APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 1026

710 Rowland Road
Fairfield, Connecticut

May 15, 2015

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: Silverman Residence / #1026
710 Rowland Road Fairfield, Connecicut

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]	☒	☐	☐	☐	☐	☐	No Effect - Consulted with State Historic Preservation Office (SHPO); Building built in 1947. No Effect determination dated April 23, 2014 attached.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	☐	☒	☒	☐	☐	☐	Located in Flood Zone AE based on FEMA – Map Number 09001C0419G Revised July 8, 2013. See attached FIRMLET.
3. Wetland Protection [58.5 (b)]	☐	☒	☒	☐	☐	☐	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. May require review from local Inland/Wetland regulatory body. See attached National Wetlands Map dated 9/23/14
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	☐	☒	☒	☐	☐	☐	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	☒	☐	☐	☐	☐	☐	Water Quality – N/A Project does not involving on-site water and sewer facilities nor is it in a sole source acquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	☒	☐	☐	☐	☐	☐	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.]	☒	☐	☐	☐	☐	☐	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.]	☒	☐	☐	☐	☐	☐	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)]	☒	☐	☐	☐	☐	☐	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)]	☒	☐	☐	☐	☐	☐	N/A for projects that do not add density
10 B. Noise [58.5(i)]	☒	☐	☐	☐	☐	☐	Not applicable to project – restoration of structure substanitially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	☒	☐	☐	☐	☐	☐	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.
10 D. Toxic Sites [58.5 (i)(2)(i)]	☒	☐	☐	☐	☐	☐	The site has no known toxic history based on the attached Toxix Site Certification. The site: 1) is not listed on EPA Superfund National Prioritiyes or CERCLA list. 2) is not located within 3,000ft of a toxic or solid waste landfill. 3) is not known to have an undergroud storage tank (which is not an undergroud storage fuel tank). 4) Is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	☒	☐	☐	☐	☐	☐	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)]	☐	☒	☒	☐	☐	☐	Located in 100 year Flood Plain – Map Number 09001C04519G Revised July 8, 2013. See attached FIRMLET Flood insurance required.
12 B. Coastal Barriers [58.6(c)]	☒	☐	☐	☐	☐	☐	Property is not located in a Coastal Barrier Resource Zone. See attach map.
12 C. Airport Clear Zone Notification [58.6(d)]	☒	☐	☐	☐	☐	☐	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
13. A Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	☒	☐	☐	☐	☐	☐	Resource Conservation and Recovery Act and Solid Waste Disposal Act; Residential Exemption

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13 B. Fish and Wildlife [U.S.C. 661-666c]	☒	☐	☐	☐	☐	☐	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]	☐	☒	☒	☐	☐	☐	Lead paint found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated June 2014. Give tenant Notice about Lead. Compliance will include removal of lead-based paint hazards, notifications, and clearance examinations.
13 D. Asbestos	☐	☒	☒	☒	☐	☐	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated June 2014. Compliance will include measures to minimize risk of exposure and when necessary abate any hazardous materials.
13 E. Radon [50.3 (i) 1]	☒	☐	☐	☐	☐	☐	Radon concentration less than 4 picocuries per liter of air. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated June 2014. No action required.
13 F. Mold	☒	☐	☐	☐	☐	☐	No Mold Found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated June 2014.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☐	☐	☒	☐	☐	☐	Property inside Flood Zone AE on FEMA map 09001C04519G 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]	☒	☐	☐	☐	☐	☐	Not applicable – this project is not waterward of the Coastal Juridiction Line.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	☒	☐	☐	☐	☐	☐	Not located in Title wetlands – see attached Zoning Location Survey.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	☐	☒	☒	☐	☐	☐	Located in wetlands - see attached Zoning Location Survey. May require review from local Inland/Wetland regulatory body.
14 E. Various Municipal Zoning Approvals	☐	☐	☒	☐	☐	☐	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/authories requires consultation or itigation. 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 reasult 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

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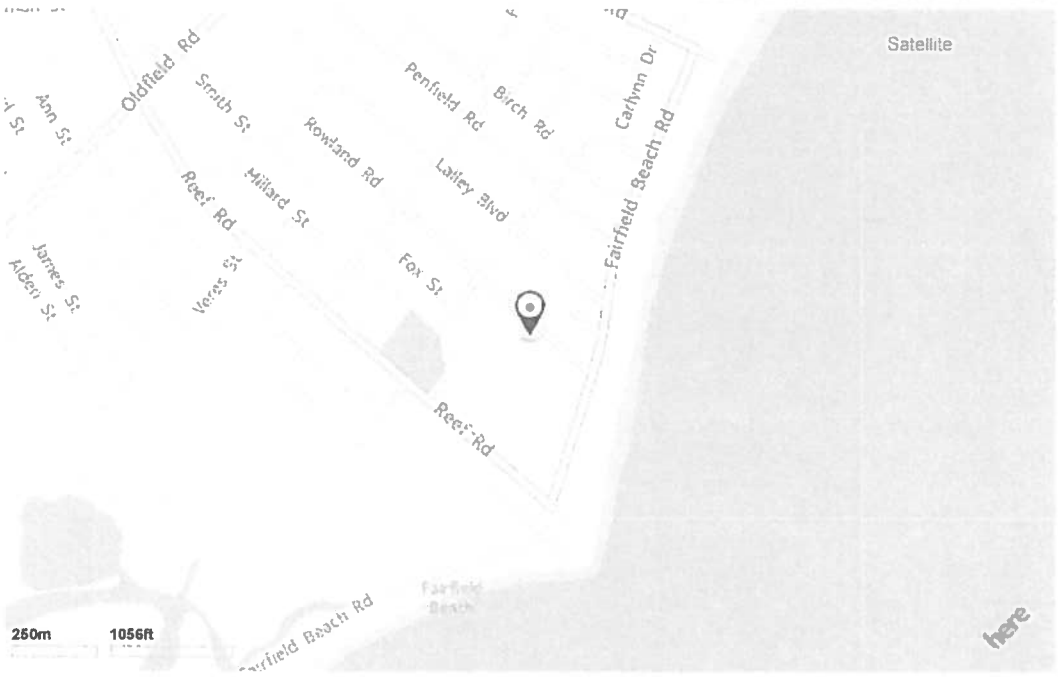
Ad

YAHOO! MAPS

710 Rowland Rd, Fairfield, CT 06824-6746

Enter notes here

255



When using any driving directions or map, it is a good idea to double check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning

710 ROWLAND ROAD

Location	710 ROWLAND ROAD	**Assessment**	$472,570
Mblu	183/ 2/ / /	**Appraisal**	$675,100
Acct#	14479	**PID**	16576
Owner	SILVERMAN MELVIN J & BEVERLY J (SV)	**Building Count**	1

Current Value

Appraisal	
Valuation Year	**Total**
2013	$675,100
Assessment	
Valuation Year	**Total**
2013	$472,570

Owner of Record

Owner	SILVERMAN MELVIN J & BEVERLY J (SV)	**Sale Price**	$442,500
Co-Owner		**Book & Page**	2752/ 263
Address	710 ROWLAND ROAD FAIRFIELD, CT 06824-6719	**Sale Date**	01/24/2003

Ownership History

Ownership History			
Owner	**Sale Price**	**Book & Page**	**Sale Date**
POWELL RAYMOND D	$200,000	2119/ 146	05/23/2000
POWELL MARGARET	$0	380/ 363	

Building Information

Building 1 : Section 1

Year Built: 1947
Living Area: 1832

Building Attributes	
Field	**Description**
Style	Cape
Stories:	1 1/2 Stories
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip

Building Photo

Roof Cover	Asphalt
Interior Wall 1	Plastered
Interior Wall 2	Drywall
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Gas
Heat Type:	Forced Air-Duc
AC Type:	Central
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	7 Rooms
Bath Style:	Average
Kitchen Style:	Average

(http://images.vgsi.com/photos/FairfieldCTPhotos//\02\03\15/52.jpg)

Building Layout

Building Sub-Areas			
Code	Description	Gross Area	Living Area
BAS	First Floor	1342	1342
FHS	Half Story, Finished	816	490
FEP	Porch, Enclosed, Finished	32	0
FGR	Garage	286	0
PTO	Patio	104	0
WDK	Deck, Wood	242	0
		2822	1832

Extra Features

Extra Features			
Code	Description	Size	Bldg #
FPL1	FIREPLACE	1 UNITS	1

Land

Land Use

Use Code 1010
Description Single Fam MDL-01

Land Line Valuation

Size (Acres) 0.17
Depth 0

Zone	A
Alt Land Appr	No
Category	

Outbuildings

Outbuildings				Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**
SHD1	SHED FRAME			104 S.F.

Valuation History

Appraisal	
Valuation Year	**Total**
2012	$675,100
2011	$675,100
2010	$675,100

Assessment	
Valuation Year	**Total**
2012	$472,570
2011	$472,570
2010	$472,570

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1026CF

Department of Economic and Community Development

Connecticut
still revolutionary

April 23, 2014

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

received
4-30-14

RE: Applicant-710 Rowland Avenue, Fairfield, CT

Dear Ms. Delaire:

The State Historic Preservation Office (SHPO) has reviewed the above-named project. In the opinion of the SHPO, the proposed undertaking will have no effect upon the state's cultural resources.

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

We recommend that the responsible federal agency provide concerned citizens with the opportunity to review and comment upon the proposed undertaking in accordance with the National Historic Preservation Act of 1966.

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

Sincerely:

Daniel T. Forrest
State Historic Preservation Officer

STEPHEN BALL
294 White Deer Rocks Road
Woodbury, Connecticut 06798

February 27, 2014

Mr. Daniel Forrest
Director of Arts & Historic Preservation
Deputy State Historic Preservation Officer
One Constitution Plaza, 2nd floor
Hartford, CT 06103

Re: Environmental Review –710 Rowland Road, Fairfield, CT

Dear Mr. Forrest:

An Environmental Review for renovations due to Super Storm Sandy at 710 Rowland Road, Fairfield, 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.

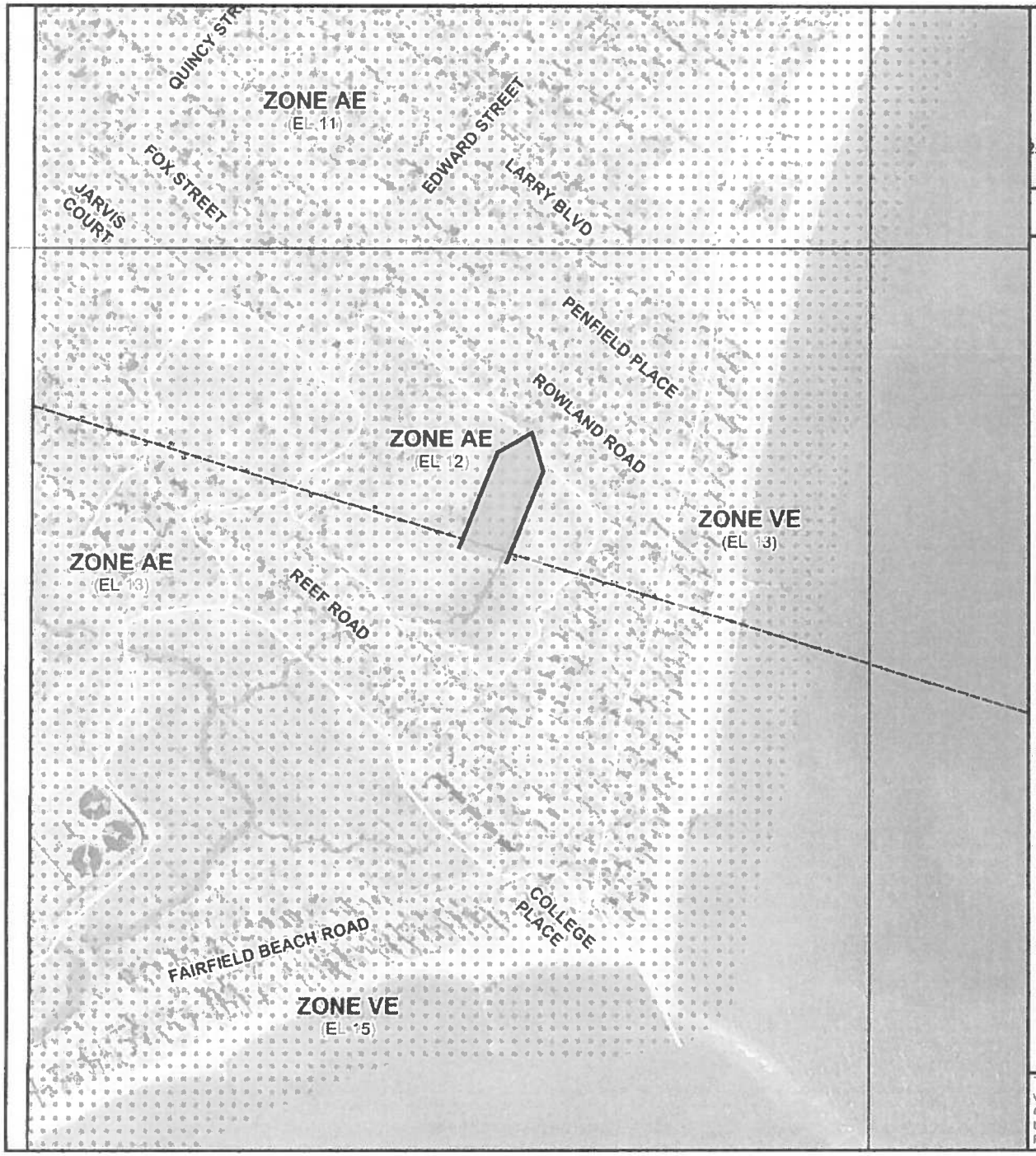
We do not feel the property has any historic significance and are requesting a finding of "No Effect".

