROCEDURES AND EQUIPMENT
APPENDIX D	LEAD TESTING FIELD DATA SHEETS
APPENDIX E	AIRBORNE RADON GAS ASSESSMENT RESULTS AND CHAIN OF CUSTODY FORMS



1 Introduction

On April 9, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technician, Mr. Robert Hobbins, performed a limited hazardous materials building inspection of the residential structure located at 12 Cooper Avenue in Milford, Connecticut (the "Site"). Mr. Hobbins is a State of Connecticut-licensed Asbestos Consultant - Inspector and Certified Lead Paint Inspector. The residential structure was not occupied at the time and date of the inspection. Refer to *Appendix A* for EnviroScience inspector's state license, certifications and accreditations.

This inspection was performed in response to the planned renovations to damaged or impacted areas of the building caused by Superstorm Sandy, as identified in the *Draft Residence Rehabilitation Letter* dated March 5, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

- A inspection for asbestos-containing materials (ACM)
- Testing of painted surfaces for lead-based paint (LBP);
- An evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB)-containing light ballasts;
- An inventory of light tubes/lamps and devices for mercury;
- Airborne radon gas assessment; and
- A mold assessment.

2 Asbestos Inspection

A Property Owner must ensure that performance of a thorough inspection for ACM, prior to possible disturbance of suspect ACM during renovation or demolition, is conducted. This is a requirement of the United States (US) Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR Part 61, Sub-Part M.

This includes Friable, Non-Friable Category I, and Non-Friable Category II ACM.

- A Friable Material is defined as material that contains greater than one percent (>1%) asbestos, that when dry **can** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category I Non-Friable Material refers to material that contains greater than one percent (>1%) asbestos (e.g. packings, gaskets, resilient floor coverings, asphalt roofing products, etc.) that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category II Non-Friable Material refers to any non-friable material (excluding Category I materials) that contains greater than one percent (>1%) asbestos that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.

During this inspection, suspect ACM were separated into three EPA categories. These categories are: thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded pipe fitting insulations. Surfacing ACM includes all ACM that is sprayed, troweled, or otherwise applied to an existing surface. Surfacing ACM is

commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Samples are recommended to be collected in a manner sufficient to determine asbestos content and include homogenous building materials. The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected and analyzed, but recommends the use of sampling protocols included in EPA Title 40 CFR Part 763, Sub-Part E - Asbestos Containing Materials in Schools regulation.

2.1 Methodology

Samples of suspect ACM were collected in accordance with EPA recommendations and Asbestos Hazard Emergency Response Act (AHERA) protocols. The protocols included the following:

1. Surfacing Materials (SURF) (e.g., plaster, spray-on fireproofing, etc.) were collected in a randomly distributed manner representing each homogenous area based on the overall quantity represented by the sampling as follows:
 - a. Three samples collected from each homogenous area that is less than or equal to (\leq) 1,000 square feet.
 - b. Five samples collected from each homogenous area that is greater than ($>$) 1,000 square feet, but less than or equal to 5,000 square feet.
 - c. Seven samples collected from each homogenous area that is greater than ($>$) 5,000 square feet.
2. Thermal System Insulation (TSI) (e.g., pipe insulation, tank insulation, etc.) was collected in a randomly distributed manner representing each homogenous area. Three bulk samples were collected as representative of each homogeneous material type, and sent to laboratory for asbestos analysis. Also, a minimum of one sample of any patching material (less than 6 linear of square feet) applied to TSI was collected.
3. Miscellaneous Materials (MISC) (e.g., floor tile, gaskets, construction mastics, etc.) had a minimum of two samples collected as representative of each homogenous material type. Sampling was conducted in a manner sufficient to determine asbestos content of the homogenous material as determined by the Asbestos Inspector. If materials identified were of (significant) minimal quantity, only a single sample was collected.

The Asbestos Consultant – Inspector collected samples and prepared proper chain-of-custody forms for transmission of samples to an accredited asbestos analytical laboratory for analysis by Polarized Light Microscopy (PLM). The sampling locations, material type, quantity, sample identification, and asbestos content are identified by bulk sample analysis in Tables 1 and 2 of the “Results” section and Table 3 of the “Discussion” section. Any materials on the site not listed in the following tables should be considered suspect ACM until sample results indicate otherwise. Refer to *Appendix B* for PLM analytical results for suspect asbestos bulk samples.

2.2 Results

Utilizing the EPA protocol and criteria, the following materials were determined to be ACM:

Table 1
Asbestos-Containing Materials

Location	Material Type	Asbestos Content	Estimated Quantity	Sample No.
Roof	Roof Flashing	Assumed	Unknown	N/A

Utilizing the EPA protocol and criteria, the following materials were determined to be non-ACM:

Table 2
Non-Asbestos Containing Materials

Location	Material Type	Sample No.
Throughout Interior	Sheetrock & Taping/Joint Compound	0409BH01A-B, 02A-B, 03
Main Floor	Silver Backing on Furnace Insulation	0409BH04A-B
	Paper Backing on Wall Batting Insulation	0409BH05A-B
Kitchen	Ceramic Wall Tile, Grout and Thinset	0409BH06A-B, 07A-B, 08A-C
Main Floor	Vapor Barrier/Mastic under Hardwood Flooring	0409BH09A-B
Kitchen	White Sink Undercoating	0409BH25A-B
Furnace Room	Ceramic Wall Tile, Grout, & Thinset	0409BH10A-B, 11A-B, 12A-B
Main Floor Bath	Red Ceramic Floor Tile, Grout & Thinset	0409BH13A-B, 14A-B, 15A-B
Main Floor Bath—Shower	Grey Ceramic Wall Tile, Grout & Thinset	0409BH16A-B, 17A-B, 18A-B
	Ceramic Floor Tile, Grout & Thinset	0409BH19A-B, 20A-B, 21A-B
Building Exterior	Exterior Window Caulking Compound	0409BH22A-B
Exterior Roof	Exterior Roof Shingle	0409BH23A-B

2.3 Discussion

Sample analytical results are reported in percentages of asbestos and non-asbestos components. The EPA defines any material that contains more than one percent (1%) asbestos, utilizing PLM, as being an ACM. Materials that are identified as “none detected” are specified as not containing asbestos. It is usually recommended that materials identified as containing less than one percent (<1%) friable asbestos be analyzed further using the EPA point count method.

2.4 Conclusions

ACM that is identified in *Section 2.1 - Table 1* must be removed by a State of Connecticut-licensed Asbestos Abatement Contractor prior to building renovations that will disturb these materials. This is a requirement of the State of Connecticut Department of Public Health (CTDPH) Standards for Asbestos Abatement requirement.

The non-friable roofing material identified in *Section 2.1 - Table 1* has been de-regulated by the Connecticut Department of Public Health (CTDPH). The identified non-friable roofing material may be removed by either a CTDPH-licensed Asbestos Abatement Contractor, or by a roofing contractor provided they adhere to all Occupational Safety and Health Administration (OSHA) training requirements and EPA NESHAP regulatory requirements. All asbestos waste must be properly sealed (leak/airtight containers) and disposed in a landfill approved to accept asbestos waste. A licensed Asbestos Abatement Contractor is only required should the ACM be made friable and become a regulated ACM (RACM) by work activities. If the roofing material becomes RACM, then all applicable CTDPH regulations shall apply.

Note that materials containing trace amounts of asbestos (< 1%) asbestos are not regulated by the abovementioned regulations and standards with the exception of OSHA regulations with regard to worker exposure to asbestos. If disturbed, materials noted as containing < 1% asbestos will be subject to OSHA requirements to determine appropriate worker exposure and training requirements.

Roof Flashing –Roof flashing was not identified at skylights, along gutters and the roof drip line at the time of the inspection. Roof flashing exists at chimney, vent pipes and dormer windows and should be assumed to be ACM unless sample collection and analytical results indicate otherwise.

Note that since this asbestos inspection was limited, we recommend conducting a supplemental inspection of hidden and inaccessible areas (behind walls/beneath fixed floors, exterior foundation, etc.) prior to demolition/renovation activities. Any suspect material encountered during renovation activities that is not identified in this report as being non-ACM, should be assumed to be ACM unless sample collection and analysis indicate otherwise.

3 Lead-Based Paint Testing

EnviroScience conducted comprehensive testing for lead-based paint (LBP) within the Site structure. On April 9, 2014, EnviroScience representative Mr. Hobbins performed the testing. The purpose of the testing was for compliance with EPA's Renovation, Repair, and Painting Rule (RRP) located at Title 40 CFR, Parts 745.80 through 92, and the US Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R).

3.1 Methodology

A direct reading X-ray fluorescence (XRF) analyzer was used to perform the testing. The testing was conducted in accordance with the protocol outlined in the attached document: "Testing Procedures and Equipment" (refer to *Appendix C*).

For the purpose of this testing, various interior and exterior building components representing the initial painting history of the building, and any building-wide repainting by the owners/managers of these building components were tested. Individual repainting efforts are not discoverable in such a limited testing program. The purpose of this testing was to identify patterns and trends in the painting history of the building to determine if the EPA Toxicity Characteristic Leaching Procedure (TCLP) analysis is required for demolition debris prior to off-site disposal.

The building is constructed with a wood siding exterior with metal, wood, and vinyl window and door systems. The interior is composed of sheetrock with wood floors. The building was unoccupied at the time and date of the testing; no children under the age of six were present within the residence at time and date of the inspection.

3.2 XRF Testing Results

The testing indicated consistent painting patterns and trends throughout the building interiors and exteriors. No painted components were determined to contain toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter of paint [mg/cm²]).

The lead testing field data sheets are provided as *Appendix D* in this report.

3.3 Conclusions

Due to the absence of identified lead paint, sample collection of the anticipated waste stream for analysis using the TCLP method was not conducted. No lead hazards were identified, and therefore, a risk assessment was not performed.

Note that OSHA has not established a level of lead in a material below which Title 29 CFR, Part 1926.62 ("Lead in Construction") does not apply. The Contractor shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers and building occupants.

This inspection was performed as a comprehensive inspection of all representative surfaces within the residence that are scheduled to be disturbed and can be utilized to determine applicability requirements for the RRP rule on surfaces tested.

4 Assessment of PCB-Containing Fluorescent Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No-PCBs" must be assumed to contain PCBs, unless proven otherwise by quantitative analytical testing. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen and is listed under the EPA



Resource Conservation and Recovery Act (RCRA) and the Superfund law as a hazardous waste. Therefore, Superfund liability exists for land filling both PCB and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA, and require special handling and disposal requirements.

4.1 Methodology

On April 9, 2014, EnviroScience representative Mr. Hobbins performed a visual inspection of fluorescent light fixtures to identify possible PCB-containing ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCB's". Ballasts manufactured after 1991 were not listed as a PCB or DEHP-containing ballast, and not quantified for disposal. Ballasts without a "No PCB's" label are presumed to be PCB waste, and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP, and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied, and costs are slightly less for DEHP than PCB-containing light ballasts.

4.2 Results

Several of the light fixtures that were examined were not labeled neither with the manufacturer's information or a "No PCB's" label. However during the inspection, some types of light ballasts were labeled with a "No PCB's" label. Therefore, there is a mixture of assumed PCB-containing and non-PCB-containing light ballasts within the building areas inspected. .

