

NEPA ENVIRONMENTAL REVIEW REPORT

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

**Site ID No. 1390
19 Young Dixon Way
Stamford, Connecticut**

May 2014

Ref. No. 104318.3.R01

Prepared for:

Merritt Construction Services, Inc.
1177 High Ridge Road
Stamford, CT 06905

Prepared by:



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1.0 - INTRODUCTION

Triton Environmental, Inc. (Triton) has prepared this National Environmental Policy Act (NEPA) evaluation for the property located at 19 Young Dixon Way in Stamford, Connecticut (the site) on behalf of Merritt Construction Services, Inc. The NEPA review is being prepared as a required component of the Community Development Block Grant – Disaster Recovery (CDBG-DR) program for properties impacted by Superstorm Sandy. The CDBG-DR program, run by the U.S. Department of Housing and Urban Development (HUD), provides funding to address repairs to certain impacted Connecticut properties. In order to receive funding from HUD, an environmental review of applicable properties is required.

The project is considered “categorically excluded” from NEPA. However, the project is still subject to additional statutory requirements. As such, Triton has completed the Statutory Checklist for state and federal laws, regulations, and Executive Orders (other than NEPA) in accordance with 24 CFR 58.5 and 58.6. In addition, Triton has completed specific testing at the site, as described in detail in this report.

1.1 - Proposed Site Modifications and Work Zone

The proposed work plan for the 19 Young Dixon Way property includes repairing siding on northeast corner of house, replacing roof shingles, and abating mold and water damage resulting from the leaking roof. As such, the work zone as described by Merritt consists of the roof and northeastern exterior side of the house, and the interior ceiling of a first floor bedroom.

2.0 - PRELIMINARY INSPECTION AND RESOURCE REVIEW

2.1 - Preliminary Site Inspection

As a preliminary step in the NEPA evaluation, Triton completed an initial inspection of the site, focused on the work zone described in Section 1.1. The inspection was completed on March 12 2014, by Mr. Mark Paulsson of Triton, accompanied by Andrew Peters of Merritt.

During the inspection, the following items were noted within the work zone that required further evaluation:

- Suspect asbestos containing materials;
- Potential lead based paint;
- Potential PCB containing sealants/caulk materials;
- Potential radon; and
- Potential mold.

Photographs of the work zone area are included as Appendix B.

2.2 - Preliminary Checklist Review

Following the initial site inspection, a preliminary statutory checklist review was completed in order to determine which items in the checklist did not apply to the site, and which items required additional evaluation and/or on-site surveys. As a component of the preliminary checklist review, Triton reviewed readily available resource maps, as well as online environmental databases. Copies of the maps reviewed are provided in Appendix A. Please refer to the statutory checklist for a listing of the resources evaluated (if any) for each statutory item.

Based on the site inspection and the review of applicable public resource materials, each of the items identified on the Statutory Checklist have been assigned a code of “Not Applicable to This Project,” with the exception of the items identified below:

2.2.1 - Historic Properties (Item 1)

Merritt provided Triton with a letter from the SHPO dated April 14, 2014 stating that the proposed renovations would not affect any historic properties. A copy of the letter is included in Appendix A.

2.2.2 - Lead Based Paint (Item 13C)

Based on the site inspection, potential lead based paint was observed within the work zone.

2.2.3 - Asbestos Containing Materials (Item 13D)

Based on the site inspection, potential asbestos containing materials was observed in the work zone.

2.2.4 - Radon (Item 13E)

Based on the Indoor Radon Potential Map of Connecticut published by the EPA (1997), the site is located in a moderate to high radon potential zone.

2.2.5 - Mold (Item 13F)

Based on the site inspection, mold is present within the work zone.

2.3 - Additional Items (Not Included in Statutory Checklist)

Although not specifically listed on the Statutory Checklist, Triton identified the following additional potential issues associated with the project:

- Based on the site inspection, potential PCB containing building materials was observed in the work zone.

3.0 - WORK ZONE SURVEYS

Based on the preliminary inspection of the work zone, Triton identified several items requiring further testing and evaluation as part of the environmental review.