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

Thanks,

Stephen Ball

Enc.



MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0438G

FIRM

FLOOD INSURANCE RATE MAP

FAIRFIELD COUNTY, CONNECTICUT (ALL JURISDICTIONS)

PANEL 438 OF 626

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BRIDGEPORT, CITY OF	090202	0438	G
FAIRFIELD, TOWN OF	090207	0438	G

NOTE:
THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND/OR SUBSEQUENT ENABLING LEGISLATION.

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

MAP NUMBER
09001C0438G

MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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

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

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

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

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE
Policy Number:
Company NAIC Number:

A1. Building Owner's Name MELVIN J. SILVERMAN & BERERLY J. SILVERMAN

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
710 ROWLAND ROAD
City FAIRFIELD State CT ZIP Code 06824

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
ASSESSOR'S TAX MAP # 183 TAX LOT # 2

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 41.132862 Long. -73.244372 Horizontal Datum: ☐ NAD 1927 ☒ 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 8

A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) 1342 sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 0
c) Total net area of flood openings in A8.b 0 sq in
d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:
a) Square footage of attached garage 286 sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0
c) Total net area of flood openings in A9.b 0 sq in
d) Engineered flood openings? ☐ Yes ☐ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
FAIRFIELD 090007	FAIRFIELD	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)
09001C0438	G	JULY 8, 2013	JULY 8, 2013	AE	11 & 12

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: _____ ☐ CBRS ☐ OPA

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ 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: TOWN BENCH MARK Vertical Datum: NAVD 1988
Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	3.5	☒ feet	☐ meters
b) Top of the next higher floor	7.1	☒ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	_____	☐ feet	☐ meters
d) Attached garage (top of slab)	4.7	☒ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	5.4	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	4.5	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	5.2	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	4.8	☒ feet	☐ 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.*

☐ Check here if comments are provided on back of form.
☐ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

PLACE SEAL HERE

Certifier's Name Walter H. Skidd License Number LS Reg # 14663
Title Land Surveyor Company Name Walter H. Skidd - Land Surveyor LLC
Address 1992 Stratfield Road City Fairfield State CT ZIP Code 06825
Signature [signature] Date OCT. 17, 2013 Telephone 203.373.0401

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. 710 ROWLAND ROAD	Policy Number:
City FAIRFIELD State CT ZIP Code 06824	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 BOTTOM OF ELECTRIC METER ELEV. = 8.8; BOTTOM OF ELECTRIC CIRCUIT PANEL ELEV. = 9.1; BOTTOM OF WATER HEATER ELEV. = 8.9; A/C UNIT ON LEFT SIDE OF RESIDENCE ELEV. = 10.9; AC/ UNIT BEHIND GARAGE ELEV. = 10.5; BOTTOM OF EXTERIOR GAS METER ON VENT ELEV. = 7.8; AIR HANDLER ELEV. = 6.9; BOTTOM OF AIR DUCT ELEV. = 5.4

Signature Date OCT. 17, 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's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ 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.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 710 ROWLAND ROAD	FOR INSURANCE COMPANY USE Policy Number:
City FAIRFIELD State CT ZIP Code 06824	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 A8. If submitting more photographs than will fit on this page, use the Continuation Page.

FRONT VEIW OF RESIDENCE PHOTO TAKEN ON OCT. 17, 2013

RIGHT SIDE VIEW OF RESIDENCE AT GARAGE PHOTO TAKEN ON OCT. 17, 2013

Building Photographs

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 710 ROWLAND ROAD	FOR INSURANCE COMPANY USE Policy Number:
City FAIRFIELD State CT ZIP Code 06824	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 & REAR VIEW OF GARAGE PHOTO TAKEN ON OCT. 17, 2013

REAR VIEW OF RESIDENCEFROM REAR YARD PHOTO TAKEN ON OCT. 17, 2013

LEFT SIDE VIEW OF RESIDENCE PHOTO TAKEN ON OCT. 17, 2013

U.S. Fish and Wildlife Service

National Wetlands Inventory

Silerman Residence

Sep 23, 2014

Wetlands

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

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

User Remarks:

710 Rowland Road.Fairfield, CT

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-0314 May 29, 2014
Project Name: Residence 710 Rowland Road Fairfield, CT

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: Residence 710 Rowland Road Fairfield, 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-0314
Project Type: Federal Grant / Loan Related
Project Description: Raise home at 710 Rowland Road to proper flood elevation. Install new floor assembly in garage space.

United States Department of Interior
Fish and Wildlife Service

Project name: Residence 710 Rowland Road Fairfield, CT

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-73.2450963 41.1336265, -73.2445599 41.1333033, -73.2449676 41.1328346, -73.2454826 41.1332063, -73.2450963 41.1336265)))

Project Counties: Fairfield, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Residence 710 Rowland Road Fairfield, 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: Residence 710 Rowland Road Fairfield, CT

Critical habitats that lie within your project area

There are no critical habitats within your project area.

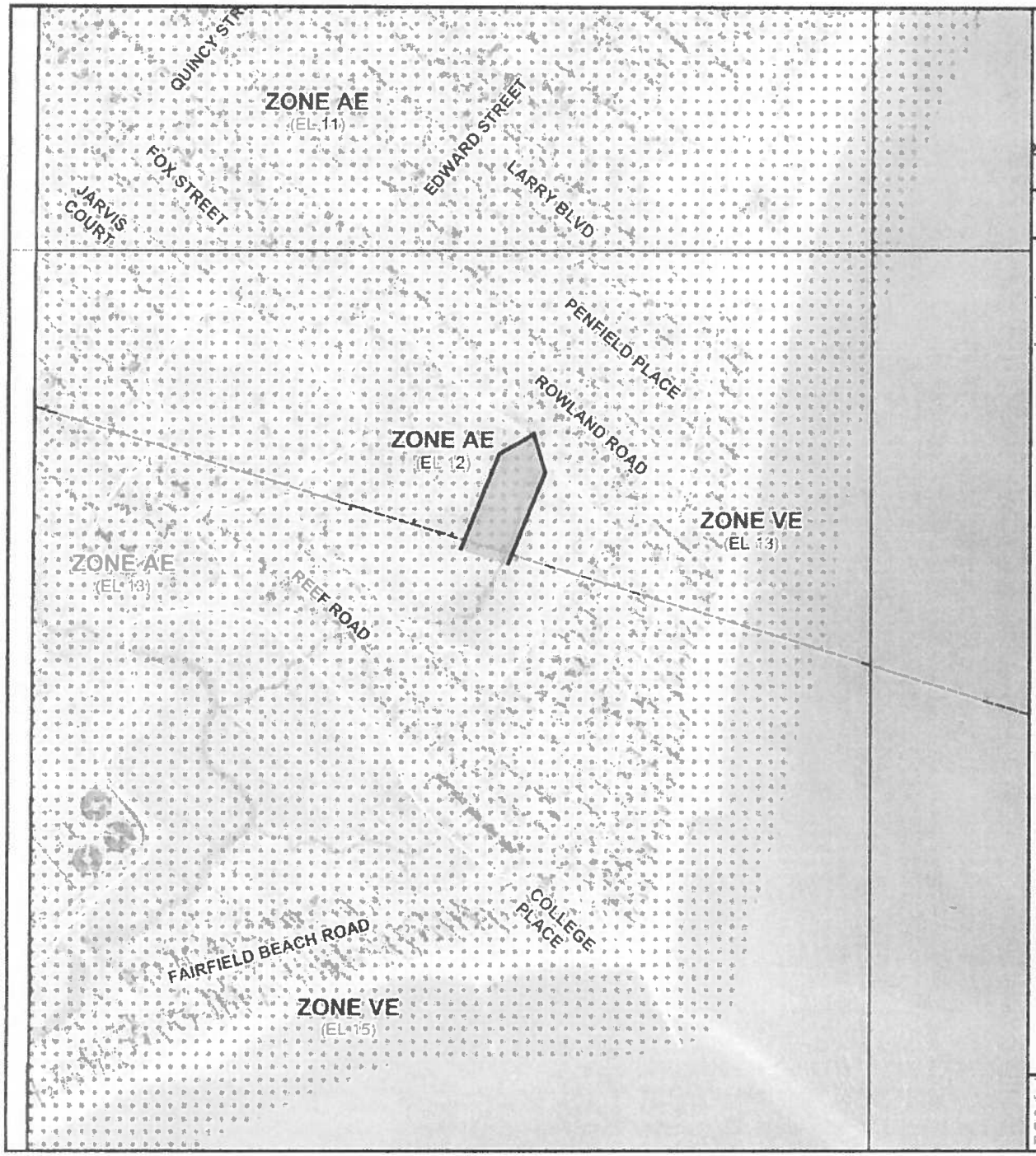
10 D. Toxic Site Certification

I certify that the property identified as 710 Rowland Road Fairfield, Connecticut was checked for inclusion on the attached lists/databases:

DEEP State of Connecticut Superfund Priority List
EPA – Proposed National Priority List dated May 12, 2014
EPA – Final National Priority List dated May 12, 2014
EPA – Deleted National Priority List dated May 12, 2014
EPA – Partial Deleted National Priority List dated May 12, 2014
EPA – Construction Completed at NPL Site
DEEP List of Contaminated or Potentially Contaminated Site dated February 10, 2014.

As on August 7, 2014, 710 Rowland Road Fairfield, Connecticut was not listed on any of the above.

Stephen Ball
ERR Reviewer



MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0438G

FIRM

FLOOD INSURANCE RATE MAP

FAIRFIELD COUNTY, CONNECTICUT (ALL JURISDICTIONS)

PANEL 438 OF 626

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BRIDGEPORT, CITY OF	090003	0438	G
FAIRFIELD, TOWN OF	090007	0438	G

NOTE:
THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND/OR SUBSEQUENT ENABLING LEGISLATION.

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

MAP NUMBER
09001C0438G

MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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

Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project
710 Rowland Street
Fairfield, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

June 2014

FUSS & O'NEILL

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

Project No. 20140277.B9E

FUSS & O'NEILL
EnviroScience, LLC

June 20, 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
710 Rowland Street, Fairfield, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.B9E
Quisenberry Arcari Project No. 1346-07

Dear Mr. Arcari:

Enclosed is the revised report for the limited hazardous materials building inspection performed at 710 Rowland Street in Fairfield, Connecticut.

The inspection was performed on May 13, 2014, by Fuss & O'Neill EnviroScience, LLC state-licensed inspectors and included an asbestos inspection, testing for lead-based paint, lead paint risk assessment, airborne radon gas 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

Timothy M. Downey
Senior Project Manager

Enclosure

56 Quarry Road
Trumbull, CT
06611
t 203.374.3748
800.286.2469
f .203.374.4391

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

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FUSS & O'NEILL
EnviroScience, Inc.

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Quisenberry Arcari Architects, LLC
710 Rowland Street, Fairfield, Connecticut

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FUSS & O'NEILL
EnviroScience, Inc.