4.3 Conclusions

If the renovation activities will disturb the materials, the ballasts not labeled "No PCBs" should be properly recycled as PCBs. The remaining ballasts that are labeled "No PCBs" should be properly recycled as assumed DEHP-containing waste.

5 Assessment of Mercury-Containing Devices

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by the EPA RCRA hazardous waste regulations. According to the EPA, mercury-containing lamps/tubes are considered a universal waste requiring all fluorescent lamps/tubes to either be recycled, or disposed as a hazardous waste.

5.1 Methodology

On April 9, 2014, EnviroScience representative Mr. Hobbins performed a visual in-place inventory of mercury lamps/tubes, thermostats, and mercury switches.

5.2 Results

One thermostat and no light bulbs/tubes, switches, or gauges were observed within the Site structure.

6 Mold Visual Assessment

On April 9, 2014, EnviroScience representative Mr. Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

No suspected mold growth was identified on building materials observed within the Site structure at the time and date of this inspection.

7 Airborne Radon Gas Information, Sampling and Procedure

7.1 Radon Facts and Health Effects

Radon is a naturally-occurring radioactive gas produced by the natural breakdown (decay) of uranium which is naturally occurring in soil and rock throughout the US. Radon gas travels through soil and enters buildings through cracks and other penetrations in building foundations. Eventually the gas itself decays into radioactive particles (decay products) that can become trapped in the lungs during human respiration. As these particles in turn decay they release small bursts of radiation which can damage lung tissue and lead to lung cancer over the course of a person's lifespan.

EPA studies have determined that radon gas concentrations in outdoor air average approximately 0.4 picoCuries per liter of air (pCi/L). However, radon and its decay products can accumulate to a much higher concentration inside a building. The EPA has adopted a recommended action level of 4.0 pCi/L; equal to or above which the EPA recommends that building owners take action to reduce the level of airborne radon with the building.

Radon is a colorless, odorless and tasteless gas, and thus, the only way to know whether or not an elevated level of radon gas is present in a building is to test the air for radon gas. The lowest living level of a dwelling should be measured, as even adjacent rooms can have significantly different levels of radon.

Again, radon is a known human carcinogen. Prolonged exposure to elevated radon concentrations causes an increased risk of lung cancer. Like other environmental pollutants, there is some uncertainty about the

magnitude of radon health risks. However, scientists are more certain about radon risks than risks from most other cancer-causing environmental pollutants as estimates of radon risk are based on studies of cancer in humans (underground miners). Additional studies on more typical, non-occupationally exposed, populations are underway.

EPA estimates that radon may cause about 14,000 lung cancer deaths in the US each year, with a range of 7,000 to 30,000. The US Surgeon General has warned that radon gas is the second-leading cause of lung cancer deaths after smoking, and is the leading cause among non-smokers.

7.2 Airborne Radon Sampling Methodology

From April 9, 2014 to April 11, 2014, EnviroScience's Mr. Hobbins deployed passive radon detection canisters in limited areas at the Site structure. The canisters were retrieved at least 48-hours, but not later than 96-hours later. The canisters were supplied by Radon Testing Corporation of America (RTCA).

It is recommended that such canisters be placed at least 20-inches from the floor and 12 inches away from exterior walls. Also, it is recommended that the canisters not be placed near drafts resulting from Heating, Ventilating and Air Conditioning (HVAC) intakes and returns, doors, and at least 36-inches from windows. Also, canisters should not be exposed to direct sunlight, be covered up, or otherwise disturbed during the testing period. A closed building condition is also utilized for 12-hours prior to testing being conducted.

Sample analysis was performed by RTCA; results are included in *Appendix E*.

7.3 Airborne Radon Quality Assurance Procedure

EPA strongly recommends that quality assurance measurements are included in radon measurement studies. Quality assurance measurements include side-by-side canisters (duplicates), and unexposed control canisters (blanks).

Duplicates are pairs of canisters deployed in the same location, side by side, for the same measurement period. Duplicates are placed in at least ten percent of all sampling locations. These duplicate canisters are stored, deployed, removed, and shipped to the laboratory for analysis in the same manner as the other canisters. If either or both of the analyses in a duplicate pairing is above the EPA standard of 4.0 pCi/L the relative percent difference (RPD) between the two tests must be determined. If the allowable difference is exceeded, the test is determined to be invalid and a new duplicate test must be run. If both canister results are below the EPA standard then the RPD is not calculated since, despite any disparity, both results are below the EPA standard.

Blanks are utilized to determine whether the manufacturing, shipping, storage, and processing of the canisters has affected the accuracy of airborne radon gas sampling procedures. Blanks are unopened, unexposed canisters that are deployed with and shipped with the exposed canisters, so the processing

laboratory treats them without bias. The number of blanks is at least five percent of the total number of canisters deployed, up to a maximum of 25 canisters.

7.4 Airborne Radon Analytical Results

Four canisters, including one duplicate and one blank, were placed in target locations within the Site structure during sampling that was performed between April 9, 2014 and April 11, 2014. The radon gas concentrations in the samples collected during the assessment were all 0.1 pCi/L. The EPA recommended action level for radon gas is 4.0 pCi/L.

In *Table 3* below, the locations and results of quality control duplicate tests are listed for the sampling conducted from April 7, 2014 to April 9, 2014:

Table 3
Duplicate Samples Results – April 9, 2014 – April 11, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Kitchen	2314080 & 2313917	0.1	0.1	0.1	Percent Difference Not Needed (No Concentrations Above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 4*, the locations and results of quality control blank tests for April 9, 2014 to April 11, 2014 are listed.

Table 4
Blank Samples Results – April 9, 2014 – April 11, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Furnace Room	2314656	0.1

Note Blank testing results were satisfactory

In *Table 5*, below, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted from April 9, 2014 to April 11, 2014:

Table 5
Radon Sampling Results – April 9, 2014 – April 11, 2014

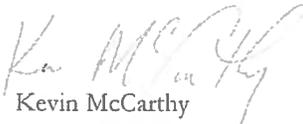
Location	Canister Numbers	Radon Concentration (pCi/Liter)
Kitchen	2314080	0.1
Furnace Room	2313978	0.1

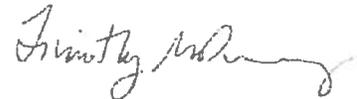
7.5 Conclusions

During the course of the initial radon measurement assessment, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within the Site structure. Of the four samples analyzed, the analytical results of each of the samples collected were below EPA recommended action guideline of 4.0 pCi/L. No further action regarding radon gas is required.

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:


Kevin McCarthy
Project Manager

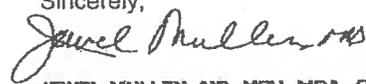

Timothy M. Downey
Senior Project Manager

Appendix A

Fuss & O'Neill EnviroScience State Licenses, Certifications and Accreditations

0001088 FP --PRSR T5 0 0554 06040
 JOHN R. HOBBS
 C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
 146 HARTFORD ROAD
 MANCHESTER CT 06040

Dear Licensed/Certified Professional,
 Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:
 Department of Public Health (860) 509-7603
 P.O. Box 340308
 M.S.#12MGA <http://www.dph.state.ct.us>
 Hartford, CT 06134-0308

Sincerely,

 JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
 DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

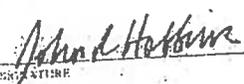
1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

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

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

JOHN R. HOBBS

LICENSE NO. 000700
 CURRENT THROUGH 01/31/15
 VALIDATION NO. 03-708142

 SIGNATURE
 COMMISSIONER

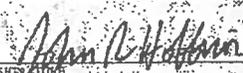
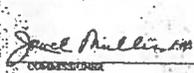
EMPLOYER'S COPY

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
 JOHN R. HOBBS

VALIDATION NO. 03-708142
 LICENSE NO. 000700
 CURRENT THROUGH 01/31/15

PROFESSION
 ASBESTOS CONSULTANT-INSPECTOR

 SIGNATURE
 COMMISSIONER

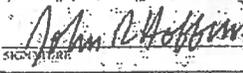
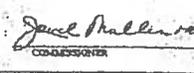
WALLET CARD

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
 JOHN R. HOBBS

VALIDATION NO. 03-708142
 LICENSE NO. 000700
 CURRENT THROUGH 01/31/15

PROFESSION
 ASBESTOS CONSULTANT-INSPECTOR

 SIGNATURE
 COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 (860) 646-2469

This is to certify that

John Robert Hobbins

XXX-XX-6853

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski
John Rowinski, Principal Instructor

September 4, 2013

Date of Course

September 4, 2013; B-

Examination Date & Grade

Robert L. May, Jr.
Robert L. May, Jr., Training Manager

AI-R-09/13-6

Certificate Number

September 4, 2014

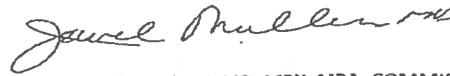
Expiration Date

John R. Hobbins
 C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
 146 HARTFORD ROAD
 MANCHESTER, CT 06040

Dear Licensed/Certified Professional,
 Attached you will find your validated license/certification
 for the coming year. Should you have any questions about
 your license/certificate renewal, please do not hesitate to
 write or call:

Department of Public Health (860) 509-7603
 P.O. Box 340308
 M.S.#12MQA <http://www.dph.state.ct.us>
 Hartford, CT 06134-0308

Sincerely,



JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
 DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

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

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

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH
 PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

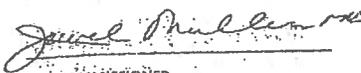
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
 BY THIS DEPARTMENT AS A
 Lead Inspector

John R. Hobbins

CERTIFICATION NO.
 2156

CURRENT THROUGH
 01/31/2015

VALIDATION NO.
 DUPLICATE



COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

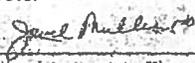
NAME
 John R. Hobbins

VALIDATION NO. 2156
 DUPLICATE

CERTIFICATION NO. 2156
 PROFESSION

CURRENT THROUGH
 01/31/2015

Lead Inspector



COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

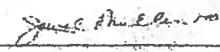
NAME
 John R. Hobbins

VALIDATION NO. 2156
 DUPLICATE

CERTIFICATION NO. 2156
 PROFESSION

CURRENT THROUGH
 01/31/2015

Lead Inspector



COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

John Robert Hobbins
97 Montowese Street, Branford, CT 06405
000-00-6853

has successfully completed the

INSPECTOR REFRESHER

*Training Course
conducted by
Cardno ATC*

73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Neal S. Freuden

Principal Instructor: Neal Freuden

January 30, 2014
Date of Course

January 30, 2014
Exam Date

CTLIR-205
Certificate Number

January 30, 2015
Expiration Date

Gregory J. Morsch

Training Manager: Gregory Morsch

*Training received complies with the requirements of the
Connecticut Department of Public Health pursuant to Section
477 of the Connecticut General Statutes.*

0001572 FP **PRSRT TO 0 1664 08040
JAMES B BLUM
FUSS & O'NEILL ENVIROSCIENCE LLC
146 HARTFORD RD
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,
 Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
 P.O. Box 240288
 163-212888A <http://www.dph.state.ct.us>
 Hartford, CT 06131-0288