3.1 - Lead Based Paint Testing

The potential presence of lead in painted surfaces specifically within the work area was evaluated using X-Ray Fluorescence (XRF) testing on April 14, 2014. Painted surfaces on both interior and exterior building material were tested. The survey was completed by a certified lead paint inspector using a Niton XL-300A XRF instrument.

XRF readings were taken at a total of three locations on both the interior of the work zone. Appendix C contains a spreadsheet summarizing the results. The results of the XRF testing indicate that none of the painted building materials screened contained lead concentrations greater than the action level of 1 mg/cm² (0.5% by weight).

3.2 - Asbestos Sampling

An asbestos survey was completed for the work zone on April 14, 2014 in accordance with Environmental Protection Agency (EPA) and State of Connecticut regulations. A walk-through and inspection of the building was conducted by a Connecticut licensed inspector. Once the location and quantity of each suspect ACM was documented, up to three representative samples of each suspect material was collected.

In accordance with EPA protocols, the samples of each suspect ACM were submitted to a state licensed laboratory and analyzed via the PLM method (EPA 600/R-93/116 Method). To avoid unnecessary sample analysis, the laboratory did not analyze duplicate homogeneous samples once asbestos was detected at concentrations greater than 1% in a related sample.

A total of nine samples were collected from five homogeneous building materials within the work zone. The results indicated that none of the building materials contained asbestos greater than one percent which is considered non-asbestos containing. A roster of the building materials suspected of containing asbestos (and subsequent samples) is attached as Appendix C. The laboratory analytical report is attached as Appendix D.

3.3 - Radon Sampling

Radon gas is a product of the decay series that begins with uranium. It is produced directly from radium, which can be commonly found in bedrock that contains black shale and/or granite. Radon gas can migrate through the ground and enter buildings through porous concrete or fractures and tends to accumulate in poorly ventilated basements. Long-term exposure to radon has been associated with lung cancer.

Triton conducted a radon assessment of the first floor level at the site. Two radon test kits were deployed at the lowest level of the building on April 14, 2014 and allowed to sample radon levels for approximately 75.5 hours. The EPA has established the guideline of 4 pCi/L as an “elevated” indoor radon level. The laboratory indicated results of 1.4 pCi/L and 1.8 pCi/L for the subject site, below the EPA action level. Laboratory analytical results are attached in Appendix D.

3.4 - PCB Sampling

Caulk/sealant sampling was conducted by Triton on April 14, 2014. Prior to sampling, Triton conducted a visual survey of the work zone for potentially PCB containing caulks and sealants. A sampling plan was then developed in order to collect a set of samples that were representative of the various materials observed. Where a significant number of homogeneous window units are present, the USEPA recommends that a minimum of 5% of windows be sampled to generate a statistically significant data set for each sealant type.

The following table summarizes the various types of materials that were observed, and the number of samples that were collected from each material type.

Sealant Material	Location	Number of Locations	Number of Samples Collected (5% Minimum)
Window silicone	Window	1	1

As indicated, one sample was collected from the work zone that is believed to provide a representative evaluation of the potentially PCB-containing material observed. The sample was collected using hand tools (e.g. utility knife). Sampling was completed for purposes of:

(1) identifying representative samples, (2) visually inspecting the windows miscellaneous materials, and (3) obtaining representative samples for laboratory analyses. The sample was analyzed for PCBs by EPA Method 8082 (using the soxhlet extraction method).

PCBs were not detected in the sample (S-1) collected from a silicone window sealant in the first floor bedroom. The laboratory analytical testing data is provided in Appendix D.

3.5 - Mold Inspection

Triton completed a visual mold inspection of the work area on April 14, 2014. Mold was observed on the brown paper backing of the insulation within the work area. A photograph of the apparent mold is provided in Appendix B. Although access to the attic was not available to complete a visual inspection, it is likely that mold is present on other surfaces within attic spaces.

4.0 - CONTRACTOR BID ITEMS

Triton has completed building materials surveys within the proposed work area described by Merritt that have resulted in the identification of mold on the brown paper backing of the insulation within the work area. Although access to the attic was not available to complete a visual inspection, it is likely that mold is present on other surfaces within attic spaces. The contractor will be required to abate the mold in accordance with all appropriate regulatory requirements and industry standards and guidelines as described below.