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Limited Hazardous Materials Building Inspection Report
710 Rowland Street, Fairfield, Connecticut

Appendices

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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	LEAD IN DUST SAMPLE RESULTS AND CHAIN OF CUSTODY FORM
APPENDIX F	LEAD IN DRINKING WATER SAMPLE RESULTS AND CHAIN OF CUSTODY FORM
APPENDIX G	AIRBORNE RADON GAS ASSESSMENT RESULTS AND CHAIN OF CUSTODY FORM

1 Introduction

On May 13, 2014 Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technicians Mr. Robert Hobbins and Mr. Ulkens Auguste performed a limited hazardous materials building inspection of the residential structure at 710 Rowland Street in Fairfield, Connecticut (the "Site"). Mr. Hobbins and Mr. Auguste are both State of Connecticut-licensed Asbestos Consultants - Inspectors and Certified Lead Paint Inspectors. Mr. Ulkens Auguste is also a State of Connecticut-Certified Lead Paint Inspector/Risk Assessor. Mr. Auguste performed a lead paint risk assessment within the residence. The residential structure was occupied at the time and date of the inspection. Refer to *Appendix A* for EnviroScience state licenses, 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 *Residence Rehabilitation Letter* dated March 26, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

- A inspection for asbestos-containing materials (ACM) associated with raising of the structure to proper flood elevation and new garage floor assembly;
- Testing and risk assessment of painted surfaces coated with lead-based paint (LBP);
- An evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB)-containing ballasts;
- An inventory of light tubes/lamps, and devices for mercury;
- Airborne radon gas assessment;
- A mold assessment;

2 Asbestos Inspection

A Property Owner must ensure that performance of a thorough inspection for ACM, prior to possible disturbance of materials containing asbestos 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 40 CFR Part 61, Subpart 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 applied by spray or trowel, 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, but recommends the use of sampling protocols included in EPA Title 40 CFR, Part 763, Subpart E, Asbestos Containing Materials in Schools.

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 (≤) 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 Inspectors collected samples and prepared proper chain of custody forms for transmission of samples to an accredited 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. Any materials at the Site not listed in the following tables should be considered suspect ACM until sample collection and analytical results indicate otherwise. Refer to *Appendix B* for PLM analytical results for asbestos bulk samples and chain of custody forms.

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.
Lower Level Mechanical Room	Interior Door Caulking	6% Chrysotile	1 Door System	0513BH06A

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.
Lower Level Mechanical Room	Top & Base Coat Wall Plasters	0513BH01A-C, 02A-C
Garage	Sheetrock & Taping Compound	0513BH03A-B, 04A-B, 05
Main Building and Garage	Concrete Foundation	0513BH07A-B
Garage	Concrete Foundation Grout	0513BH08A-B, 09A-B
	Concrete Floor	0513BH10A-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 ACM. Materials that are identified as "none detected" are specified as not containing asbestos. EPA recommends that materials identified as containing less than one percent (< 1%) asbestos be further analyzed using the EPA point count method or by Transmission Electron Microscopy (TEM).

2.4 Conclusion

Interior ACM 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 the materials. This is a State of Connecticut Department of Public Health (CTDPH) Standards for Asbestos Abatement requirement.

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 that would disturb hidden and inaccessible areas not included in the

scope of work for this inspection. Any suspect material encountered during renovation/demolition that is not identified in this report as being non-ACM, should be assumed to be ACM unless sample results indicate otherwise.

3 Lead-Based Paint Testing

On May 13, 2014, comprehensive testing for LBP was performed within the residential structure located at 710 Rowland Street in Fairfield, Connecticut, by EnviroScience's Environmental Technicians Robert Hobbins and Ulkens Auguste. The purpose of the testing was for compliance with EPA's Renovation, Repair and Painting Rule (RRP) (EPA Title 40 CFR, Parts 745.80 through 92) and the United States Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35. Subparts B-R). After lead paint was identified within the residence, Mr. August performed a risk assessment for the purpose of HUD Lead-Safe Housing Rule (24 CFR 35, Sub-part B-R) compliance.

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 components representing the initial painting history of the building and any building-wide repainting by the owners/managers of the building components were tested. Individual repainting efforts are not discoverable in such a limited testing program. The purpose of this testing was to identify trends in the painting history of the building to determine if Toxicity Characteristic Leaching Procedure (TCLP) analysis is required. Additionally, representative lead in dust wipe samples, lead in soil samples, and lead in drinking water samples were collected for the risk assessment portion of the project.

The Site structure is constructed with a vinyl siding exterior with metal, wood, and vinyl window and door systems. The interior walls are constructed of plaster and sheetrock; the floors are composed of wood and concrete. The building was occupied 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 this inspection.

3.2 XRF Testing Results

The testing indicated consistent painting trends throughout the building interior and exterior. No painted building components were determined to contain toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter [mg/cm^2] of paint), with the exception of the following:

Table 3
Lead Painted Building Components

Building Component	Location	Reading (mg/cm²)	Defective?
Stairwell Wood Trim	Lower Level Mechanical Room	1.8	No
Stairwell Concrete Riser		1.1	No
Wood Door Jamb	Front Entry	3.7	No

Lead testing field data sheets are provided as *Appendix D* of this report.

3.3 Dust Wipe Samples

Representative dust wipe samples were collected inside the Site structure to evaluate whether a lead dust hazard existed or not. The sample numbers, locations, and results are as follows:

Table 4
Lead Dust Wipe Sample Results

Sample No.	Location	Results*
051314UA-17	Front Entryway (Room 1) – Floor	<10 μg/ft²
051314UA-18	Front Entryway (Room 1) – Floor *Duplicate Sample*	<10 μg/ft²
051314UA-19	Living Room 1 (Room 2) – Floor	<10 μg/ft²
051314UA-20	Living Room 1 (Room 2) – Window Sill	<40 μg/ft²
051314UA-21	Kitchen (Room 4) – Floor	<10 μg/ft²
051314UA-22	Kitchen (Room 4) – Window Sill	<40 μg/ft²
051314UA-23	Bathroom (Room 5) – Floor	<10 μg/ft²
051314UA-24	Den/Office (Room 6) – Floor	<10 μg/ft²
051314UA-25	Den/Office (Room 6) – Window Sill	<40 μg/ft²
051314UA-26	Field Blank	<10 μg/ft²
051314UA-27	Field Blank	<10 μg/ft²

* μg/ft² = micrograms per square foot

Dust wipe samples were collected from window sill and floor locations as delineated on our sample log. The dust wipe sampling was conducted in accordance with the protocol outlined in the document "Lead Testing Procedures and Equipment" (refer to *Appendix C*). Sample results were compared to State of Connecticut standards for dust as follows:

- 40 µg/ft² - for floors; and
- 250 µg/ft² - for window sills

The analytical sample locations and analytical results are provided as *Appendix E* in this report.

3.4 Soil Sampling

Bare soil areas were not identified on the property; therefore, lead in soil was not assessed

3.5 Drinking Water Sample Results

Representative drinking water samples (first draw and flush) were collected from the kitchen faucet to evaluate whether a lead in drinking water hazard exists at the Site structure.

The analytical results of the samples indicate lead concentrations below the EPA reporting limit of 0.015 milligrams per liter (mg/L) for lead in drinking water.

The analytical sample locations and results are provided as *Appendix F* of this report.

3.6 Conclusion

The following building components were determined to be coated with toxic levels of lead in paint:

- Lower Level Mechanical Room – Stairwell Wood Trim and Concrete Riser;
- Front Entryway – Wood Door Jamb

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.

Those surfaces which contain lead paint are subject to RRP work practice and training requirements if more than the de-minimus amounts are disturbed in renovation or for projects involving window replacement. If a specific component or surface is not identified as having been tested, it should be presumed to be coated with LBP until tested and proven otherwise. Contractor's should be aware that the threshold limit of 1.0 mg/cm² for purposes of RRP requirements is not recognized by OSHA, and employee exposures are still subject to the Lead in Construction regulation, regardless of paint testing results.

The Contractor shall be aware 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 employee exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers and building occupants from lead exposure.

If these building components are to be demolished during renovations, we recommend collecting a sample of the anticipated waste stream and analyzing using the TCLP method to determine waste management options.

Dust wipe sample results were below the CTDPH standard on floors and window sill surfaces; a lead dust hazard does not exist in the areas tested.

The water sample analytical results were below the reporting limit of 0.015 mg/L for lead in drinking water. A lead in drinking water hazard does not exist at the Site structure.

The Contractor shall be aware 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 employee exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers and building occupants from lead exposure.

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 diethylhexl 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.

On May 13, 2014, EnviroScience representative Robert Hobbins performed a visual inspection of representative 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 label indicating "No PCB's" 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.

4.1 Results

The light ballasts observed at the Site structure were labeled with either the manufacturer's information, or a "No PCBs" label. The light ballasts labeled with the manufacturer's information are assumed to contain PCBs and the light ballasts labeled "No PCBs" are assumed to contain DEHP.

4.2 Conclusion

If the renovation activities will disturb these materials, the light ballasts not labeled "No PCBs" should properly recycled as PCBs, and the remaining labeled "No PCBs" ballasts properly recycled as assumed DEHP-containing items prior to disturbance.

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 EPA RCRA hazardous waste regulations. Mercury lamps according to the EPA are considered a universal waste, requiring all fluorescent lamps to be recycled or disposed as hazardous waste.

On May 13, 2014, EnviroScience's representative Mr. Hobbins performed a visual inspection and inventory of mercury lamps/tubes, thermostats, and mercury switches. These fixtures were inventoried in-place.

5.1 Conclusion

No fluorescent light bulbs/tubes, thermostats, switches, or gauges were observed within accessible and visible areas of the Site structure.

6 Mold Visual Assessment

On May 13, 2014, EnviroScience representative Mr. Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

No suspect mold growth was identified on accessible/visible building materials observed within the Site structure at the time and date of the inspection

7 Airborne Gas Radon Information, Sampling and Procedure

7.1 Radon Gas Facts and Health Effects

Radon is a naturally-occurring radioactive gas produced by the natural breakdown (decay) of uranium which is found in soil and rock throughout the US. Radon 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 identified radon 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 airborne radon levels within a building.

Radon is a colorless, odorless and tasteless gas, and thus, the only way to determine if an elevated level of radon gas is present in a building is to test the air. The air in each frequently-occupied room that is in contact with the ground should be tested, as even adjacent rooms can have significantly different levels of radon gas.

Again, radon gas is a known human carcinogen. Prolonged exposure to elevated radon gas 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 gas 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 currently being conducted.

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 is the second-leading cause of lung cancer deaths (after smoking), and is the leading cause among non-smokers.

7.2 Airborne Radon Sampling

From May 13, 2014, to May 15, 2014, EnviroScience representatives deployed passive radon gas detection canisters in limited areas within the residence located 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 the start of the testing period.

Sample analysis was performed by RTCA and results are included in *Appendix G*.

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 conducted. If both canister results are below the EPA standard, then the RPD does not need to be 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 sampling procedures. Blanks are unopened, unexposed canisters which are deployed and shipped with the exposed canisters, so the processing laboratory treats the canisters without bias. The number of blanks should be 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 deployed in target locations within the building during sampling that was performed May 13, 2014, to May 15, 2014. The concentrations of radon gas in the samples during the initial assessment ranged from 0.1 pCi/L to 0.9 pCi/L. The EPA threshold for radon is 4.0 pCi/L.

In *Table 5* below, the locations and results of quality control duplicate tests for May 13, 2014 to May 15, 2014, are listed.

Table 5
Duplicate Sample Results – May 13, 2014 – May 15, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Living Room 1	2314041 & 2314047	0.9	0.7	0.8	Percent Difference Not Needed; (No Concentrations Above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 6* below, the locations and results of quality control blank tests for May 13, 2014 to May 15, 2014, are listed.

Table 6
Blank Samples Results – May 13, 2014 – May 15, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Basement	2299373	0.3

Note Blank testing results were satisfactory

In *Table 7* below, the locations, canister numbers, and radon gas concentrations are listed for the airborne radon assessment conducted on May 13, 2014 to May 15, 2014, are listed.

Table 7
Radon Sampling Results – May 13, 2014 – May 15, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Living Room 1	2299541	0.5
Basement	2299434	2.6

7.5 Conclusion

During the course of the initial radon gas measurement assessment, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within building located at Site Structure. Each of the four samples analyzed indicated radon gas levels were below the EPA recommended action level of 4.0 pCi/L.