Sincerely,

JANET MILLER, MD, MPH, MBA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

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

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

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

JAMES B BLUM

LICENSE NO. 000041
 CURRENT THROUGH 11/30/14
 VALIDATION NO. 03-881437

 
 COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

JAMES B BLUM

VALIDATION NO. 03-881437
 LICENSE NO. 000041
 CURRENT THROUGH 11/30/14

ASBESTOS CONSULTANT INSPECTOR

 
 COMMISSIONER

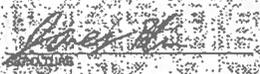
WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

JAMES B BLUM

VALIDATION NO. 03-881437
 LICENSE NO. 000041
 CURRENT THROUGH 11/30/14

ASBESTOS CONSULTANT INSPECTOR

 
 SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 - (860) 646-2469

This is to certify that

James Blum

XXXXXX1625

has successfully completed the

4-Hour Asbestos Inspector Refresher

Asbestos Assessment under PSCA Title II

40 CFR Part 706

John Rowinski
John Rowinski, Principal Instructor

Robert L. Mosy, Jr.
Robert L. Mosy, Jr., Training Manager

September 4, 2013

Date of Course

AI R-09/13-2

Certificate Number

September 4, 2013, A

Expiration Date & Credit

September 4, 2014

Expiration Date

0001674 FP **PRSRT TO D 1584 06040
JAMES B BLUM
 FUSS & O'NEILL ENVIROSCIENCE LLC
 146 HARTFORD RD
 MANCHESTER CT 06040-5992

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 Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
 P.O. Box 548508
 M.S. #12880A <http://www.dph.state.ct.us>
 Hartford, CT 06131-0308

Sincerely,



JANET MULLEN, MD, MPH, MPA, COMMISSIONER
 DEPARTMENT OF PUBLIC HEALTH

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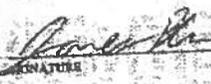
STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

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

LEAD INSPECTOR

JAMES B BLUM

CERTIFICATION NO. 002207
 CURRENT THROUGH 11/30/14
 VALIDATION NO. 03-681439

 SIGNATURE
 COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
JAMES B BLUM

VALIDATION NO. 03-681439
 CERTIFICATION NO. 002207
 CURRENT THROUGH 11/30/14
 PROFESSION
LEAD INSPECTOR

 SIGNATURE
 COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
JAMES B BLUM

VALIDATION NO. 03-681439
 CERTIFICATION NO. 002207
 CURRENT THROUGH 11/30/14
 PROFESSION
LEAD INSPECTOR

 SIGNATURE
 COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 - (860) 646-2469

This is to certify that

James Blum

XXX-XX-1625

has successfully completed the
8 Hour Lead Inspector Risk Assessor Refresher Course
(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.



Brian Santos, Principal Instructor

February 20 & 25, 2014

Date of Course

February 25, 2014

Examination Date



Robert L. May, Jr., Training Manager

LIRA-R-02/14-3

Certificate Number

February 25, 2015

Expiration Date

Appendix B

Asbestos Sample Results and Chain of Custody Forms



FUSS & O'NEILL
EnviroScience, LLC

041410159

www.fando.com

146 Hartford Road, Manchester, CT 06040

Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 9

Project Name: QA Residence Rehab-12 Cooper Avenue, Milford, CT Project No. 20140277.A4E

Building: 12 Cooper Avenue Project Manager: McCarthy

Sample ID	Sample Location	Material	Result (%)
0409BH01A	Main Floor	Sheetrock	None Detected 2014 APR 16 AM 10:30 EMSL CINNAMINSON, N.J.
0409BH01B	Main Floor	Sheetrock	
0409BH02A	Main Floor	Taping/Joint Compound	
0409BH02B	Main Floor	Taping/Joint Compound	
0409BH03	Main Floor	Sheetrock Taping/Joint Compound Composite	
0409BH04A	Main Floor	Silver Backing on Furnace Insulation	
0409BH04B	Main Floor	Silver Backing on Furnace Insulation	
0409BH05A	Main Floor	Paper Backing on Wall Fiberglass Insulation	
0409BH05B	Main Floor	Paper Backing on Wall Fiberglass Insulation	
0409BH06A	Main Floor Kitchen	Ceramic Wall Tile	
0409BH06B	Main Floor Kitchen	Ceramic Wall Tile	
0409BH07A	Main Floor Kitchen	Ceramic Wall Tile Thinset	
0409BH07B	Main Floor Kitchen	Ceramic Wall Tile Thinset	
0409BH08A	Main Floor Kitchen	Ceramic Wall Tile Grout	
0409BH08B	Main Floor Kitchen	Ceramic Wall Tile Grout	

Analysis Method: PLM Other

Turnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: . Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4% positive stop on all point counts.

Samples collected by: B. Holman's Date: 4-9-14 Time:

Samples [Rec'd][Sent by] [BA] Date: [4-15] Time:

Samples Received by: VC Fx Date: 4-16-14 Time: 9:55

Shipped To: EMSL State NJ Other

Method of Shipment: FedEx Other

49mk

***** Two USA and 05B's received.
Second set added to end of COC
and changed number to 25A and 25B
AK 4/16/14 1015



FUSS & O'NEILL
EnviroScience, LLC

OC/14/10/159

www.fando.com

146 Hartford Road, Manchester, CT 06040

Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 4

Project Name: QA Residence Rehab-12 Cooper Avenue, Milford, CT Project No. 20140277.A4E

Building: 12 Cooper Avenue Project Manager: McCarthy

Sample ID	Sample Location	Material	Result (%)
0409BH09A	Main Floor	Vapor Barrier/Mastic under Wood Flooring	None Detected 2014 APR 16 A: 10:30 RECEIVED EMSL CINNAMINSON, N.J.
0409BH09B	Main Floor	Vapor Barrier/Mastic under Wood Flooring	
0409BH10A	Furnace Room	Ceramic Floor Tile	
0409BH10B	Furnace Room	Ceramic Floor Tile	
0409BH11A	Furnace Room	Ceramic Floor Tile Grout	
0409BH11B	Furnace Room	Ceramic Floor Tile Grout	
0409BH12A	Furnace Room	Ceramic Floor Tile Thinset	
0409BH12B	Furnace Room	Ceramic Floor Tile Thinset	
0409BH13A	Main Floor Bathroom	Ceramic Floor Tile Grout	
0409BH13B	Main Floor Bathroom	Ceramic Floor Tile Grout	
0409BH14A	Main Floor Bathroom	Red Ceramic Floor Tile	
0409BH14B	Main Floor Bathroom	Red Ceramic Floor Tile	
0409BH15A	Main Floor Bathroom	Ceramic Floor Tile Grout Thinset	
0409BH15B	Main Floor Bathroom	Ceramic Floor Tile Grout Thinset	
0409BH16A	Main Floor Bathroom-Shower	Grey Ceramic Wall Tile	

Analysis Method: PLM Other Turnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4%, positive stop on all point counts.

Samples collected by: R. Higgins Date: 4-9-14 Time: _____

Samples [Rec'd][Sent by] [BT] Date: [4-15] Time: _____

Samples Received by: _____ Date: _____ Time: _____

Shipped To: EMSL State NJ Other _____

Method of Shipment: FedEx Other _____



FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

04/14/10/159

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 3 of 4

Project Name: QA Residence Rehab-12 Cooper Avenue, Milford, CT Project No. 20140277.A4E

Building: 12 Cooper Avenue Project Manager: McCarthy

Sample ID	Sample Location	Material	Result (%)
0409BH16B	Main Floor Bathroom-Shower	Grey Ceramic Wall Tile	None Detected
0409BH17A	Main Floor Bathroom-Shower	Ceramic Wall Tile Thinset	2014 APR 16 A 10:30 RECEIVED EMSL CINNAMISON, N.J.
0409BH17B	Main Floor Bathroom-Shower	Ceramic Wall Tile Thinset	
0409BH18A	Main Floor Bathroom-Shower	Ceramic Wall Tile Grout	
0409BH18B	Main Floor Bathroom-Shower	Ceramic Wall Tile Grout	
0409BH19A	Main Floor Bathroom-Shower	Ceramic Floor Tile	
0409BH19B	Main Floor Bathroom-Shower	Ceramic Floor Tile Grout	
0409BH20A	Main Floor Bathroom-Shower	Ceramic Floor Tile Grout	
0409BH20B	Main Floor Bathroom-Shower	Ceramic Floor Tile Thinset	
0409BH21A	Main Floor Bathroom-Shower	Ceramic Floor Tile Thinset	
0409BH21B	Main Floor Bathroom-Shower	Ceramic Floor Tile Thinset	
0409BH22A	Exterior of Building	Exterior Window Caulking Compounds	
0409BH22B	Exterior of Building	Exterior Window Caulking Compounds	
0409BH23A	Exterior Roof	Roof Shingles	
0409BH23B	Exterior Roof	Roof Shingles	

Analysis Method: PLM Other

Turnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4% positive stop on all point counts.

Samples collected by: R. Higgins Date: 4-9-14 Time: _____

Samples [Rec'd][Sent by] [BLA] Date: [4-15] Time: _____

Samples Received by: _____ Date: _____ Time: _____

Shipped To: EMSL State NJ Other _____

Method of Shipment: FedEx Other _____



FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

04/14/10/59

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Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 4 of 4

Project Name: QA Residence Rehab-12 Cooper Avenue, Milford, CT Project No. 20140277.A4E
Building: 12 Cooper Avenue Project Manager: McCarthy

Sample ID	Sample Location	Material	Result (%)
0409BH24A	Exterior Roof	Base Sheet/Tar	None Detected
0409BH24B	Exterior Roof	Base Sheet/Tar	
25A	Kitchen	White Sink Undercoating	A
25B	Kitchen	White Sink Undercoating	
			RECEIVED EMSL CINNAMINSON, N.J. 2014 APR 16 A 10:30

Analysis Method: PLM Other Turnaround Time 24 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4% positive stop on all point counts.