4.1 - Mold Abatement

Mold was observed on brown paper backing of the insulation and may be present in areas that could not be observed during the inspection (i.e. attic). To protect occupant and worker health, the mold within the work zone must be abated. Any porous materials containing visible mold that are encountered during the renovation should be removed in accordance local, state, and federal regulations including, but not limited to, with the guidelines put forward in the most recent version of the *Institute for Inspection, Cleaning, and Restoration Certificate (IICRC) Standard and Reference Guide for Mold Remediation* as well as the *Connecticut Guidelines for Mold Abatement Contractors*. The abatement contractor must provide credentials/adequate qualification documentation and a work plan for abatement work with its bid for review by Merritt and Triton. Clearance testing requirements will be determined by Merritt, the homeowner, and the State of Connecticut.

The above items are intended to provide professional contractors with the basis with which to provide a bid for abatement services and are not intended to serve as a formal bid specification or design documents.

5.0 - CONCLUSIONS AND RECOMMENDATIONS

Based on the results of NEPA evaluation and specific on-site surveys, it has been determined that this project cannot convert to Exempt per § 58.34(a)(12) at this time because one or more statutes/authorities require consultation or mitigation, as follows:

1. Mold – Mold was identified on the brown paper backing of the insulation within the work area. To protect occupant and worker health, the mold must be abated. Although access to the attic was not available to complete a visual inspection, it is likely that mold is present on other surfaces within attic spaces. Additional mold impacts surfaces may be encountered during renovation in spaces that were inaccessible or not apparent during the inspection. As such, Triton recommends that a competent person be present during the renovation work who is capable of identifying potential additional suspect materials. General precautions should be taken during the renovation process to avoid the potential spread of mold spores and to mitigate health and safety concerns.

The above items should be completed such that the project can be converted to Exempt status per § 58.34(a)(12).

6.0 - LIMITATIONS

The tasks completed were performed specifically within the work zone that has been specified to Triton by the Merritt project manager (such zone may change as the project develops and re-inspection by Triton will be required). In addition, the scope of work was limited to those items that are part of the NEPA review process. As such, Triton provides no warranty or opinion regarding conditions outside of the work area, or related to additional environmental conditions outside of the NEPA review process.

In some circumstances, Triton has relied upon available resource maps and/or visual observations to evaluate specific statutory items. In these circumstances, actual surveys have not been conducted. For example, a full wetland delineation and elevation survey with respect to the coastal jurisdiction line has not been completed. Rather, Triton has relied upon available inland wetland and tidal wetland maps (and visual observations) to complete this review.

The completion of the NEPA screen process does not constitute completion of an Environmental Assessment (EA) or a Phase I Environmental Site Assessment.

The ACM, LBP, radon, mold, and PCB inspections were completed for accessible materials within the work zone only (as defined in Section 1.1) and involved the use of selective sampling and non-destructive sampling techniques to access visible suspect materials. Although efforts were made to diligently inspect all windows and other building materials, in completing the material survey it should be noted that additional suspect materials or mold may be present behind or beneath building components that were not readily accessible. If suspect, ACM, LBP, and PCB containing materials are encountered during replacement activities, work should be halted until the materials are submitted for laboratory analysis. If mold is identified during replacement activities, it should be abated. As such, Merritt should consider having an environmental professional familiar with the project on site to aid in identifying and sampling potential materials. In most instances, CT DPH does not recommend analytical testing of the air or surfaces to find out how much or what kind of mold is present. As such, Triton's scope of work has focused on a visual and olfactory evaluation. If requested by the homeowner, such testing can be provided both prior to, and following abatement.

In completing the survey, Triton has relied upon information provided by the client and subcontractors (i.e., testing laboratories). Triton provides no warranty regarding the accuracy and completeness of the information provided by subcontractors. A statistical methodology was used during the materials sampling (consistent with the 5% guidance recommended by EPA). Since not all materials were sampled, Triton cannot guarantee that additional materials are not present which contain higher concentrations. Without additional samples of embedded window materials for PCBs, the need for future EPA involvement cannot be confirmed.