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:

Kevin McCarthy
Project Manager

Timothy M. Downey
Senior Project Manager

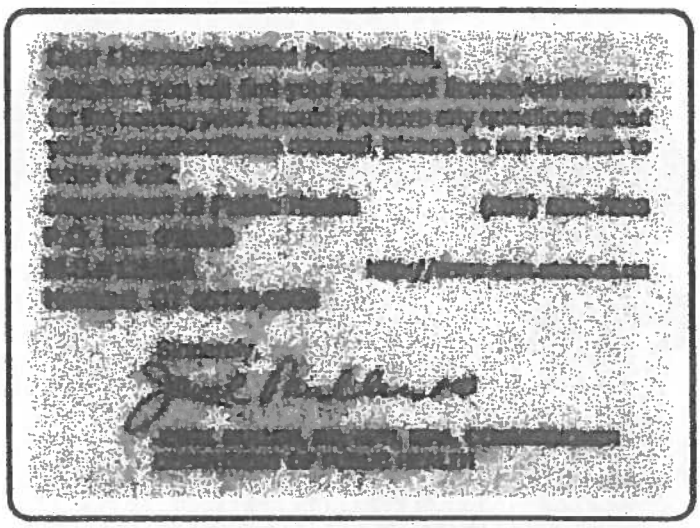
FUSS & O'NEILL
EnviroScience

Appendix A

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

0001008 FP **PRSRT T5 0 0664 06040

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



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
THIS PERSON HAS BEEN LICENSED
BY THE DEPARTMENT AS A
ASBESTOS CONSULTANT INSPECTOR

JOHN R. HOBBINS

LICENSE NO.
000700
CURRENT THROUGH
01/31/15
VALIDATION NO.
08-709142

EMPLOYER COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
JOHN R. HOBBINS
LICENSE NO.
000700
VALIDATION NO.
08-709142
CURRENT THROUGH
01/31/15
PROFESSION
ASBESTOS CONSULTANT INSPECTOR

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
JOHN R. HOBBINS
LICENSE NO.
000700
VALIDATION NO.
08-709142
CURRENT THROUGH
01/31/15
PROFESSION
ASBESTOS CONSULTANT INSPECTOR

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

John Robert Hobbins

XXX-XX-6833

Has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under AHERA Title II

40 CFR Part 763

John Rowbald, Principal Instructor

Robert L. May, Jr., Training Manager

September 4, 2013

Date of Course

AI-R-09/13-6

Certificate Number

September 4, 2013 - P

Examination Date & Grade

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 [redacted]

[redacted]

Write or Call:

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

[redacted]

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 badge card in a prominent place in your office or place of business.
3. The notice card is for you to verify on your premises. If you do not wish to carry the notice card, place it in a secure place.
4. The employer's copy is for persons who need documentation proving that you have notified the Department of Public Health that you have hired a lead inspector. The lead inspector must keep this card with him/her at all times while performing lead inspection work. Only one copy of this card will be supplied to you.

[redacted]

Lead Inspector

[redacted]

John R. Hobbins

[redacted]

[redacted]

John R. Hobbins

[redacted]

Lead Inspector

[redacted]

[redacted]

John R. Hobbins

[redacted]

Lead Inspector

[redacted]

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

Principal Instructor: Neal Freuden

January 30, 2014
Date of Course

January 30, 2014
Exam Date

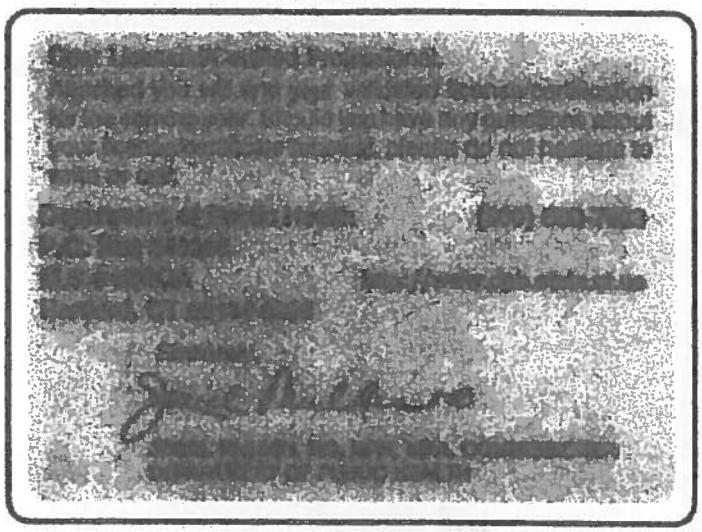
CTLIR-205
Certificate Number

January 30, 2015
Expiration Date

Training Manager: Gregory Morsch

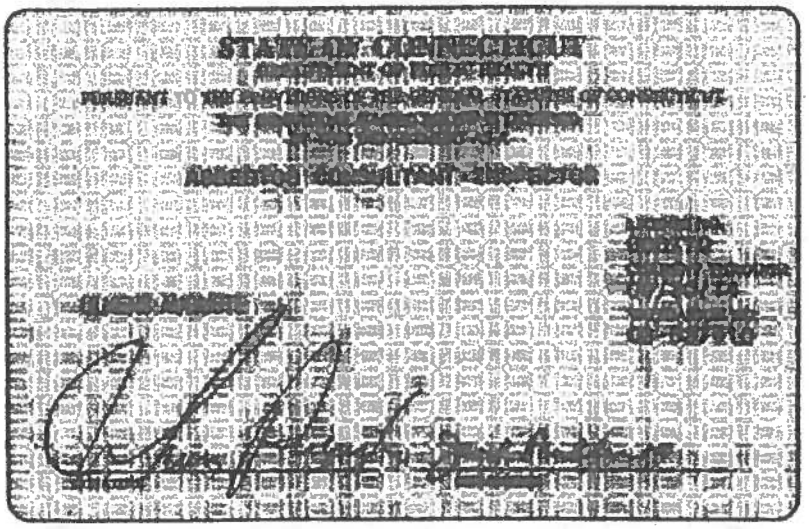
Training received complies with the requirements of the Connecticut Department of Public Health pursuant to Section 477 of the Connecticut General Statutes.

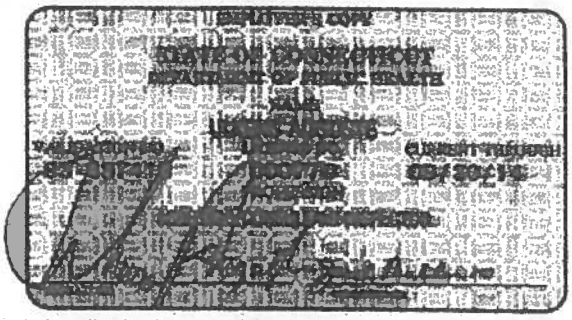
0001709 FP **PRSRT T7 0 1284 06040
ULIKENS AUGUSTE
146 HARTFORD RD
C/O FUSS & O'NEIL ENVIRO SCIENCE
MANCHESTER CT 06040-5992

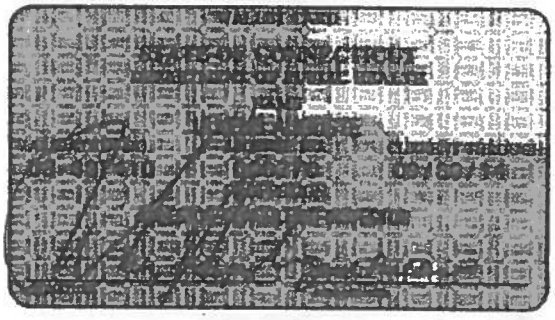


INSTRUCTIONS:

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 personal file. Only one copy of this card can be supplied to you.







Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

Ulkens Auguste

xxx-xx-6277

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

January 6, 2014

Date of Course

AI-R-01/14-4

Certificate Number

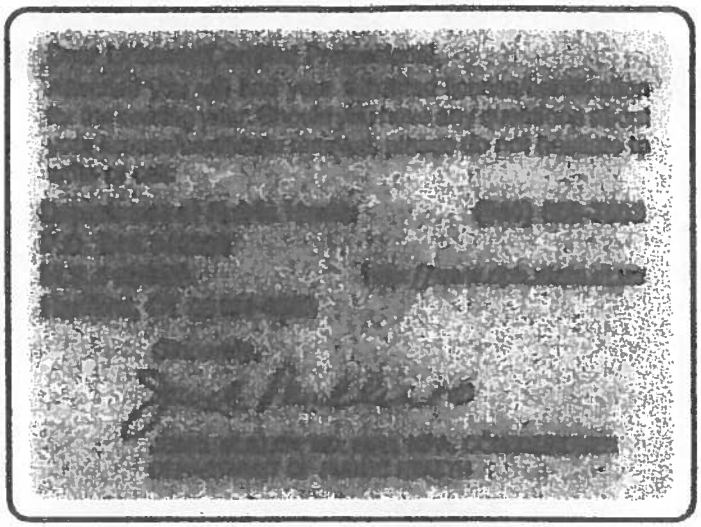
January 6, 2014

Examination Date

January 6, 2015

Expiration Date

0001703 FP **PRIOR T7 0 1234 08040
ULKENS AUGUSTE
146 HARTFORD RD
C/O FUSS & O'NEIL ENVIRO SCIENCE
MANCHESTER CT 06040-5992



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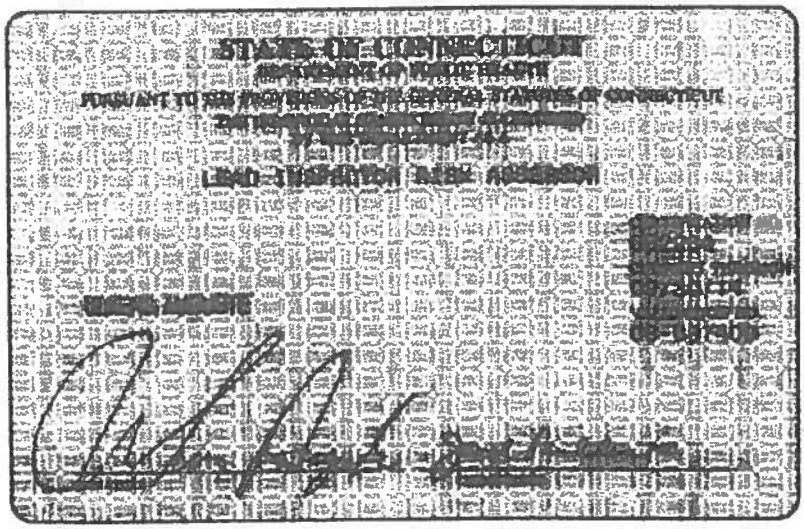
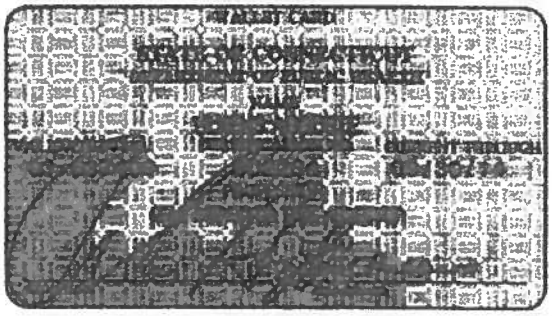
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current license/certification in order to retain employment or privileges. The employer's card is to be presented 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.





Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

Ulkens Auguste

xxx-xx-6277

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

Robert L. May, Jr., Training Manager

February 20 & 25, 2014

Date of Course

LIRA-R-02/14-1

Certificate Number

February 25, 2014

Examination Date

February 25, 2015

Expiration Date

FUSS & O'NEILL
EnviroScience, Inc.