Samples collected by: R.A Date: 4-9-14 Time: _____

Samples [Rec'd][Sent by] [BA] Date: [4-15] Time: _____

Samples Received by: _____ Date: _____ Time: _____

Shipped To: EMSL State NJ Other _____

Method of Shipment: FedEx Other _____

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 041410159
 CustomerID: ENVI54
 CustomerPO:
 ProjectID:

Attn: **Kevin McCarthy** Phone: (860) 646-2469
Fuss & O'Neill EnviroScience, LLC Fax: (888) 838-1160
146 Hartford Road Received: 04/16/14 9:55 AM
Manchester, CT 06040 Analysis Date: 4/17/2014
 Collected: 4/9/2014

Project: 20140277.A4E QA Residence Rehab-12 Cooper Avenue, Milford, 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
0409BH01A 041410159-0001	Main floor - sheetrock	Brown/White Fibrous Heterogeneous	15% Cellulose 3% Glass	82% Non-fibrous (other)	None Detected
This is a composite result of wallboard and joint compound					
0409BH01B 041410159-0002	Main floor - sheetrock	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (other)	None Detected
0409BH02A 041410159-0003A	Main floor - joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH02B 041410159-0004	Main floor - taping/joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH03 041410159-0005	Main floor - sheetrock taping/joint compound composite	White/Belge Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
0409BH04A 041410159-0006	Main floor - silver backing on furnace insulation	Silver Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (other)	None Detected
0409BH04B 041410159-0007	Main floor - silver backing on furnace insulation	Silver Non-Fibrous Homogeneous	3% Glass	97% Non-fibrous (other)	None Detected
0409BH05A 041410159-0008	Main floor - paper backing on wall fiberglass insulation	Brown/Black Fibrous Homogeneous	75% Cellulose 15% Glass	10% Non-fibrous (other)	None Detected

Analyst(s)

Felix Anusiem (23) Will DiBella (27)
 Jennifer Matterno (1)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 88-00367

Initial report from 04/17/2014 08:44:28



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnasblab@EMSL.com

EMSL Order: 041410159
CustomerID: ENVI54
CustomerPO:
ProjectID:

Attn: **Kevin McCarthy**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469
Fax: (888) 838-1160
Received: 04/16/14 9:55 AM
Analysis Date: 4/17/2014
Collected: 4/9/2014

Project: 20140277.A4E QA Residence Rehab-12 Cooper Avenue, Milford, 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
0409BH05B 041410159-0009	Main floor - paper backing on wall fiberglass insulation	Brown/Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
0409BH06A 041410159-0010	Main floor kitchen - ceramic wall tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH06B 041410159-0011	Main floor kitchen - ceramic wall tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH07A 041410159-0012	Main floor kitchen - ceramic wall tile thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH07B 041410159-0013	Main floor kitchen - ceramic wall tile thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH08A 041410159-0014	Main floor kitchen - ceramic wall tile grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH08B 041410159-0015	Main floor kitchen - ceramic wall tile grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH09A-Vapor Barrier 041410159-0016	Main floor kitchen - vapor barrier under wood flooring	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

Analyst(s)

Felix Anusiem (23) Will DiBella (27)
Jennifer Mattero (1)

Stephen Siegel, CIH, Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP Q3036, PA ID# 88-00367

Initial report from 04/17/2014 08:44:28

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 788-5974
<http://www.EMSL.com> cinnaslab@EMSL.com

EMSL Order: 041410159
 CustomerID: ENVI54
 CustomerPO:
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Attn: **Kevin McCarthy**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469
 Fax: (888) 838-1160
 Received: 04/16/14 9:55 AM
 Analysis Date: 4/17/2014
 Collected: 4/9/2014

Project: 20140277.A4E QA Residence Rehab-12 Cooper Avenue, Millford, 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
0409BH09A-Mastic 041410159-0016A	Main floor kitchen - mastic under wood flooring	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH09B-Vapor Barrier 041410159-0017	Main floor kitchen - vapor barrier under wood flooring	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
0409BH09B-Mastic 041410159-0017A	Main floor kitchen - mastic under wood flooring	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH10A 041410159-0018	Furnace room - ceramic floor tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH10B 041410159-0019	Furnace room - ceramic floor tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH11A 041410159-0020	Furnace room - ceramic floor tile grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH11B 041410159-0021	Furnace room - ceramic floor tile grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH12A 041410159-0022	Furnace room - ceramic wall tile thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Felix Anusiem (23) Will DiBella (27)
 Jennifer Mattern (1)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00387

Initial report from 04/17/2014 08:44:28

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Attn: **Kevin McCarthy**
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146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469
 Fax: (888) 838-1160
 Received: 04/16/14 9:55 AM
 Analysis Date: 4/17/2014
 Collected: 4/9/2014

Project: 20140277.A4E QA Residence Rehab-12 Cooper Avenue, Milford, 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
0409BH12B 041410159-0023	Furnace room - ceramic wall tile thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH13A 041410159-0024	Main floor bathroom - ceramic floor tile grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH13B 041410159-0025	Main floor bathroom - ceramic floor tile grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH14A 041410159-0026	Main floor bathroom - red ceramic floor tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH14B 041410159-0027	Main floor bathroom - red ceramic floor tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH15A 041410159-0028	Main floor bathroom - ceramic floor tile grout thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH15B 041410159-0029	Main floor bathroom - ceramic floor tile grout thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH16A 041410159-0030	Main floor bathroom - shower - grey ceramic wall tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Felix Anusiem (23) Will DiBella (27)
 Jennifer Mattero (1)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 88-00367

Initial report from 04/17/2014 08:44:28

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> cinnasblab@EMSL.com

EMSL Order: 041410159
 CustomerID: ENVI54
 CustomerPO:
 ProjectID:

Attn: **Kevin McCarthy**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469
 Fax: (888) 838-1160
 Received: 04/16/14 9:55 AM
 Analysis Date: 4/17/2014
 Collected: 4/9/2014

Project: 20140277.A4E QA Residence Rehab-12 Cooper Avenue, Millford, 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
0409BH16B 041410159-0031	Main floor bathroom-shower - grey ceramic wall tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH17A 041410159-0032	Main floor bathroom-shower - ceramic wall tile thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH17B 041410159-0033	Main floor bathroom-shower - ceramic wall tile thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH18A 041410159-0034	Main floor bathroom-shower - ceramic wall tile grout	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH18B 041410159-0035	Main floor bathroom-shower - ceramic wall tile grout	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH19A 041410159-0036	Main floor bathroom-shower - ceramic wall tile	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH19B 041410159-0037	Main floor bathroom-shower - ceramic wall tile grout	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Felix Anusiem (23) Will DiBalla (27)
 Jennifer Mattero (1)

Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03038, PA ID# 68-00367

Initial report from 04/17/2014 08:44:28

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
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EMSL Order: 041410159
 CustomerID: ENVI54
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Project: 20140277.A4E QA Residence Rehab-12 Cooper Avenue, Milford, 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
0409BH23B 041410159-0045	Exterior roof - roof shingles	Gray/Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
0409BH24A 041410159-0046	Kitchen - base sheet/tar	Black Fibrous Homogeneous	25% Cellulose 25% Glass	50% Non-fibrous (other)	None Detected
0409BH24B 041410159-0047	Kitchen - base sheet/tar	Black Fibrous Homogeneous	5% Cellulose 20% Glass	75% Non-fibrous (other)	None Detected
0409BH25A 041410159-0048	Kitchen - white sink undercoating	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0409BH25B 041410159-0049	Kitchen - white sink undercoating	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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

Initial report from 04/17/2014 08:44:28

Appendix C

Lead Paint Testing Procedures and Equipment

Standard Operating Procedures HUD and State of Connecticut Lead-Based Paint Inspections

Testing Procedures and Equipment

The U. S. Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead Hazards in Housing, September 1997" were consulted for this lead evaluation. HUD has been the agency at the federal level with responsibility for the establishment of national lead-based paint standards for testing and abatement. The HUD document will be referenced as the Guidelines in this report. The State of Connecticut Department of Public Health's current lead regulations, Lead Poisoning Prevention and Control (19a-111-1 through 19a-111-11) were also consulted.

This lead evaluation was comprehensive. A comprehensive inspection means that representative painted surfaces were systematically evaluated on a room-by-room basis in accordance with the Guidelines and the State of Connecticut regulations.

Lead-based paint surfaces and components were identified by utilizing on-site x-ray fluorescence (XRF) instruments. EnviroScience Consultants, Inc. owns and utilizes Radiation Monitoring Device LPA-1s (RMD instruments) exclusively for lead-based paint testing. Each instrument is operated in accordance with state and federal and manufacturer standards on the use of the instruments. State and federal protocols provide, with the exception of wall surfaces, one reading with the instrument on a representative component in each room, i.e., baseboard, chair rail, etc., as sufficient to establish the lead paint classification of all the representatives of that component type in a room. In the case of walls, because of the large spatial areas involved and the variability in lead content in paint over such large areas, the federal and state governments want a reading on each wall surface in a room. Therefore, representative testing is not permitted for walls.

The federal government has developed Performance Characteristic Sheets (PCS) for the type of instrument cited above. Each instrument must be calibrated in accordance with these PCSs on a 1.0-milligram lead standard. Each of EnviroScience's instruments has one of these standards assigned to it. Some of the standards were purchased directly from the government and the others from the manufacturers of the instruments.

For the RMD in the standard reading mode on metal, a Substrate Equivalent Lead (SEL) concentration has to be determined. To determine the SEL, the paint is removed from the surface of the component to obtain a bare substrate reading. After removing the paint, the surface is wiped with a 5% trisodium phosphate solution (a heavy duty cleaner). All paint residue is collected and properly disposed. Once the paint and surrounding area are cleaned, the XRF is utilized to determine the SEL for each surface. The SEL values are subtracted from the XRF values to determine the Corrected Lead Concentration (CLC). The CLC is the lead content of the paint on the component tested.

The RMD instrument has federal government-determined positive and negative ranges for the definition of lead-based paint. XRF results are classified using either the threshold or the inconclusive range. For the threshold, results are classified as positive if they are greater than or equal to the threshold and negative if they are less than the threshold. There is no inconclusive

classification when using the threshold values associated with an RMD instrument. The ranges for the RMD instrument and their various operating modes are as follows:

Radiation Monitoring Device LPA Analyzer 1

30-Second Standard Mode Reading Description	Substrate	Threshold (mg/cm ²)
Results corrected for substrate bias on metal substrate only.	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

Quick Mode Reading Description	Substrate	Threshold (mg/cm ²)	Inconclusive Range (mg/cm ²)
Readings not corrected for substrate bias on any substrate.	Brick	1.0	None
	Concrete	1.0	None
	Drywall	1.0	None
	Metal	1.0	None
	Plaster	1.0	None
	Wood	1.0	None

Prior to the start of any testing, a sketch of the building is drawn, and side designations are given to help identify exactly where readings were taken. Drawings depicting the room-numbering scheme are located on the cover page(s) for the building(s) inspected. Each side of the building was labeled A, B, C, or D. The wall "A" side of the unit is generally the side of primary entrance into a dwelling, and this room is always Room 1. Areas in the units include rooms, hallways, and closets. Areas are numbered in a clockwise fashion as building construction allows. This allows the inspector to indicate which substrate surface was tested. The condition of the surface is described by a check mark in the appropriate column, under the heading "condition of surface" on the testing form.

When more than one surface type was present on a side, the component tested was indicated with a number. If two windows were present on a building side, they were numbered left to right. Closet shelves and shelf supports were numbered top to bottom.

It is understood that the room layouts presented in the report are in conformance with the conditions that exist at the time the testing is performed. EnviroScience avoids labeling a room solely by its current functional use (i.e., living room, bedroom, etc.) since this use can change over time. Similarly, room layouts can change dramatically as dwellings are renovated and additions are built, incorporating existing rooms, or existing interior walls are moved or eliminated altogether.

Appendix D

Lead Testing Field Data Sheets



LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins License Number: 2156
 XRF Model: LPA - 1B Serial Number: 1377
 Date of Inspection: April 9, 2014 Project Number: 20140277.A4E

Property Information

Building Address: 12 Cooper Avenue
 (Street)
Milford CT Age of Property: N/A
 (City) (State)

Describe Structure:

Sheetrock ceilings and walls with wood /metal window and door systems and wood floors
Exterior wood siding and concrete foundation

- Are there lead hazards present? Yes No
 Were lead dust wipes taken? Yes No
 Were soil samples collected? Yes No
 Were drinking water samples collected? Yes No

Multiple Family Dwelling

Single Family Dwelling

Is there an EBL child present?
 Yes No Unknown
 Is there a child under six years of age in the dwelling?
 Yes No Unknown

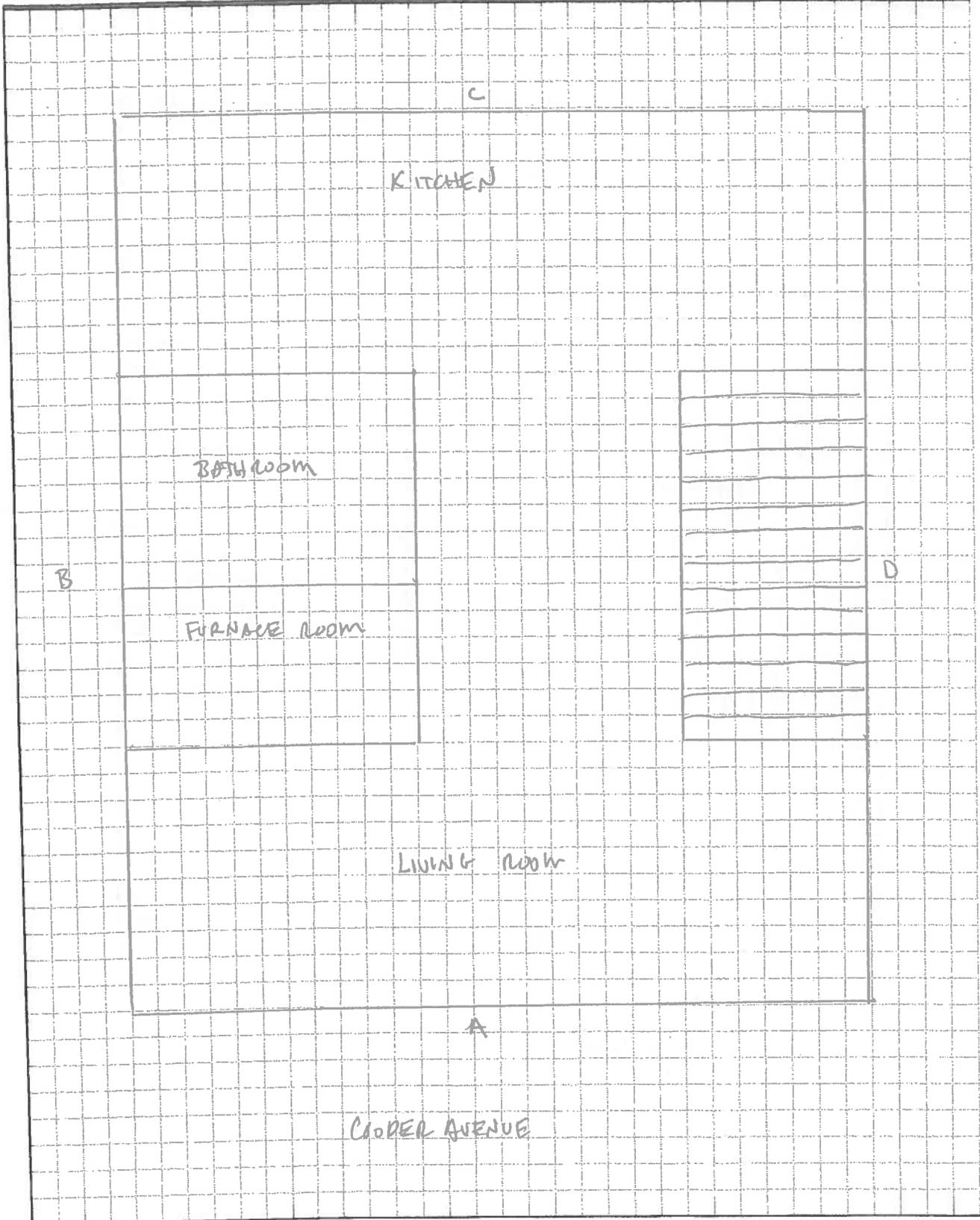
Number of units in building: _____
 Number of units tested: _____
 Is there an EBL child present in the building?
 Yes No Unknown
 If EBL child, which unit(s)? _____
 Is there a child under six years of age in the building?
 Yes No Unknown
 If child under six, which unit(s)? _____

XRF Calibration Check

- Calibration Paint Film Used: NIST 1.02 mg/cm² Manufacturer's Standard 1.0 mg/cm²
 Calibration Check Limits Used: RMD (0.7 to 1.3 mg/cm² inclusive)
 Scitec MAP4 (0.6 to 1.2 mg/cm² inclusive)

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0910	1.1	1.2	1.2	1.16
Second Check	1030	1.0	1.2	1.1	1.10
Third Check	1130	1.0	1.1	1.0	1.03
Fourth Check					

MAIN FLOOR





FUSS & O'NEILL

Prepared By

Date

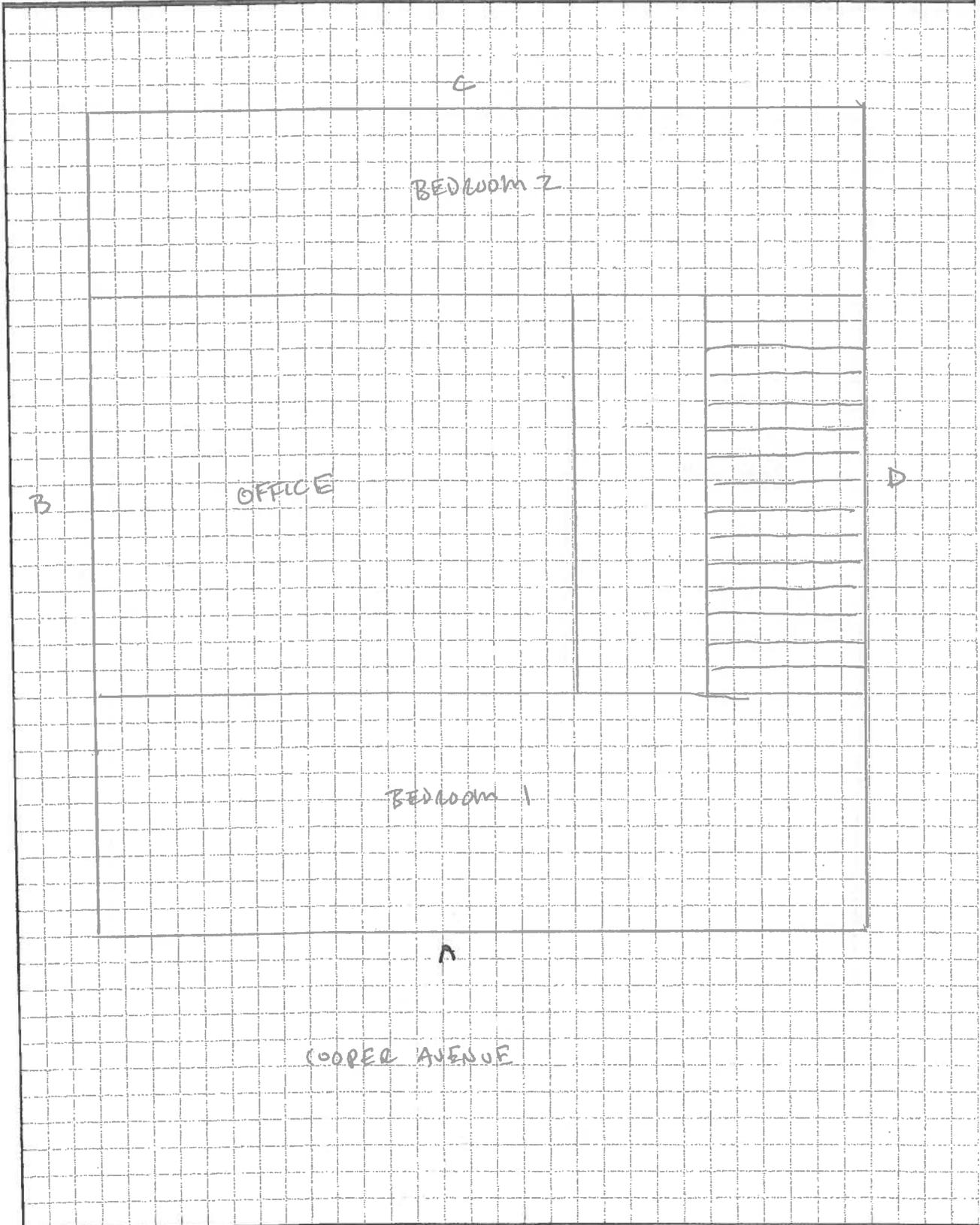
Checked By

Date

Project No

2ND FLOOR

Sheet No
of





XRF FIELD DATA SHEET - INTERIOR ROOM

Address: 12 Cooper Avenue, Milford, CT

Apt. #: _____

Floor: 2nd Room: EDR 1

Page 1 of 12

Project Name: 12 Cooper Avenue Project Number: 20140277.A4E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.0		W					
A	Wall	-0.1		SP					
B	Wall	-0.1		SP					
C	Wall	-0.0		SP					
D	Wall	0.1		SP					
	Chair rail								
	Ceiling	-0.2		SP					
	Crown Molding								
	Door	-0.1		W					
	Casing	0.1		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.3		W					
	Sill	0.1		W					
	Sash	0.1		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.1		W					Closet
	Shelf Supports	0.0		W					A wall 0.1 SR
	Radiator								B 0.2
	Wall Molding								C -0.1
									D + -0.0

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes: _____



XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 12 Cooper Avenue, Milford, CT

Apt. #: _____

Floor: BDR 2 2nd Room: _____

Page 3 of 12

Project Name: 12 Cooper Avenue Project Number: 20140277.A4E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	0.1		W					
A	Wall	0.0		SR					
B	Wall	0.1		SR					
C	Wall	0.0		SR					
D	Wall	0.1		SR					
	Chair rail								
	Ceiling	0.1		SR					
	Crown Molding								
	Door	0.0		W					
	Casing	0.1		W					
	Jamb	0.0		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.1		W					
	Sill	0.0		W					
	Sash	0.0		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	0.0		W					Absent
	Shelf Supports	0.0		W					A 0.1 SR WALL B 0.3 C 0.1 D 0.0
	Radiator								
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes: _____



XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 12 Cooper Avenue, Milford, CT
 Floor: _____ Room: Stairwell
 Project Name: 12 Cooper Avenue Project Number: 20140277.A4E
 Project Manager: K. McCarthy (If Positive - Check All That Apply)

Apt. #: _____
 Page 4 of 12

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall								
B	Wall								
C	Wall								
D	Wall								
	Chair rail								
	Ceiling	0.1		SR					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Waynes Clit.	0.1		W					
	RISV	0.1		W					
	Stanger	0.1		W					

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
 N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes: _____



XRF FIELD DATA SHEET - INTERIOR ROOM

Address: 12 Cooper Avenue, Milford, CT

Apt. #: _____

Floor: BATH 1ST Room: _____

Page 7 of 12

Project Name: 12 Cooper Avenue Project Number: 20140277.A4E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.1		SL					
B	Wall	0.0		SL					
C	Wall	0.2		SL					
D	Wall	0.1		SL					
	Chair rail								
	Ceiling								
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door	0.1		W					
	Casing	0.2		W					
	Jamb	0.4		W					
	Window Trim	0.1		W					
	Sill								
	Sash								
	Well								
	Cabinet Base	0.1		W					
	Door Exterior								
	Door Interior	0.0		W					
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	wall	0.1		W					