Appendix B

Asbestos Sample Results and Chain of Custody Forms

FUSS & O'NEILL
EnviroScience, LLC
146 Hartford Road, Manchester, CT 06040
www.fando.com
Phone (860)646-2469 Fax (860) 649-6883

0414 13263

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 3

Project Name: Storm Sandy Residential Rehab–710 Rowland Road, Fairfield, CT Project No. 20140277.B9E

Building: 710 Rowland Road Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0513BH01A	Lower Level Mechanical Room	Grey Base Coat Wall Plaster	
0513BH01B	Lower Level Mechanical Room	Grey Base Coat Wall Plaster	
0513BH01C	Lower Level Mechanical Room	Grey Base Coat Wall Plaster	
0513BH02A	Lower Level Mechanical Room	White Top Coat Wall Plaster	
0513BH02B	Lower Level Mechanical Room	White Top Coat Wall Plaster	
0513BH02C	Lower Level Mechanical Room	White Top Coat Wall Plaster	
0513BH03A	Garage	Sheetrock	
0513BH03B	Garage	Sheetrock	
0513BH04A	Garage	Taping Compound	
0513BH04B	Garage	Taping Compound	
0513BH05	Garage	Sheetrock & Taping Compound Composite	
0513BH06A	Lower Level Mechanical Room	Interior Door Caulking Compound	
0513BH06B	Lower Level Mechanical Room	Interior Door Caulking Compound	
0513BH07A	Main Building	Concrete Foundation	
0513BH07B	Main Building	Concrete Foundation	

RECEIVED EMSL CINNAMINSON, N.J. 2014 MAY 14 A 8:48

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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. Hobbins **Date:** 5-13-14 **Time:** _____

Samples [Rec'd][Sent by] [BA][ ] **Date:** [5-13][ ] **Time:** _____

Samples Received by: VCFx **Date:** 5-14-14 **Time:** 9:40

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

C:\Users\jhobbins\Desktop\Storm Sandy\B9E\COC_710 Rowland_BH_2014-0513.doc

21

FUSS & O'NEILL
EnviroScience, LLC
146 Hartford Road, Manchester, CT 06040
www.fando.com
Phone (860)646-2469 Fax (860) 649-6883

041413263

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: Storm Sandy Residential Rehab–710 Rowland Road, Fairfield, CT Project No. 20140277.B9E

Building: 710 Rowland Road Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0513BH08A	Garage	Concrete Foundation	
0513BH08B	Garage	Concrete Foundation	
0513BH09A	Garage	Concrete Foundation Grout	
0513BH09B	Garage	Concrete Foundation Grout	
0513BH10A	Garage	Concrete Floor	
0513BH10B	Garage	Concrete Floor	

2014 MAY 14 A 10:48
EMSL
CINNAMINSON, N.J.

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 Hour

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. Hobbins **Date:** 5-13-14 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [5-13] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

C:\Users\jhobbins\Desktop\Storm Sandy\B9E\COC_710 Rowland_BH_2014-0513.doc

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:	041413263
CustomerID:	ENVI54
CustomerPO:	20140277.B9E
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	05/14/14 9:40 AM
Analysis Date:	5/14/2014
Collected:	5/13/2014

Project: **Storm Sandy Residential Rehab-710 Rowland Road, Fairfield, CT**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
0513BH01A *041413263-0001*	Lower level mechanical room - Grey Base Coat Wall Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH01B *041413263-0002*	Lower level mechanical room - Grey Base Coat Wall Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH01C *041413263-0003*	Lower level mechanical room - Grey Base Coat Wall Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH02A *041413263-0004*	Lower level mechanical room - White Top Coat Wall Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH02B *041413263-0005*	Lower level mechanical room - White Top Coat Wall Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH02C *041413263-0006*	Lower level mechanical room - White Top Coat Wall Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH03A *041413263-0007*	Garage - Sheetrock	Gray/Tan Fibrous Homogeneous	20% Cellulose 3% Glass	77% Non-fibrous (other)	**None Detected**

Analyst(s)
Adam Gart (9)
Amy Johnson (11)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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

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

Initial report from 05/14/2014 16:18:38

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:	041413263
CustomerID:	ENVI54
CustomerPO:	20140277.B9E
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	05/14/14 9:40 AM
Analysis Date:	5/14/2014
Collected:	5/13/2014

Project: **Storm Sandy Residential Rehab-710 Rowland Road, Fairfield, CT**

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

			Non-Asbestos				Asbestos	
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	%	Type
0513BH03B *041413263-0008*	Garage - Sheetrock	Brown/White Fibrous Homogeneous	20% 3%	Cellulose Glass	77%	Non-fibrous (other)		**None Detected**
0513BH04A *041413263-0009*	Garage - Taping Compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
0513BH04B *041413263-0010*	Garage - Taping Compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
0513BH05 *041413263-0011*	Garage - Sheetrock & Taping Compound Composite	Brown/White Fibrous Homogeneous	15%	Cellulose	85%	Non-fibrous (other)		**None Detected**
0513BH06A *041413263-0012*	Lower level mechanical room - Interior Door Caulking Compound	Tan Fibrous Homogeneous			94%	Non-fibrous (other)	6%	**Chrysotile**
0513BH06B *041413263-0013*	Lower level mechanical room - Interior Door Caulking Compound							**Stop Positive (Not Analyzed)**
0513BH07A *041413263-0014*	Main building - Concrete Foundation	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**

Analyst(s)
Adam Gart (9)
Amy Johnson (11)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 05/14/2014 16:18:38

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:	041413263
CustomerID:	ENVI54
CustomerPO:	20140277.B9E
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	05/14/14 9:40 AM
Analysis Date:	5/14/2014
Collected:	5/13/2014

Project: **Storm Sandy Residential Rehab-710 Rowland Road, Fairfield, CT**

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
0513BH07B *041413263-0015*	Main building - Concrete Foundation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH08A *041413263-0016*	Garage - Concrete Foundation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH08B *041413263-0017*	Garage - Concrete Foundation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH09A *041413263-0018*	Garage - Concrete Foundation Grout	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH09B *041413263-0019*	Garage - Concrete Foundation Grout	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH10A *041413263-0020*	Garage - Concrete Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0513BH10B *041413263-0021*	Garage - Concrete Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Adam Gart (9)
Amy Johnson (11)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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

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

Initial report from 05/14/2014 16:18:38

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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.

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Lead Dust Wipe Sampling Protocol

Data Collection

A. A description of the sample location is recorded.

B. Surface type (floor, windowsill, window well) is noted.

C. Surface area measurements are recorded.

Wipe Sampling Method

A. The area to be wiped is identified and measured.

B. A disposable glove is put on and the "ghost wipe" package is opened.

C. Without touching any other surface, the wipe is opened and placed flat down on the surface. Using firm, consistent pressure, a wipe is taken in a single "S" motion.

D. Next the wipe is folded in half with the contaminated side facing inward and another wipe is taken again at 90 degrees to the first "S" wipe. Do not use a scrubbing motion, but be sure to collect all visible dust in the measured area.

E. The wipe is folded again with the contaminated side inward. Without touching any other surface, the wipe is placed into a plastic centrifuge tube. The tube is sealed and labeled. The sample number indicates the date and sampler's identity.

F. The samples are submitted to our laboratory on our standard sample log. Date and time of transfer is recorded to ensure proper chain of custody. The analytical procedure utilized is a modified EPA SW-846-3050. Blanks are submitted in accordance with EnviroScience's QA/QC program.

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Appendix D

Lead Testing Field Data Sheets

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LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins **License Number:** 2156
XRF Model: LPA – 1B **Serial Number:** 3241
Date of Inspection: May 13, 2014 **Project Number:** 20140277.B9E

Property Information

Building Address: 710 Rowland Street (Street)
Fairfield (City) CT (State) Age of Property: N/A

Describe Structure:
Sheetrock ceilings and walls with wood /metal window and door systems and wood/concrete floors
Exterior vinyl siding and window systems with concrete foundation. Garage is sheetrock and concrete block walls, and concrete floors

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

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

Multiple Family Dwelling ☐

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	0830	1.1	1.1	1.0	1.06
Second Check	1009	1.0	1.1	1.0	1.06
Third Check	1120	1.2	1.1	1.0	1.10
Fourth Check					

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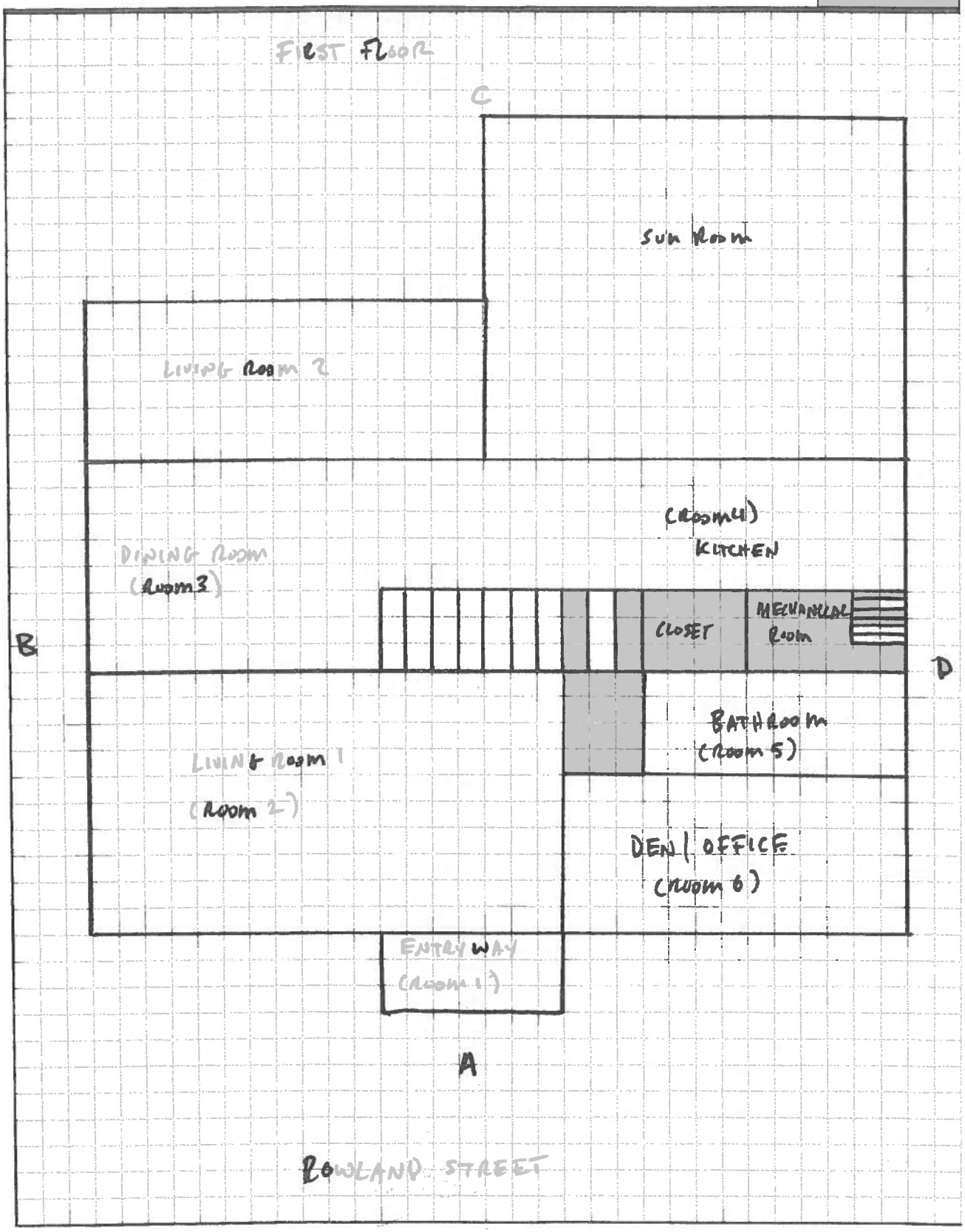
Prepared By	Date	Checked By	Date	Project No