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B

N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes: _____



XRF FIELD DATA SHEET - INTERIOR ROOM

Address: 12 Cooper Avenue, Milford, CT

Apt. #: _____

Floor: 1st Room: kitchen

Page 8 of 12

Project Name: 12 Cooper Avenue Project Number: 20140277.A4E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.1		SR					
B	Wall	0.0		SR					
C	Wall	-0.1		SR					
D	Wall	0.1		SR					
	Chair rail								
	Ceiling	0.1		SR					
	Crown Molding								
	Door	NP							
	Casing	-0.1		W					
	Jamb	NP							
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Wall-tile	-0.1		Ceramic					

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes: _____



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146 Hartford Road, Manchester, CT 06040

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XRF FIELD DATA SHEET - EXTERIOR OF SIDE A

Address: 12 Cooper Avenue, Milford, CT

Page 9 of 12

Project Name: 12 Cooper Avenue

Project Number: 20140277.A4E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	-0.0		W					
	Corner Boards	0.0		W					
	Siding	-0.0		W					
	Upper Trim								
	Door	0.0		W					
	Casing	-0.0		W					
	Jamb	0.1		W					
	Threshold	-0.0		W					
	Kick Board								
	Storm Door								
	Window Sill								
	Trim	-0.0		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								



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XRF FIELD DATA SHEET - EXTERIOR OF SIDE B

Address: 12 Cooper Avenue, Milford, CT

Page 10 of 12

Project Name: 12 Cooper Avenue

Project Number: 20140277.A4E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	0.1		W					
	Corner Boards	0.0		W					
	Siding	0.0		W					
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim	0.0		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								



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XRF FIELD DATA SHEET - EXTERIOR OF SIDE C

Address: 12 Cooper Avenue, Milford, CT

Page 12 of 13

Project Name: 12 Cooper Avenue

Project Number: 20140277.A4E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	0.0		W					
	Corner Boards	0.1		W					
	Siding	0.0		W					
	Upper Trim								
	Door	-0.0		W					
	Casing	0.0		W					
	Jamb	ND							
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	0.1							
	Trim	0.1		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

Soft 0.1 W



FUSS & O'NEILL EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

(860) 646-2469 Fax (860) 649-6883

XRF FIELD DATA SHEET - EXTERIOR OF SIDE D

Address: 12 Cooper Avenue, Milford, CT

Page 14 of 14

Project Name: 12 Cooper Avenue

Project Number: 20140277.A4E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	-0.0		W					
	Corner Boards	0.0		W					
	Siding	-0.0		W					
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim	0.1		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

Appendix E

Airborne Radon Gas Assessment Results and Chain of Custody Forms



FUSS & O'NEILL
EnviroScience, LLC

4/14/14

ENVIII

DE

Radon Testing Summary Sheet

Contact/Phone #: Kevin McCarthy/203-374-3748 x3533

Placed by: B Hobbins

Project #: 20140277.A4E

Retrieved by: ~~4-9-14~~ BH

Building: 12 Cooper Avenue

Start Date: 4-9-14

Address: 12 Cooper Avenue

Stop Date: 4-11-14 per Bb #11511486

Milford, CT 06460

Weather at Placement: Sunny - 45°

email results to kmccarthy@fando.com

Instructions: Tear off center bar coded label from canister and affix to sheet in spaces provided. Please make sure top bar coded label is left on detector. Identify test location for each detector in space

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314080



REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314080

Client

RADON TESTING CORP. OF AMERICA
REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2313978



REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2313978

Client

RADON TESTING CORP. OF AMERICA

ector (room #, location in room, detector is missing or damaged a

Start Time: 9:30
Stop Time: 14:30
Identifier: _____

Kitchen

Start Time: 9:32
Stop Time: 14:31
Identifier: _____

Furnace

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2313917



REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2313917

Client

RADON TESTING CORP. OF AMERICA

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314656



REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314656

Client

RADON TESTING CORP. OF AMERICA

necessary. Please

Start Time: 9:30
Stop Time: 14:30
Identifier: _____

Kitchen - D

Start Time: _____
Stop Time: _____
Identifier: _____

Furnace - B

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Site Radon Inspection Report

Date : 4/16/2014

Ms. Karron Redfield
Fuss & O'Neill Enviroscience, LLC
146 Hartford Road
Manchester, CT 06040-

Client: Project #: 20140277.A4E
Test Location 12 Cooper Avenue
Milford, CT 06460-

Individual Canister Results

Canister ID# : 2313917
Canister Type : Charcoal Canister 3 inch
Location : Kitchen - D
Radon Level : **0.1 pCi/L**
Error for Measurement is: \pm 0.5 pCi/L

Test Start : 04/09/2014 @ 09:30
Test Stop : 04/11/2014 @ 14:30
Received: 04/14/2014 @ 09:44
Analyzed: 04/14/2014 @ 13:51

Canister ID# : 2313978
Canister Type : Charcoal Canister 3 inch
Location : Furnace
Radon Level : **0.1 pCi/L**
Error for Measurement is: \pm 1.1 pCi/L

Test Start : 04/09/2014 @ 09:32
Test Stop : 04/11/2014 @ 14:31
Received: 04/14/2014 @ 09:44
Analyzed: 04/14/2014 @ 13:51

Canister ID# : 2314080
Canister Type : Charcoal Canister 3 inch
Location : Kitchen
Radon Level : **0.1 pCi/L**
Error for Measurement is: \pm 0.6 pCi/L

Test Start : 04/09/2014 @ 09:30
Test Stop : 04/11/2014 @ 14:30
Received: 04/14/2014 @ 09:44
Analyzed: 04/14/2014 @ 13:51

Canister ID# : 2314656
Canister Type : Charcoal Canister 3 inch
Location : Furnace - B
Radon Level : **0.1 pCi/L**
Error for Measurement is: \pm 0.2 pCi/L

Test Start : 04/09/2014 @ 09:32
Test Stop : 04/11/2014 @ 14:31
Received: 04/14/2014 @ 09:44
Analyzed: 04/14/2014 @ 13:51



Andreas C. George
Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609

Site Radon Inspection Report

Date : 4/16/2014

The reported results indicate that radon levels in the building tested are below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends retesting if your living patterns change and you begin occupying a lower level of the building, such as a basement or if major remodeling is done.

General radon information may be obtained by consulting the EPA booklet: A Citizen's Guide to Radon (www.epa.gov/radon/pubs/ditguide.html). To request a copy or for further information, please contact your state health department. The EPA maintains a radon information website, including copies of its publications, at www.epa.gov/iaq/radon.

For New Jersey clients: Please see the attached guidance document entitled Radon Testing and Mitigation: The Basics for further information.

For New York clients: If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free 1-800-458-1158.

PLEDGE OF ASSURED QUALITY

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of radon in air (EPA 402-R-92-004). The analytical results relate only to the samples tested, in the condition received by the lab, and that calculations were based upon the information supplied by client. RTCA and its personnel do not assume responsibility or liability, collectively and individually, for analysis results when detectors have been improperly handled or placed by the consumer, nor does RTCA and its personnel accept responsibility for any financial or health consequences of subsequent action or lack of action, taken by the customer or its consultants based on RTCA-provided results.



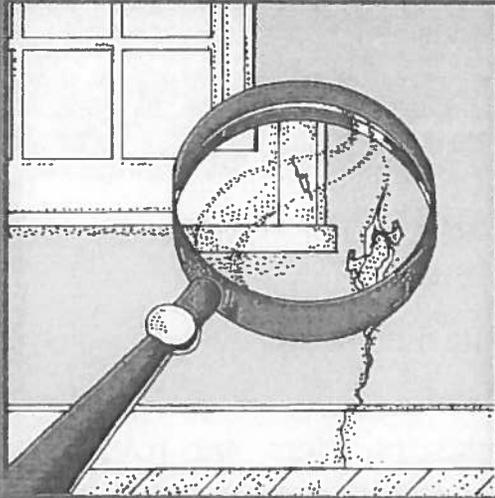
Andreas C. George

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609



Protect Your Family From Lead In Your Home



 **EPA** United States
Environmental
Protection Agency

 United States
Consumer Product
Safety Commission

 United States
Department of Housing
and Urban Development

Simple Steps To Protect Your Family From Lead Hazards

If you think your home has high levels of lead:

- ◆ Get your young children tested for lead, even if they seem healthy.
- ◆ Wash children's hands, bottles, pacifiers, and toys often.
- ◆ Make sure children eat healthy, low-fat foods.
- ◆ Get your home checked for lead hazards.
- ◆ Regularly clean floors, window sills, and other surfaces.
- ◆ Wipe soil off shoes before entering house.
- ◆ Talk to your landlord about fixing surfaces with peeling or chipping paint.
- ◆ Take precautions to avoid exposure to lead dust when remodeling or renovating (call 1-800-424-LEAD for guidelines).
- ◆ Don't use a belt-sander, propane torch, high temperature heat gun, scraper, or sandpaper on painted surfaces that may contain lead.
- ◆ Don't try to remove lead-based paint yourself.

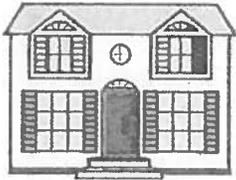


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(minimum 50% postconsumer) process chlorine free.

Are You Planning To Buy, Rent, or Renovate a Home Built Before 1978?

Many houses and apartments built before 1978 have paint that contains high levels of lead (called lead-based paint). Lead from paint, chips, and dust can pose serious health hazards if not taken care of properly.



OWNERS, BUYERS, and RENTERS are encouraged to check for lead (see page 6) before renting, buying or renovating pre-1978 housing.

Federal law requires that individuals receive certain information before renting, buying, or renovating pre-1978 housing:



LANDLORDS have to disclose known information on lead-based paint and lead-based paint hazards before leases take effect. Leases must include a disclosure about lead-based paint.



SELLERS have to disclose known information on lead-based paint and lead-based paint hazards before selling a house. Sales contracts must include a disclosure about lead-based paint. Buyers have up to 10 days to check for lead.



RENOVATORS disturbing more than 2 square feet of painted surfaces have to give you this pamphlet before starting work.

IMPORTANT!

Lead From Paint, Dust, and Soil Can Be Dangerous If Not Managed Properly

- FACT:** Lead exposure can harm young children and babies even before they are born.
- FACT:** Even children who seem healthy can have high levels of lead in their bodies.
- FACT:** People can get lead in their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.
- FACT:** People have many options for reducing lead hazards. In most cases, lead-based paint that is in good condition is not a hazard.
- FACT:** Removing lead-based paint improperly can increase the danger to your family.

If you think your home might have lead hazards, read this pamphlet to learn some simple steps to protect your family.

Lead Gets in the Body in Many Ways

Childhood lead poisoning remains a major environmental health problem in the U.S.

Even children who appear healthy can have dangerous levels of lead in their bodies.

People can get lead in their body if they:

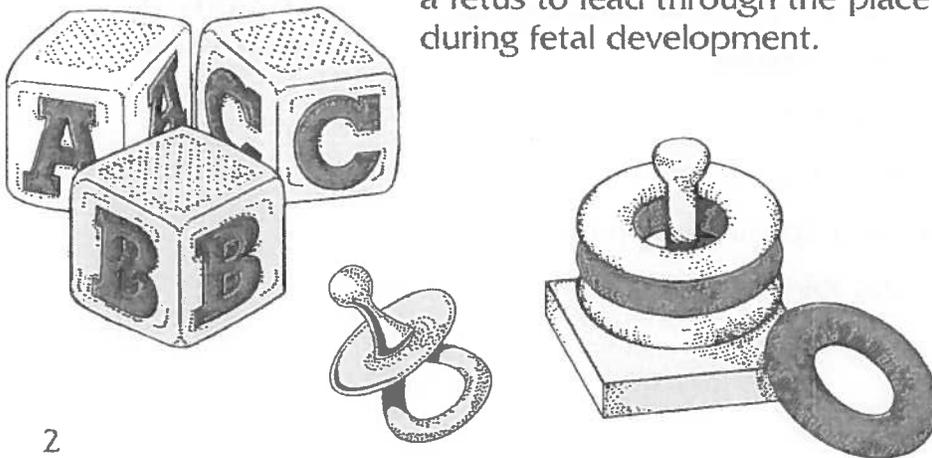
- ◆ Breathe in lead dust (especially during renovations that disturb painted surfaces).
- ◆ Put their hands or other objects covered with lead dust in their mouths.
- ◆ Eat paint chips or soil that contains lead.

Lead is even more dangerous to children under the age of 6:

- ◆ At this age children's brains and nervous systems are more sensitive to the damaging effects of lead.
- ◆ Children's growing bodies absorb more lead.
- ◆ Babies and young children often put their hands and other objects in their mouths. These objects can have lead dust on them.

Lead is also dangerous to women of childbearing age:

- ◆ Women with a high lead level in their system prior to pregnancy would expose a fetus to lead through the placenta during fetal development.



Lead's Effects

It is important to know that even exposure to low levels of lead can severely harm children.

In children, lead can cause:

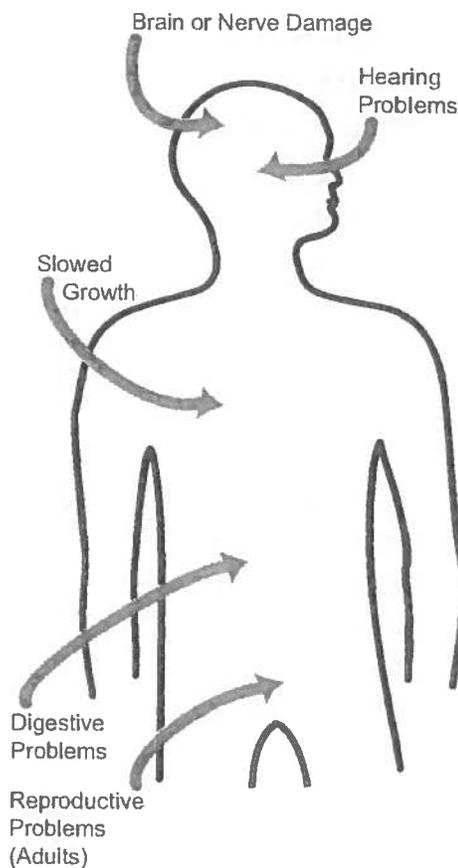
- ◆ Nervous system and kidney damage.
- ◆ Learning disabilities, attention deficit disorder, and decreased intelligence.
- ◆ Speech, language, and behavior problems.
- ◆ Poor muscle coordination.
- ◆ Decreased muscle and bone growth.
- ◆ Hearing damage.

While low-lead exposure is most common, exposure to high levels of lead can have devastating effects on children, including seizures, unconsciousness, and, in some cases, death.

Although children are especially susceptible to lead exposure, lead can be dangerous for adults too.

In adults, lead can cause:

- ◆ Increased chance of illness during pregnancy.
- ◆ Harm to a fetus, including brain damage or death.
- ◆ Fertility problems (in men and women).
- ◆ High blood pressure.
- ◆ Digestive problems.
- ◆ Nerve disorders.
- ◆ Memory and concentration problems.
- ◆ Muscle and joint pain.



**Lead affects
the body in
many ways.**

Where Lead-Based Paint Is Found

In general, the older your home, the more likely it has lead-based paint.

Many homes built before 1978 have lead-based paint. The federal government banned lead-based paint from housing in 1978. Some states stopped its use even earlier. Lead can be found:

- ◆ In homes in the city, country, or suburbs.
- ◆ In apartments, single-family homes, and both private and public housing.
- ◆ Inside and outside of the house.
- ◆ In soil around a home. (Soil can pick up lead from exterior paint or other sources such as past use of leaded gas in cars.)

Checking Your Family for Lead

Get your children and home tested if you think your home has high levels of lead.

To reduce your child's exposure to lead, get your child checked, have your home tested (especially if your home has paint in poor condition and was built before 1978), and fix any hazards you may have. Children's blood lead levels tend to increase rapidly from 6 to 12 months of age, and tend to peak at 18 to 24 months of age.

Consult your doctor for advice on testing your children. A simple blood test can detect high levels of lead. Blood tests are usually recommended for:

- ◆ Children at ages 1 and 2.
- ◆ Children or other family members who have been exposed to high levels of lead.
- ◆ Children who should be tested under your state or local health screening plan.

Your doctor can explain what the test results mean and if more testing will be needed.

Identifying Lead Hazards

Lead-based paint is usually not a hazard if it is in good condition, and it is not on an impact or friction surface, like a window. It is defined by the federal government as paint with lead levels greater than or equal to 1.0 milligram per square centimeter, or more than 0.5% by weight.

Deteriorating lead-based paint (peeling, chipping, chalking, cracking or damaged) is a hazard and needs immediate attention. It may also be a hazard when found on surfaces that children can chew or that get a lot of wear-and-tear, such as:

- ◆ Windows and window sills.
- ◆ Doors and door frames.
- ◆ Stairs, railings, banisters, and porches.

Lead dust can form when lead-based paint is scraped, sanded, or heated. Dust also forms when painted surfaces bump or rub together. Lead chips and dust can get on surfaces and objects that people touch. Settled lead dust can re-enter the air when people vacuum, sweep, or walk through it. The following two federal standards have been set for lead hazards in dust:

- ◆ 40 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) and higher for floors, including carpeted floors.
- ◆ 250 $\mu\text{g}/\text{ft}^2$ and higher for interior window sills.

Lead in soil can be a hazard when children play in bare soil or when people bring soil into the house on their shoes. The following two federal standards have been set for lead hazards in residential soil:

- ◆ 400 parts per million (ppm) and higher in play areas of bare soil.
- ◆ 1,200 ppm (average) and higher in bare soil in the remainder of the yard.

The only way to find out if paint, dust and soil lead hazards exist is to test for them. The next page describes the most common methods used.

Lead from paint chips, which you can see, and lead dust, which you can't always see, can both be serious hazards.

Checking Your Home for Lead

Just knowing that a home has lead-based paint may not tell you if there is a hazard.



You can get your home tested for lead in several different ways:

- ◆ A paint **inspection** tells you whether your home has lead-based paint and where it is located. It won't tell you whether or not your home currently has lead hazards.
- ◆ A **risk assessment** tells you if your home currently has any lead hazards from lead in paint, dust, or soil. It also tells you what actions to take to address any hazards.
- ◆ A combination risk assessment and inspection tells you if your home has any lead hazards and if your home has any lead-based paint, and where the lead-based paint is located.

Hire a trained and certified testing professional who will use a range of reliable methods when testing your home.

- ◆ Visual inspection of paint condition and location.
- ◆ A portable x-ray fluorescence (XRF) machine.
- ◆ Lab tests of paint, dust, and soil samples.

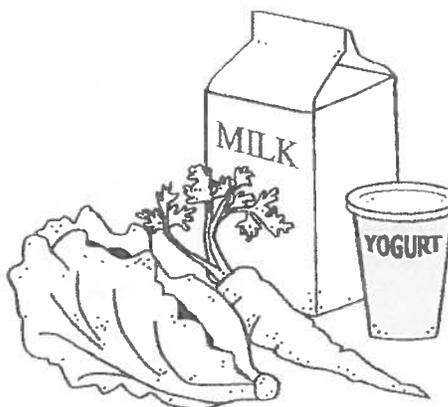
There are state and federal programs in place to ensure that testing is done safely, reliably, and effectively. Contact your state or local agency (see bottom of page 11) for more information, or call **1-800-424-LEAD (5323)** for a list of contacts in your area.

Home test kits for lead are available, but may not always be accurate. Consumers should not rely on these kits before doing renovations or to assure safety.

What You Can Do Now To Protect Your Family

If you suspect that your house has lead hazards, you can take some immediate steps to reduce your family's risk:

- ◆ If you rent, notify your landlord of peeling or chipping paint.
- ◆ Clean up paint chips immediately.
- ◆ Clean floors, window frames, window sills, and other surfaces weekly. Use a mop or sponge with warm water and a general all-purpose cleaner or a cleaner made specifically for lead. REMEMBER: NEVER MIX AMMONIA AND BLEACH PRODUCTS TOGETHER SINCE THEY CAN FORM A DANGEROUS GAS.
- ◆ Thoroughly rinse sponges and mop heads after cleaning dirty or dusty areas.
- ◆ Wash children's hands often, especially before they eat and before nap time and bed time.
- ◆ Keep play areas clean. Wash bottles, pacifiers, toys, and stuffed animals regularly.
- ◆ Keep children from chewing window sills or other painted surfaces.
- ◆ Clean or remove shoes before entering your home to avoid tracking in lead from soil.
- ◆ Make sure children eat nutritious, low-fat meals high in iron and calcium, such as spinach and dairy products. Children with good diets absorb less lead.



Reducing Lead Hazards In The Home

Removing lead improperly can increase the hazard to your family by spreading even more lead dust around the house.

Always use a professional who is trained to remove lead hazards safely.



In addition to day-to-day cleaning and good nutrition:

- ◆ You can **temporarily** reduce lead hazards by taking actions such as repairing damaged painted surfaces and planting grass to cover soil with high lead levels. These actions (called “interim controls”) are not permanent solutions and will need ongoing attention.
- ◆ To **permanently** remove lead hazards, you should hire a certified lead “abatement” contractor. Abatement (or permanent hazard elimination) methods include removing, sealing, or enclosing lead-based paint with special materials. Just painting over the hazard with regular paint is not permanent removal.

Always hire a person with special training for correcting lead problems—someone who knows how to do this work safely and has the proper equipment to clean up thoroughly. Certified contractors will employ qualified workers and follow strict safety rules as set by their state or by the federal government.

Once the work is completed, dust cleanup activities must be repeated until testing indicates that lead dust levels are below the following:

- ◆ 40 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) for floors, including carpeted floors;
- ◆ 250 $\mu\text{g}/\text{ft}^2$ for interior windows sills; and
- ◆ 400 $\mu\text{g}/\text{ft}^2$ for window troughs.

Call your state or local agency (see bottom of page 11) for help in locating certified professionals in your area and to see if financial assistance is available.