Sheet No
of



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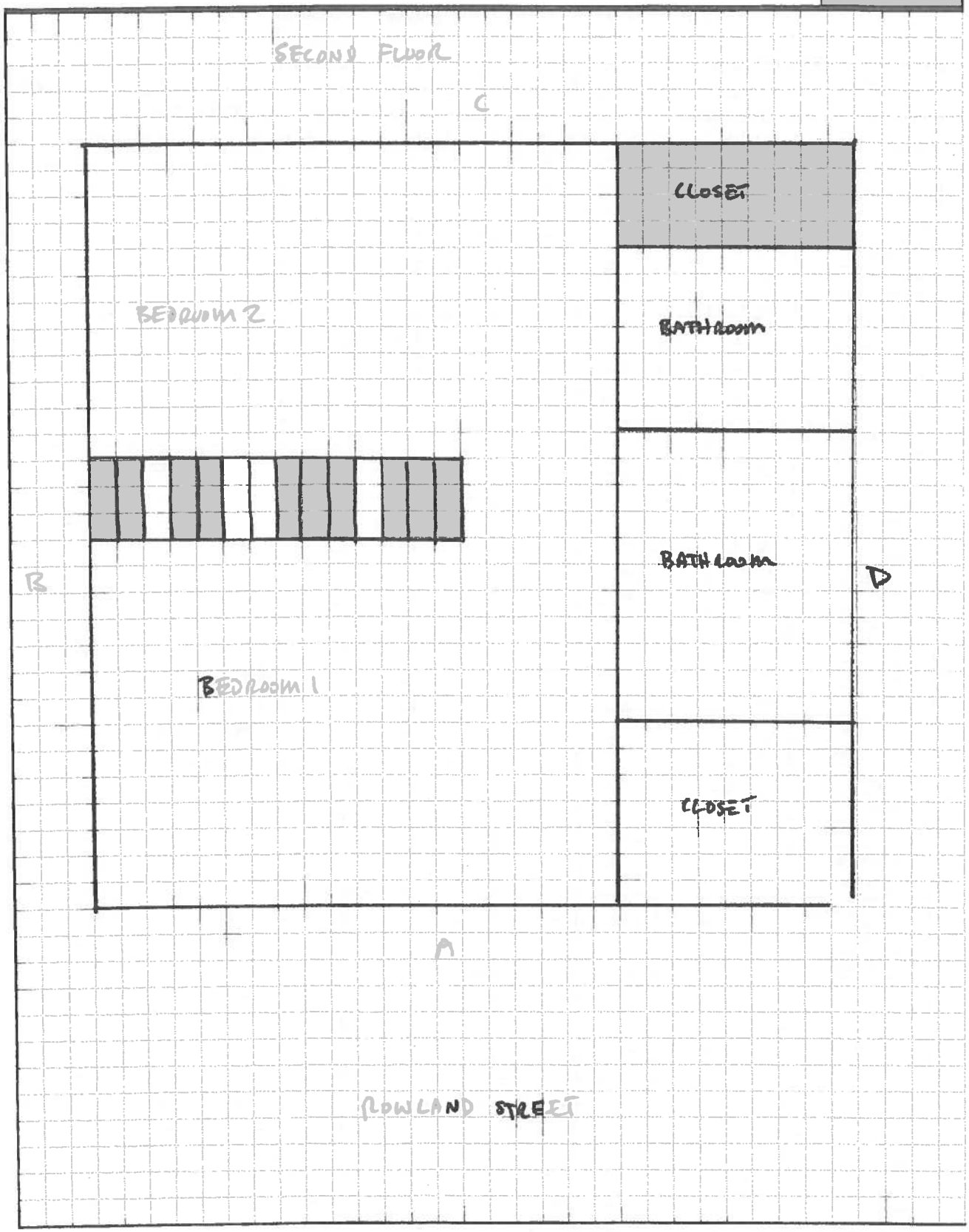
Prepared By	Date	Checked By	Date	Project No

Sheet No
of



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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**
Floor: 2nd **Room:** Bedroom 1 **Page** 1 **of** 19
Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E
Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * 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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor NC	0.1		W					
	Baseboards	-0.2		W					
A	Wall	-0.1		SR					
B	Wall	-0.1							
C	Wall	-0.2							
D	Wall	-0.1							
	Chair rail								
	Ceiling	-0.4		SR					
	Crown Molding								
	Door	-0.5		W					Crawl space
	Casing	-0.3		W					
	Jamb								
	Door	-0.5		W					
	Casing	0.1		W					
	Jamb	-0.1		W					mdish - 0.1
	Window Trim	-0.1		W					
	Sill	-0.2		W					
	Sash	-0.5		V					Int. Coat
	Well	-0.5		V					
	Cabinet Base	-0.1		V					wall cabinet
	Door Exterior	-0.2		W					
	Door Interior	-0.1		W					
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 2nd **Room:** Bedroom 1 Closet **Page** 2 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.2		W					Stain
	Baseboards	-0.5		W					
A	Wall	-0.0		SR					
B	Wall	-0.1							
C	Wall	-0.4							
D	Wall	-0.3							
	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 FC	-0.1		V					Factory Coat
	Well FC	-0.2		V					
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.3		W					
	Shelf Supports	-0.1		M					
	Radiator								
	Wall Molding								

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**
Floor: 2ND **Room:** Bedroom 1 Bath **Page** 3 **of** 19
Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E
Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * 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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.3		Ceramic					
	Baseboards	-0.4		W					
A	Wall	-0.1		SR					
B	Wall	-0.1							
C	Wall	-0.3							
D	Wall	-0.3							
	Chair rail								
	Ceiling	-0.2		SR					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door	-0.2		W					
	Casing	-0.1		W					
	Jamb	-0.2		W					
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior	-0.3		W					
	Door Interior	-0.2		W					
	Walls	-0.3		W					
	Shelves	-0.3		W					
	Shelf Supports	-0.2		W					
	Closet Shelf	-0.3		W					
	Shelf Supports								
	Radiator								
	Wall Molding								

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 2nd **Room:** Bedroom 2 **Page** 4 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor stain	-0.1		W					
	Baseboards	-0.2		W					
A	Wall	-2.0		SR					
B	Wall	-0.3		↓					
C	Wall	-0.2							
D	Wall	-0.2		↓					
	Chair rail								
	Ceiling	-0.4		SR					
	Crown Molding								
	Door	-0.1		W					
	Casing	-0.1		W					
	Jamb	-0.4		W					
	Door	-0.1							CLOSET
	Casing	-0.2							↓
	Jamb	-0.2							
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.2		W					
	Shelf Supports	-0.6		M					
	Radiator								
	Wall Molding								
	Skylight Trim	-0.1		W					
A	wall	-0.1		SR					CLOSET
B	wall	-0.2		↓					↓
D	wall	-0.1		↓					
	ceiling	-0.0		SR					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: **Room:** **Page** 5 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.5		cer.					
	Baseboards								
A	Wall	-0.1		SR					
B	Wall	-0.3							
C	Wall	-0.3							
D	Wall	-0.0							
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding								
	Door	-0.6							
	Casing								
	Jamb								
	Door								
	Casing								
	Jamb								
	Window Trim	0.0		W					
	Sill	-0.1		W					
	Sash	-0.2		W					
	Well	-0.2		V					
	Cabinet Base	-0.5		W					
	Door Exterior	-0.1		W					
	Door Interior	-0.2		W					
	Walls	-0.1		W					
	Shelves	0.1		W					
	Shelf Supports	0.2		W					
	Closet Shelf	-0.5		W					
	Shelf Supports	0.5		M					
	Radiator								
	Wall Molding								
A	Ceramic wall	-0.2		cer.					
B	~~C/O~~ wall	-0.0		SR					CLOSET
C		-0.1							
D	-0.0	-0.3							
	ceiling	-0.3		SR					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: **Room:** STAIRWELL **Page** 6 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.2		SR					
B	Wall								
C	Wall	-0.3							
D	Wall	-0.3							
	Chair rail								
	Ceiling	-0.1		SR					CLOSET AT TOP
	Crown Molding								
	Door								Door -0.2 W
	Casing								Ceiling -0.1 SR
	Jamb								A wall -0.3 SR
	Door								C. wall -0.1 SR
	Casing								D wall -0.2 SR
	Jamb								Base Board -0.1 W
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Hand Rail	-0.2		W					
	Ballister	-0.0		W					
	Stringer Trim	-0.2		W					
	Stringer	-0.1		W					
	Riser	-0.3		W					
	Tread	-0.3		W					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**
Floor: 1ST **Room:** Sun Room **Page** 7 **of** 19
Project Name: 710 Rowland Road. **Project Number:** 20140277.B9E
Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * 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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor stain	-0.1		W					
	Baseboards	-0.0		W					
A	Wall	-0.1		SR					
B	Wall	-0.5							
C	Wall	-0.1							
D	Wall	-0.3							
	Chair rail								CLOSET
	Ceiling	-0.2		SR					Pow -0.1 W
	Crown Molding								DT -0.5 W
	Door	-0.1		M					DJ -0.3 W
	Casing	-0.1		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.3		W					
	Sill	-0.1		W					
	Sash	-0.2		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Beam	-0.0		SR					
	Pow	-0.1		W					on wall
	DT	-0.1		W					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 1st **Room:** Living Room 2 **Page** 8 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor Stain	-0.2		W					
	Baseboards	-0.3		W					Baseboard trim -0.0- W
A	Wall	-0.2		SR					
B	Wall	-0.1							
C	Wall	-0.1							
D	Wall	-0.0							
	Chair rail								
	Ceiling	-0.2		OR					
	Crown Molding								
	Door French	-0.1		W					
	Casing	-0.0		W					
	Jamb	-0.0		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.2		W					
	Sill	-0.2		W					
	Sash FC	-0.2		V					
	Well FC	-0.5		V					
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves	-0.2		W					
	Shelf Supports	-0.1		W					
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

Notes:

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146 Hartford Road, Manchester, CT 06040

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

XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 1st **Room:** Kitchen / Dining **Page** 9 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor Stain	-0.0		W					
	Baseboards	-0.2		W					BB Trim -0.0 W
A	Wall	-0.3		SR					
B	Wall	-0.2							
C	Wall	-0.2							
D	Wall	-0.5							
	Chair rail								
	Ceiling	-0.5							
	Crown Molding	-0.3		W					
	Door								
	Casing	-0.1		W					
	Jamb								
	Door	-0.6		W					Closet
	Casing	-0.1		W					
	Jamb	-0.2		W					
	Window Trim	-0.0		W					
	Sill	-0.1		W					
	Sash FC	-0.0		V					
	Well FC	-0.2		V					
	Cabinet Base	-0.3		W					
	Door Exterior	-0.4		W					
	Door Interior	-0.3		W					
	Walls	-0.1		W					
	Shelves	-0.2		W					
	Shelf Supports	-0.3		W					
	Closet Shelf	-0.1		W					
	Shelf Supports	-0.2		W					
	Radiator								
	Wall Molding								
A	wall	-0.6		SR					Closet
B	wall	-0.5							
C	wall	-0.1							
	ceiling	-0.1		SR					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 1ST **Room:** Mech. Room **Page** 10 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.3		tile					
	Baseboards								
A	Wall	-0.4		SR					
B	Wall	-0.3							
C	Wall	-0.2							
D	Wall	-0.0		~~SR~~ P.					
	Chair rail								
	Ceiling	-0.2		SR					
	Crown Molding								
	Door	-0.3		~~SR~~ M					
	Casing	-0.1		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves	-0.1		W					
	Shelf Supports	0.0		W					
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	STAIR TREAD	-0.1		W					
	STAIR TRIM	1.8	✓	W	N				
	RISER	1.1	✓	C.	N				

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**
Floor: 1st **Room:** Den / OFFICE **Page** 11 **of** 19
Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E
Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * 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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.2		W					BSB molding -0.1 W
A	Wall	-0.3		SR					
B	Wall	-0.3							
C	Wall	-0.3							
D	Wall	-0.3							
	Chair rail								
	Ceiling	-0.2		SR					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door	-0.3		W					CLOSET
	Casing	-0.0		W					
	Jamb	-0.1		W					
	Window Trim	-0.1		W					
	Sill	-0.2		W					
	Sash	-0.2		W					
	Well	-0.3		W					
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.1		W					
	Shelf Supports	0.1		W					
	Radiator								
	Wall Molding								
B	wall	-0.2		SR					CLOSET
C	wall	-0.1							
D	wall	-0.1							
	ceiling	-0.5		SR					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 1ST **Room:** Bath **Page** 12 **of** 19

Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	0.2		ceramic					
	Baseboards								
A	Wall	-0.6		SR					
B	Wall	-0.2							
C	Wall	-0.4							
D	Wall	-0.1							
	Chair rail								
	Ceiling	-0.3		SR					
	Crown Molding								
	Door	-0.1		W					
	Casing	-0.4		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.1		W					
	Sill	-0.2		W					
	Sash FL	0.1		V					
	Well FL	-0.1		V					
	Cabinet Base	-0.2		W					
	Door Exterior	-0.0		W					
	Door Interior	-0.2		W					
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Drawer	-0.2		W					
	Med. Cab door	-0.5		W					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**
Floor: 1st **Room:** Common / corridor at Bath **Page** 13 **of** 19
Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E
Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * 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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.5		W					
	Baseboards	-0.2		W					
A	Wall	-0.2		SR					
B	Wall	-0.3							
~~C~~	~~Wall~~	~~-0.4~~							
D	Wall	-0.3							
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding								
	Door	-0.3		W					
	Casing	-0.2		W					
	Jamb	-0.1		W					
	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								

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**

Floor: 1st **Room:** Living Room 1 **Page** 14 **of** 19

Project Name: 710 Rowland Road **Project Number:** 20140277.B9E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.3		W					
A	Wall	-0.1		SR					
B	Wall	0.0		SR					
C	Wall	0.0		SR					
D	Wall	-0.3		SR					
	Chair rail								
	Ceiling	-0.3		SR					
	Crown Molding	-0.1		W					
	Door	-0.1		W					
	Casing	-0.6		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.1		W					
	Sill	-0.2		W					
	Sash	-0.3		V					
	Well	-0.3		V					
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 710 Rowland Road, Fairfield, CT **Apt. #:**
Floor: 1st **Room:** Foyer / Parking way **Page** 15 **of** 19
Project Name: 710 Rowland Road, **Project Number:** 20140277.B9E
Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * 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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.2		W					
A	Wall	-0.2		SR					
B	Wall	-0.2		SR					
C	Wall	-0.3		SR					
D	Wall	-0.4		SR					
	Chair rail								
	Ceiling	-0.3		SR					
	Crown Molding								
	Door	-0.1		M					
	Casing	-0.1		W					
	Jamb	3.7	✓	W	NO				Kick board 0.2 W
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.1		W					Closet
	Shelf Supports	0.1		W					A wall -0.5 SR
	Radiator								Door -0.0 W
	Wall Molding								DT -0.1 W
									DJ -0.2 W

Notes:

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 710 Rowland Rd, Fairfield, CT **Page** 16 **of** 19

Project Name: 710 Rowland Rd **Project Number:** 20140277.B9E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards	-0.3		V					
	Siding	-0.2		V					
	Upper Trim								
	Door	-0.1		m					
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door	-0.3		m					
	Window Sill	0.6		V					
	Trim	-0.0		V					
	Sash								
	Blind Stops								
	Storm Window	-0.1		m					
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor	-0.4		W					
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters	-0.2		W					
	Railing Cap	-0.1		W					
	Ceiling								
	Lattice	-0.1							
	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: 710 Rowland Rd, Fairfield, CT **Page** 17 **of** 19

Project Name: 710 Rowland Rd **Project Number:** 20140277.B9E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	0.6		CR					
	Skirt Board								
	Corner Boards	-0.2		✓					
	Siding	-0.1		✓					
	Upper Trim								
	Door								lower window -0.3 ✓
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	-0.2		✓					
	Trim	-0.0		✓					
	Sash								
	Blind Stops	-0.6		m					
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts	-0.1		m					
	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: 710 Rowland Rd, Fairfield, CT **Page** 18 **of** 19

Project Name: 710 Rowland Rd **Project Number:** 20140277.B9E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								Wood walk -0.1 W
	Skirt Board								
	Corner Boards	-0.5		W					
	Siding	-0.1		V					
	Upper Trim	-0.3		V					soffit
	Door	-0.2		M					
	Casing	-							Trellis -0.3 W
	Jamb	-0.1		W					
	Threshold								Upper face 0.1 V
	Kick Board								
	Storm Door								
	Window Sill								
	Trim	-0.3		V					
	Sash	-0.3		V					
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters	-0.3		W					
	Railing Cap	0.1		W					
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails	-0.2		W					
	Treads	-0.1		W					
	Risers	-0.2		W					
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 710 Rowland Rd, Fairfield, CT **Page** 14 **of** 19

Project Name: 710 Rowland Rd **Project Number:** 20140277.B9E

Project Manager: K..McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	-0.0		CR					
	Skirt Board								
	Corner Boards								
	Siding								
	Upper Trim								
	Door	-0.4		M					
	Casing	-0.0		V					
	Jamb	-0.0							
	Threshold								
	Kick Board								
	Storm Door	-0.0		M					
	Window Sill	-0.1		V					
	Trim	-0.2		V					Lower Window -0.1 V
	Sash								
	Blind Stops								
	Storm Window	-0.5		M					Trim above door -0.0 V
	Basement Sash								
	Frame								Garage Floor -0.2 CR
	Bulkhead								
	Downspouts								Garage Door Trim -0.1 V
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads	-0.1		W					
	Risers								
	Stringers								

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Appendix E

Lead in Dust Wipe Sample Results and Chain of Custody Form

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20140718

SAMPLE LOG FOR LEAD WIPES

Sheet No. 1 of 1

Project Name: Storm Sandy Rehab (Housing)
Building: 710 Rowland St. Fairfield, CT

Project Number: 20140277.B9E
Project Manager: KM

Sample ID Number	Sample Location/Building	Surface Component	Surface ~~Sq Ft~~ inch	Result (ug/ft)	Lab Number
051314UA -17	Room #1	Floor	144		07218-1
-18	Room #1 - Dup	Floor	144		-2
-19	Room #2	Floor	144		-3
-20	Room #2 - A. Window	W. Sill	36		-4
-21	Room #4	Floor	144		-5
-22	Room #4 - D. Window	W. Sill	36		-6
-23	Room #5	Floor	144		-7
-24	Room #6	Floor	144		-8
-25	Room #6 A. Window	W. Sill	36		-9
-26	Field Blank	N/A	—		-10
-27	Field Blank	N/A	—		-11

Analysis Method: EPA-SW-846-3050(MOD.)
Wipe Media ☒ ASTM ☐ Non ASTM

Turnaround Time 24hrs

Based on the turnaround time indicated above, analyses are due to Fuss & O'Neill EnviroScience on or before this date: 5/16/14
Please call the Fuss & O'Neill EnviroScience laboratory at 860-646-2469 if analyses will be late.

Fax Results To: Fuss & O'Neill EnviroScience Laboratory at 888-838-1160

Special Instructions:

Samples Collected By: William Augusta Date: 5/13/14 Time: 1340
Samples Rec'd/Sent By: [illegible] Date: 5/15/14 Time: [illegible]
Samples Received By: Date: Time:

Shipped To: ☒ EMSL (State) NJ ☐ Other

Method of Shipment: ☒ Fed Ex. ☐ UPS Overnight ☐ UPS Ground ☐ Other

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201407218
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	05/15/14 10:15 AM
Collected:	5/13/2014

Project: **20140277.B9E / Storm Sandy Rehab (Housing) / 710 Rowland St., Fairfield, CT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
051314UA-17	*0001*	5/13/2014	5/15/2014	144 in²	<10 µg/ft²
Site: Room #1- Floor					
051314UA-18	*0002*	5/13/2014	5/15/2014	144 in²	<10 µg/ft²
Site: Room #1-Dup- Floor					
051314UA-19	*0003*	5/13/2014	5/15/2014	144 in²	<10 µg/ft²
Site: Room #2- Floor					
051314UA-20	*0004*	5/13/2014	5/15/2014	36 in²	<40 µg/ft²
Site: Room #2-A-window- W.Sill					
051314UA-21	*0005*	5/13/2014	5/15/2014	144 in²	<10 µg/ft²
Site: Room #4- Floor					
051314UA-22	*0006*	5/13/2014	5/15/2014	36 in²	<40 µg/ft²
Site: Room #4-D-window- W. Sill					
051314UA-23	*0007*	5/13/2014	5/15/2014	144 in²	<10 µg/ft²
Site: Room #5- Floor					
051314UA-24	*0008*	5/13/2014	5/15/2014	144 in²	<10 µg/ft²
Site: Room #6- Floor					
051314UA-25	*0009*	5/13/2014	5/15/2014	36 in²	<40 µg/ft²
Site: Room #6-A- window- W.Sill					
051314UA-26	*0010*	5/13/2014	5/15/2014	n/a	<10 µg/wipe
Site: Field Blank					
051314UA-27	*0011*	5/13/2014	5/15/2014	n/a	<10 µg/wipe
Site: Field Blank					

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/16/2014 09:04:08

FUSS & O'NEILL
EnviroScience,LLC

Appendix F

Lead in Drinking Water Sample Results and Chain of Custody Form

CHAIN OF CUSTODY RECORD

Lab Tracking #: D514182

Client: Fuss & O'Neill Environmental Group LLC, 710 Rowland Rd Fairfield, CT

Project/PO #: 20140277.B1E

Sampler(s): Ulrike Augustin (signature)

Ulrike Augustin (print)

Requested Analyses: Lead in water

Cincta ID:

Lab Use	Field ID (please print)	Date	Time	# of Bottles	RSR Criteria		Lead in water								Notes
6451	0573-14/UA-15	5/13/14	1400	1	DW		X								First Draw - Kitchen
52	-16	"	1402	1	"		X								Flush - Kitchen

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Received By Laboratory: (Signature)	Date / Time
Ulrike Augustin	5/13/13				5/13/14 1558
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time		
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time		

Turn Around Time: 24 HR* ☐ 3 Day* ☑ 5 Day ☐ 48 HR* ☐ 4 Day* ☐ 10 Day ☐

*Turnaround times less than "5 Days" may be subject to priority fee charges. CTL will not be held liable for incorrectly filled out Chain of Custody Record. Samples held for 45 days from receipt.

Connecticut Testing Laboratories, Inc.
185 Gracey Ave. / Meriden, CT 06451
Tel. (203)-634-3731 / Fax (203) 630-1336

Date Samples Received: 05/13/14

Client Name : Fuss & O'Neill EnviroScience	CTL Lab No. : 0514182
Report Date : 05/15/14	PO/ Job No. : 20140277.B9E

RESULTS OF ANALYSIS

EPA Method 200.9

Matrix Type :		W	W		
CTL Sample No.:		6451	6452		
Field ID :		1st Draw	Flush		
		Kitchen Sink	Kitchen Sink		
		051314UA-15	051314UA-16		
Parameters	**RL**				**Date Analyzed**
Total Lead-mg/L	0.005	ND	ND		05/15/14

RL= Reporting Limit ND= Not Detected

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

FUSS & O'NEILL
EnviroScience, Inc.

Appendix G

Airborne Radon Gas Assessment Results and Chain of Custody Form

PC1405160089

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 5/16/2014

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

Client: Project # 20140277.B9E
Test Location 710 Rowland Street
Fairfield, CT 06824-

Individual Canister Results

Canister ID# : 2313919
Canister Type : Charcoal Canister 3 inch
Location : Den / Office - B
Radon Level : **0.1 pCi/L**
Error for Measurement is: ± 0.4 pCi/L

Test Start : 05/13/2014 @ 11:12
Test Stop : 05/15/2014 @ 11:26
Received: 05/16/2014 @ 10:18
Analyzed: 05/16/2014 @ 14:32

Canister ID# : 2314041
Canister Type : Charcoal Canister 3 inch
Location : Living room
Radon Level : **0.9 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 05/13/2014 @ 11:10
Test Stop : 05/15/2014 @ 11:26
Received: 05/16/2014 @ 10:18
Analyzed: 05/16/2014 @ 14:32

Canister ID# : 2314047
Canister Type : Charcoal Canister 3 inch
Location : Living room - D
Radon Level : **0.7 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 05/13/2014 @ 11:10
Test Stop : 05/15/2014 @ 11:26
Received: 05/16/2014 @ 10:18
Analyzed: 05/16/2014 @ 15:59

Canister ID# : 2314626
Canister Type : Charcoal Canister 3 inch
Location : Den / Office
Radon Level : **0.5 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 05/13/2014 @ 11:12
Test Stop : 05/15/2014 @ 11:26
Received: 05/16/2014 @ 10:18
Analyzed: 05/16/2014 @ 15:59

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

(914)345-3380
FAX (914)345-8546

2 Hayes Street, Elmsford, NY 10523
www.rtca.com

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 5/16/2014

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 free1-800-458-1158.

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 it's consultants based on RTCA-provided results.