Remodeling or Renovating a Home With Lead-Based Paint

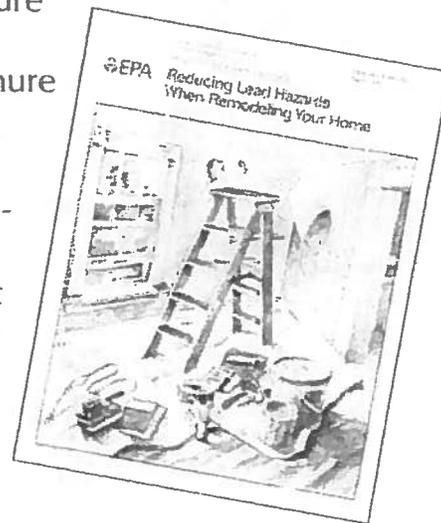
Take precautions before your contractor or you begin remodeling or renovating anything that disturbs painted surfaces (such as scraping off paint or tearing out walls):

- ◆ **Have the area tested for lead-based paint.**
- ◆ **Do not use a belt-sander, propane torch, high temperature heat gun, dry scraper, or dry sandpaper** to remove lead-based paint. These actions create large amounts of lead dust and fumes. Lead dust can remain in your home long after the work is done.
- ◆ **Temporarily move your family** (especially children and pregnant women) out of the apartment or house until the work is done and the area is properly cleaned. If you can't move your family, at least completely seal off the work area.
- ◆ **Follow other safety measures to reduce lead hazards.** You can find out about other safety measures by calling 1-800-424-LEAD. Ask for the brochure "Reducing Lead Hazards When Remodeling Your Home." This brochure explains what to do before, during, and after renovations.

If you have already completed renovations or remodeling that could have released lead-based paint or dust, get your young children tested and follow the steps outlined on page 7 of this brochure.



If not conducted properly, certain types of renovations can release lead from paint and dust into the air.



Other Sources of Lead



While paint, dust, and soil are the most common sources of lead, other lead sources also exist.



- ◆ **Drinking water.** Your home might have plumbing with lead or lead solder. Call your local health department or water supplier to find out about testing your water. You cannot see, smell, or taste lead, and boiling your water will not get rid of lead. If you think your plumbing might have lead in it:
 - Use only cold water for drinking and cooking.
 - Run water for 15 to 30 seconds before drinking it, especially if you have not used your water for a few hours.
- ◆ **The job.** If you work with lead, you could bring it home on your hands or clothes. Shower and change clothes before coming home. Launder your work clothes separately from the rest of your family's clothes.
- ◆ Old painted **toys** and **furniture**.
- ◆ Food and liquids stored in **lead crystal** or **lead-glazed pottery or porcelain**.
- ◆ **Lead smelters** or other industries that release lead into the air.
- ◆ **Hobbies** that use lead, such as making pottery or stained glass, or refinishing furniture.
- ◆ **Folk remedies** that contain lead, such as "greta" and "azarcon" used to treat an upset stomach.

For More Information

The National Lead Information Center

Call **1-800-424-LEAD (424-5323)** to learn how to protect children from lead poisoning and for other information on lead hazards. To access lead information via the web, visit **www.epa.gov/lead** and **www.hud.gov/offices/lead/**.

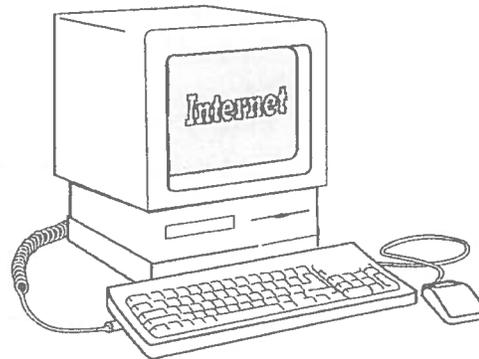


EPA's Safe Drinking Water Hotline

Call **1-800-426-4791** for information about lead in drinking water.

Consumer Product Safety Commission (CPSC) Hotline

To request information on lead in consumer products, or to report an unsafe consumer product or a product-related injury call **1-800-638-2772**, or visit CPSC's Web site at: **www.cpsc.gov**.



Health and Environmental Agencies

Some cities, states, and tribes have their own rules for lead-based paint activities. Check with your local agency to see which laws apply to you. Most agencies can also provide information on finding a lead abatement firm in your area, and on possible sources of financial aid for reducing lead hazards. Receive up-to-date address and phone information for your local contacts on the Internet at **www.epa.gov/lead** or contact the National Lead Information Center at **1-800-424-LEAD**.

For the hearing impaired, call the Federal Information Relay Service at **1-800-877-8339** to access any of the phone numbers in this brochure.

EPA Regional Offices

Your Regional EPA Office can provide further information regarding regulations and lead protection programs.

EPA Regional Offices

Region 1 (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)

Regional Lead Contact
U.S. EPA Region 1
Suite 1100 (CPT)
One Congress Street
Boston, MA 02114-2023
1 (888) 372-7341

Region 2 (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 209, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3 (Delaware; Maryland, Pennsylvania, Virginia, Washington DC, West Virginia)

Regional Lead Contact
U.S. EPA Region 3 (3WC33)
1650 Arch Street
Philadelphia, PA 19103
(215) 814-5000

Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)

Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
(404) 562-8998

Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)

Regional Lead Contact
U.S. EPA Region 5 (DT-8J)
77 West Jackson Boulevard
Chicago, IL 60604-3666
(312) 886-6003

Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue, 12th Floor
Dallas, TX 75202-2733
(214) 665-7577

Region 7 (Iowa, Kansas, Missouri, Nebraska)

Regional Lead Contact
U.S. EPA Region 7
(ARTD-RALI)
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)

Regional Lead Contact
U.S. EPA Region 8
999 18th Street, Suite 500
Denver, CO 80202-2466
(303) 312-6021

Region 9 (Arizona, California, Hawaii, Nevada)

Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 947-4164

Region 10 (Alaska, Idaho, Oregon, Washington)

Regional Lead Contact
U.S. EPA Region 10
Toxics Section WCM-128
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1985

CPSC Regional Offices

Your Regional CPSC Office can provide further information regarding regulations and consumer product safety.

Eastern Regional Center

Consumer Product Safety Commission
201 Varick Street, Room 903
New York, NY 10014
(212) 620-4120

Western Regional Center

Consumer Product Safety Commission
1301 Clay Street, Suite 610-N
Oakland, CA 94612
(510) 637-4050

Central Regional Center

Consumer Product Safety Commission
230 South Dearborn Street, Room 2944
Chicago, IL 60604
(312) 353-8260

HUD Lead Office

Please contact HUD's Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control and research grant programs.

U.S. Department of Housing and Urban Development

Office of Healthy Homes and Lead Hazard Control
451 Seventh Street, SW, P-3206
Washington, DC 20410
(202) 755-1785

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U.S. EPA Washington DC 20460
U.S. CPSC Washington DC 20207
U.S. HUD Washington DC 20410

EPA747-K-99-001
June 2003

Disclosure of Information on Lead-Based Paint and/or Lead-Based Paint Hazards

Lead Warning Statement

Housing built before 1978 may contain lead-based paint. Lead from paint, paint chips, and dust can pose health hazards if not managed properly. Lead exposure is especially harmful to young children and pregnant women. Before renting pre-1978 housing, lessors must disclose the presence of known lead-based paint and/or lead-based paint hazards in the dwelling. Lessees must also receive a federally approved pamphlet on lead poisoning prevention.

Lessor's Disclosure

(a) Presence of lead-based paint and/or lead-based paint hazards (check (i) or (ii) below):

(i) _____ Known lead-based paint and/or lead-based paint hazards are present in the housing (explain).

(ii) _____ Lessor has no knowledge of lead-based paint and/or lead-based paint hazards in the housing.

(b) Records and reports available to the lessor (check (i) or (ii) below):

(i) _____ Lessor has provided the lessee with all available records and reports pertaining to lead-based paint and/or lead-based paint hazards in the housing (list documents below).

(ii) _____ Lessor has no reports or records pertaining to lead-based paint and/or lead-based paint hazards in the housing.

Lessee's Acknowledgment (initial)

(c) _____ Lessee has received copies of all information listed above.

(d) _____ Lessee has received the pamphlet *Protect Your Family from Lead in Your Home*.

Agent's Acknowledgment (initial)

(e) _____ Agent has informed the lessor of the lessor's obligations under 42 U.S.C. 4852d and is aware of his/her responsibility to ensure compliance.

Certification of Accuracy

The following parties have reviewed the information above and certify, to the best of their knowledge, that the information they have provided is true and accurate.

_____	_____	_____	_____
Lessor	Date	Lessor	Date
_____	_____	_____	_____
Lessee	Date	Lessee	Date
_____	_____	_____	_____
Agent	Date	Agent	Date

CHILDPROOF YOUR HOME IMPROVEMENTS.

HAVING WORK DONE ON YOUR PLACE? USE A LEAD-SAFE CERTIFIED CONTRACTOR.

The Danger

Lead paint hazards have not gone away. If your home or apartment was built before 1978, unqualified workers could spread lead paint dust. Even doing a small job.

- **Kids:** Lead exposure can cause lower intelligence, behavior problems and learning disabilities.
- **Pregnant women:** Lead paint dust can be harmful to your developing fetus.
- **All adults:** Exposure to lead paint dust can cause nervous system effects, high blood pressure, fertility problems, and kidney effects.

The Renovation, Repair and Painting Rule

The EPA is requiring that contractors be Lead-Safe Certified.

- Contractors include: renovators, electricians, HVAC specialists, plumbers, painters and maintenance staff who disrupt more than six square feet of lead paint.
- This rule covers schools, day care centers, or any buildings where children gather.

CAUTION CAUTION CAUTION CAUTION CAUTION CAUTION

The Solution

Protect your family and loved ones.

- Make sure to hire a contractor who is Lead-Safe Certified. It may cost just a little more but you'll get the job done right.

WARNING
LEAD WORK AREA
POISON
NO SMOKING
OR EATING

To find a contractor who is Lead-Safe Certified near you,
visit epa.gov/getleadsafe or call 800-424-LEAD.

To report violations, visit epa.gov/tips





City of Milford, Connecticut

· Founded 1639 ·

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

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

June 9, 2014

Mr. Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut 06798

Re: Inland Wetland Environmental Review Request for CDBG-DR funding

Dear Mr. Ball:

The Milford Inland Wetlands and Watercourses Agency has received your request to review the following properties for permitting requirements:

- 10 Cool Ridge Rd - raise house to proper flood elevation
- 12 Cooper Ave - raise house to proper flood elevation
- 14 Cooper Ave - raise house to proper flood elevation
- 870 East Broadway / 2 Scott Street - raise house to proper flood elevation
- 13 James St - raise house to proper flood elevation
- 104 Melba St - raise house to proper flood elevation
- 70 Shell Ave - raise house to proper flood elevation

A review of the sites and the MIWA maps reveals no work is proposed within '100' of an inland wetland. With proper construction practices and sedimentation and erosion controls this proposed work does not appear to have the potential to adversely impact wetlands or watercourses. Therefore, under section 2 of the MIWA Regulations a permit is not required from the MIWA at this time.

This letter applies only to the specific plans noted above. Any revision of these plans will require further review by this Agency. No fill material may be placed in a wetland area without additional permits. Should you have any questions concerning this matter, please contact the Inland Wetlands Agency Office at 203-783-3256.

Sincerely,

Mary Rose Palumbo
Inland Wetlands Compliance Officer

cc: DPLU
Engineering
Planning & Zoning