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

(914)345-3380
FAX (914)345-8546

2 Hayes Street, Elmsford, NY 10523
www.rtca.com

FUSS & O'NEILL
EnviroScience, LLC

5/16/14
ENVIII

Radon Testing Summary Sheet

Contact/Phone #: Bob Hobbins/203-374-3748 x3526
Project #: 20140277.B9E
Building: 710 Rowland Street
Address: 710 Rowland Street
Fairfield, CT 06824

Placed by: B. Hobbins
Retrieved by: Tom Cruess
Start Date: 5-13-14
Stop Date: 5-15-2014
Weather at Placement: Cloudy - 65° F

email results to jhobbins@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 detector (room #, location in roo as necessary. Please detector is missing or damaged

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314041
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314041
Client
RADON TESTING CORP. OF AMERICA

Start Time: 11:10
Stop Time: 11:26
Identifier:
Living Room

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314047
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314047
Client
RADON TESTING CORP. OF AMERICA

Start Time: 11:10
Stop Time: 11:26
Identifier:
Living Room - D

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314626
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314626
Client
RADON TESTING CORP. OF AMERICA

Start Time: 11:12
Stop Time: 11:26.
Identifier:
Pen/office

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2313919
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2313919
Client
RADON TESTING CORP. OF AMERICA

Start Time:
Stop Time:
Identifier:
Pen/office - B

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

56 Quarry Road, Trumbull, CT 06611
t (203) 374-3748
f (203) 374-4391
www.FandO.com

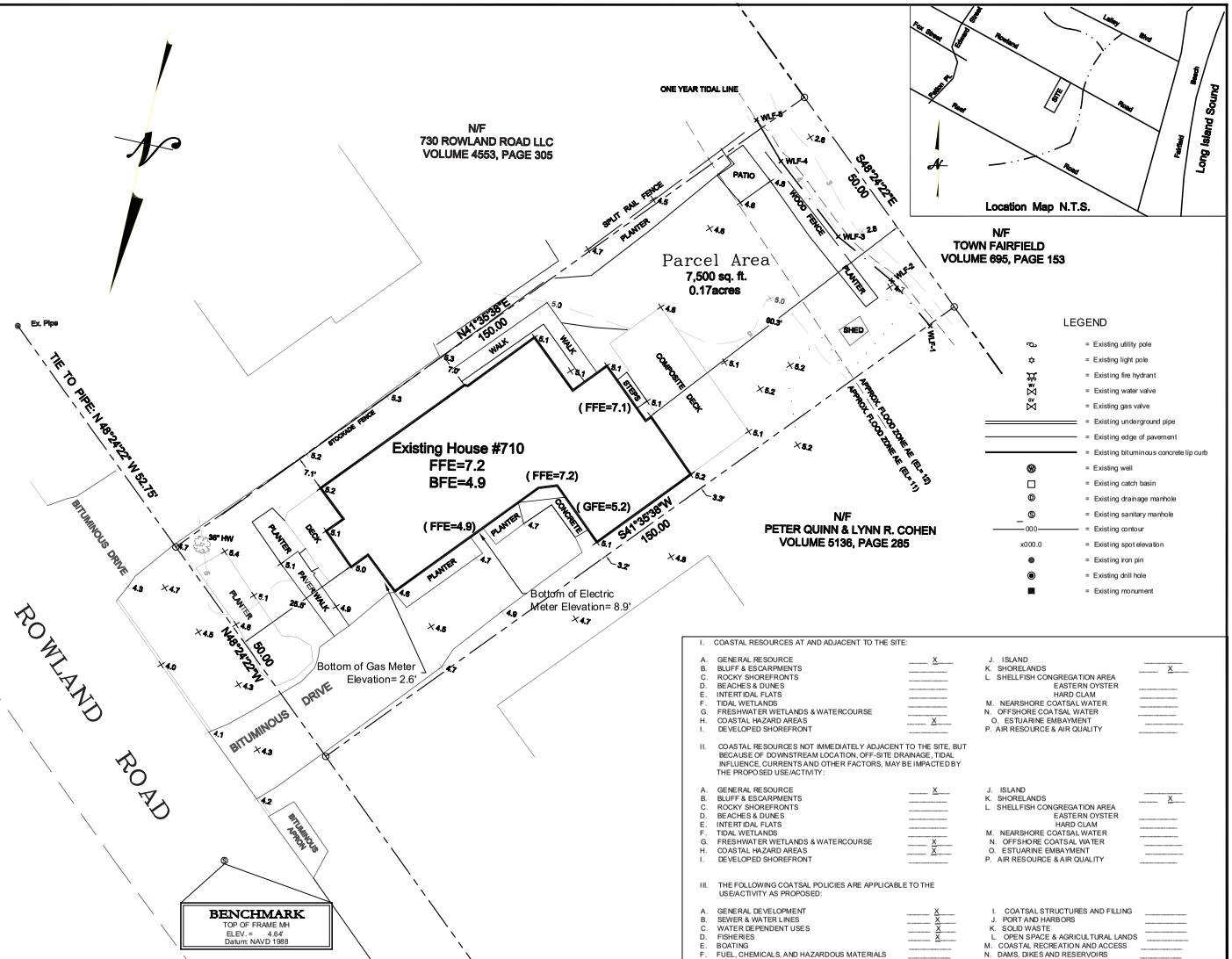
Connecticut
Massachusetts
New York
Rhode Island
South Carolina

Property 1830020000 at 710 ROWLAND ROAD

ZONING DATA

Zoning Information -- Zone "A" Residential

STATUS				
ITEM	REQUIRED	EXISTING CONDITION	PROPOSED	AS - BUILT CONDITION
MINIMUM LOT AREA	9,375 S.F.	7,500 S.F.		
MIN. SQUARE ON LOT	75'	50'		
MINIMUM LOT FRONTAGE	20'	50'		
DENSITY - MIN. LOT AREA PER DWELLING UNIT				
ONE FAMILY	9,375 S.F.	7,500 S.F.		
TWO FAMILY				
THREE FAMILY				
FOUR FAMILY				
EACH ADDITIONAL UNIT				
MINIMUM SETBACKS:				
FROM STREET LINE	30'	25.5'		
SIDE PROPERTY LINES	20'	3.2'		
(MORE THAN ONE STORY)	25'			
ONE SIDE PROPERTY LINE	30'			
REAR PROPERTY LINE	30'	60.5'		
ONE STREET LINE ON COR. (ONE STORY)	17'			
(MORE THAN ONE STORY)	22'			
MINIMUM FLOOR AREA:				
ONE STORY BUILDING	750 S.F.			
SPLIT LEVEL BUILDING	1,000 S.F.			
TWO OR MORE STORY BLDG TOTAL FLOOR AREA	1,000 S.F.	1,720 S.F.		
GROUND FLOOR AREA	650 S.F.			
FLOOR AREA PER APARTMENT	500 S.F.			
MAX. HEIGHT FOR BUILDING	32'			
MAX. NO. STORIES FOR BUILDING	2-1/2			
MAX. BLDG LOT COVERAGE (% OF LOT AREA)	20%	23%		
MAX. BLDG FLOOR AREA (% OF LOT AREA)	40%			
MINIMUM FIRST FLOOR ELEVATION	FIRM BFE= 11'	BFE = 7.1'		



SURVEY NOTES:

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

2. Type of survey performed: Zoning Location Survey - Proposed

3. Boundary determination category: Dependent Resurvey

4. Class of accuracy:
   Horizontal: A-2
   Vertical: T-2

5. The intent of this map is to depict or note the position of existing or proposed improvements with respect to applicable municipal setback requirements.

6. Map References:

   a) "Map for James J. Scully, Fairfield, Conn.", Prepared by Andrew S. Pennington, Scale: 1"=50', Dated: April 9, 1937.

   b) "Map of Fairfield Lawn in Fairfield-Conn.", For Robert L. Lowe, 409 Warner Bldg, 83 Fairfield Ave., Bridgeport, CT", Prepared by W.C. Morehouse, Scale: 1"=50', Dated: June 8, 1917.

7. Per agreement with property owner no boundary corners were set by this survey unless noted hereon. All monumentation found is depicted or noted hereon.

8. Zone: "A" Residential

9. Total area: 7,500 S.F. / 0.17 Ac.

10. Owner: Melvin J. and Beverly J. Silverman

11. Town of Fairfield Assessors Map #183 / Parcel #2

12. Filed in Volume 2752, Page 263 of the Town Clerk's office.

13. Contours are established from field topography.

14. Property is Serviced by Public Water and Sewer.

15. Vertical Datum is NAVD 1988 (Mean Sea Level) and based on the CGS Mon LX 0935.

16. There are wetlands located on the property as shown. There are no tidal wetlands on the subject property.

17. The subject property is located in Zone "AE", (BFE 11.0' and 12.0') which is a "Special Flood Hazard Area" subject to inundation by 1% annual-chance flood event determined by FEMA. The 500 Year Flood Event elevation is 13.75'.(See Firm Map 090007 Panel 438 of 626 G Map #09001C0438G, Revised July8, 2013). The subject property is in the Coastal Area Management (CAM).

17. This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and are not guaranteed. Notify "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations.

Average grade around residence:

Elevation= 5.0'
Elevation of roof peak= 27.0'
Elevation of roof eave= 12.9' / 25.2'
Elevation of roof midpoint= 27' + 12.9' =39.9' / 2 = 19.95'

Height of residence:

Elevation of roof midpoint - avg. grade = 19.95 - 5.0' = 14.95'
Finish floor elevation of elevated residence= 7.2'
Concrete floor elevation= 4.9'
Attached garage floor elevation= 5.2'
As-built building lot coverage: N/A at this time
As-built building floor area: N/A at this time

I. COASTAL RESOURCES AT AND ADJACENT TO THE SITE:

A. GENERAL RESOURCE	X	J. ISLAND	
B. BLUFF & ESCARPMENTS		K. SHORELANDS	X
C. ROCKY SHOREFRONTS		L. SHELLFISH CONGREGATION AREA	
D. BEACHES & DUNES		EASTERN OYSTER	
E. INTERTIDAL FLATS		HARD CLAM	
F. TIDAL WETLANDS		M. NEARSHORE COATSAL WATER	
G. FRESHWATER WETLANDS & WATERCOURSE		N. OFFSHORE COATSAL WATER	
H. COASTAL HAZARD AREAS	X	O. ESTUARINE EMBAYMENT	
I. DEVELOPED SHOREFRONT		P. AIR RESOURCE & AIR QUALITY	

II. COASTAL RESOURCES NOT IMMEDIATELY ADJACENT TO THE SITE, BUT BECAUSE OF DOWNSTREAM LOCATION, OFF-SITE DRAINAGE, TIDAL INFLUENCE, CURRENTS AND OTHER FACTORS, MAY BE IMPACTED BY THE PROPOSED USE/ACTIVITY:

A. GENERAL RESOURCE	X	J. ISLAND	
B. BLUFF & ESCARPMENTS		K. SHORELANDS	X
C. ROCKY SHOREFRONTS		L. SHELLFISH CONGREGATION AREA	
D. BEACHES & DUNES		EASTERN OYSTER	
E. INTERTIDAL FLATS		HARD CLAM	
F. TIDAL WETLANDS		M. NEARSHORE COATSAL WATER	
G. FRESHWATER WETLANDS & WATERCOURSE	X	N. OFFSHORE COATSAL WATER	
H. COASTAL HAZARD AREAS	X	O. ESTUARINE EMBAYMENT	
I. DEVELOPED SHOREFRONT		P. AIR RESOURCE & AIR QUALITY	

III. THE FOLLOWING COATSAL POLICIES ARE APPLICABLE TO THE USE/ACTIVITY AS PROPOSED:

A. GENERAL DEVELOPMENT	X	I. COATSAL STRUCTURES AND FILLING	
B. SEWER & WATER LINES	X	J. PORT AND HARBORS	
C. WATER DEPENDENT USES	X	K. SOLID WASTE	
D. FISHERIES	X	L. OPEN SPACE & AGRICULTURAL LANDS	
E. BOATING		M. COASTAL RECREATION AND ACCESS	
F. FUEL, CHEMICALS, AND HAZARDOUS MATERIALS		N. DAMS, DIKES AND RESERVOIRS	
G. DREDGING & NAVIGATION		O. TRANSPORTATION	
H. CULTURAL RESOURCES		P. ENERGY FACILITIES	

INITIALS OF TOWN PLAN & ZONING STAFF MEMBER

DATE	REVISION

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

#70145
Stephen M. Giudice, L.S. Reg. No.

ZONING LOCATION SURVEY
PREPARED FOR
QUISENBERRY ARCARI ARCHITECTS, LLC
710 ROWLAND ROAD
ASSESSORS MAP #184 / PARCEL #222
FAIRFIELD, CONNECTICUT

AUGUST 24, 2014 — 10' 5' 0 5' 10' — SCALE: 1"=10'

NOT VALID UNLESS RESURVEYED REALTIME APPROVED MEMBER

PROJECT #: 1139 — C.S. #: 477 — DWG. #: D

cole
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