All abatement/renovation activities should be conducted in accordance with all applicable local, state, and federal regulations and Occupational Safety and Health Association (OSHA) guidelines.

This report is intended solely to summarize the results of the ACM, PCB, radon, and XRF lead testing, and mold inspection conducted at the site. This report is not intended to serve as a technical specification for abatement and should not be used as such. All abatement activities should be conducted in accordance with applicable local, state, and federal regulations and OSHA guidelines.

This NEPA Report was prepared specifically for Merritt Construction Services, Inc. and the State of Connecticut. No person or other body shall be entitled to rely upon or use information presented in this report without written consent of Merritt Construction Services, Inc., the State of Connecticut, and Triton Environmental, Inc.

7.0 - SIGNATURES OF REPORT AUTHORS

This report has been prepared by Triton Environmental, Inc. The names listed below are the principal authors of this report. Requests for information regarding the content of this report should be directed to those individuals.



David Vasiliou, LEP
Senior Project Manager

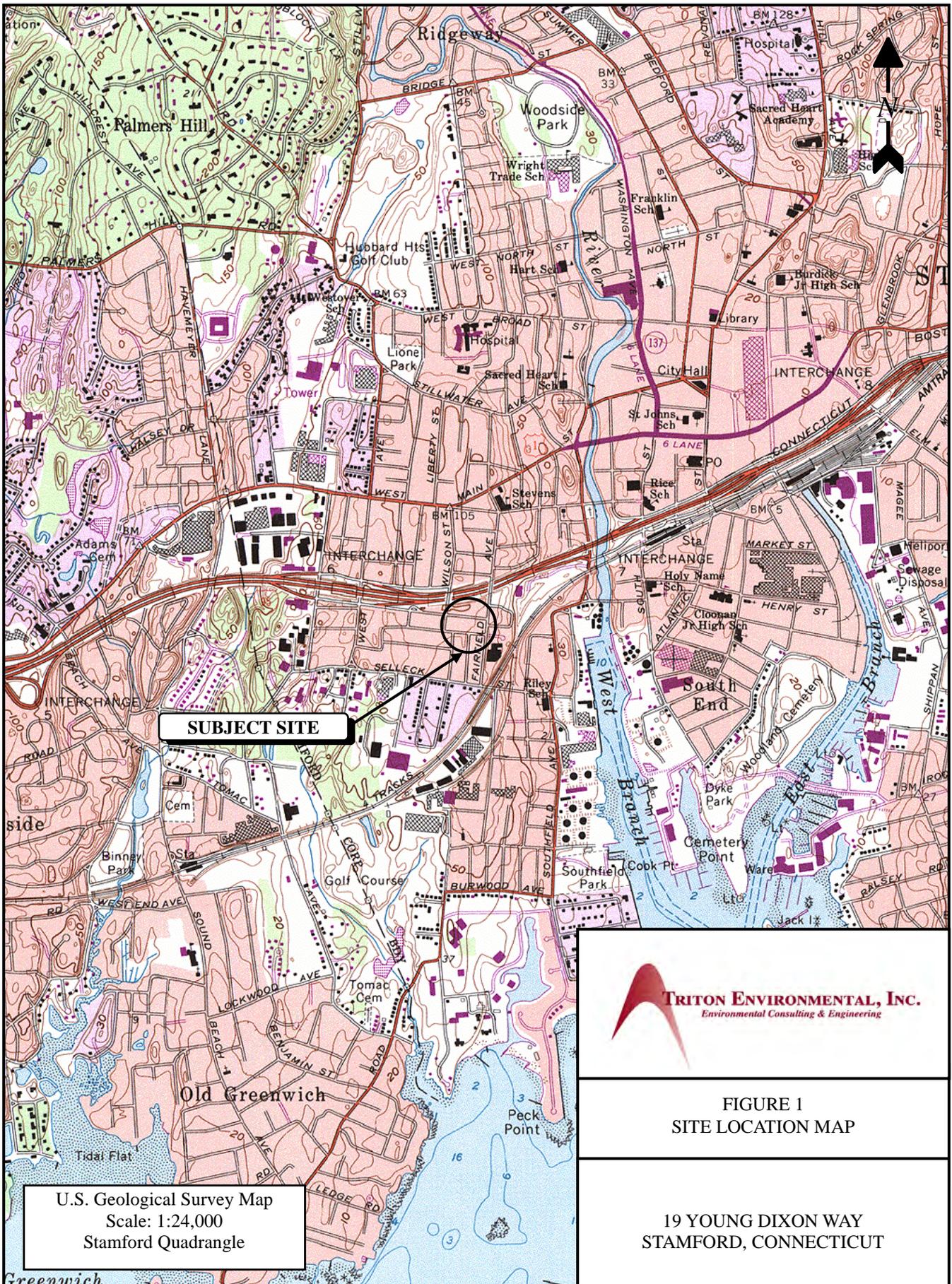


J. Carver Glezen, LEP
Senior Vice President



Christopher E. Marchesi
President

FIGURES



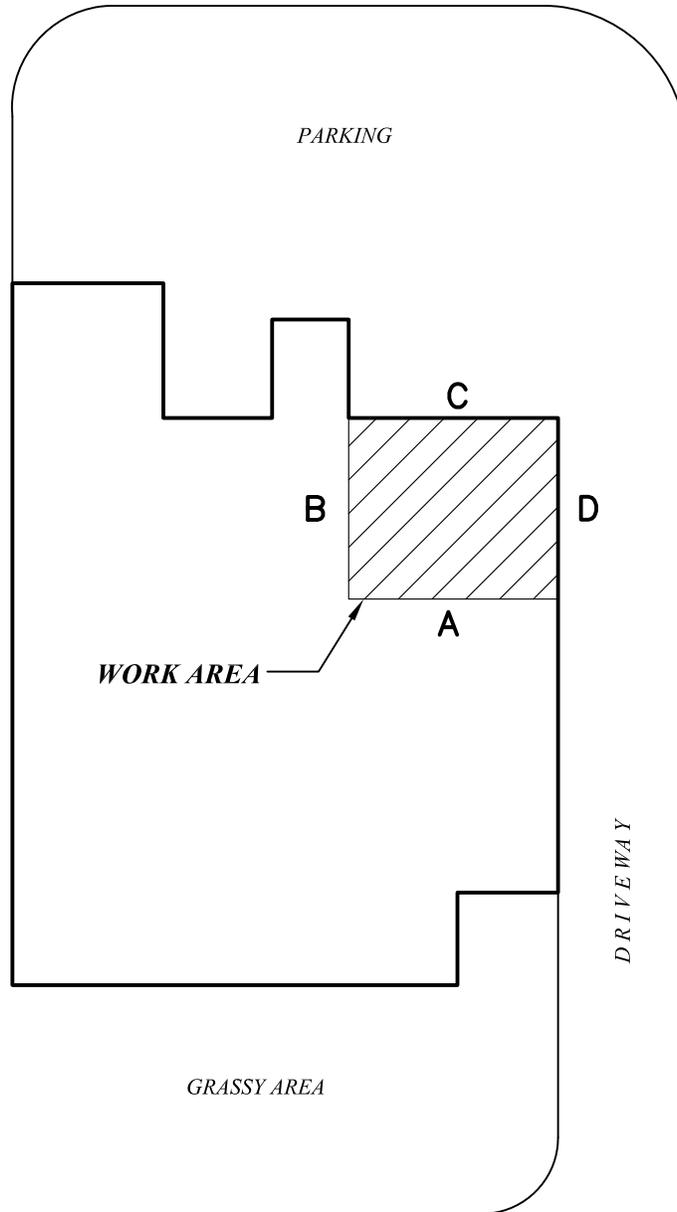
SUBJECT SITE

U.S. Geological Survey Map
 Scale: 1:24,000
 Stamford Quadrangle



FIGURE 1
SITE LOCATION MAP

19 YOUNG DIXON WAY
STAMFORD, CONNECTICUT



YOUNG DIXON WAY

**NOT TO SCALE – SKETCH ONLY
FOR ILLUSTRATIVE PURPOSES**

NOTES:

1. THE LOCATION OF ALL STRUCTURES, EQUIPMENT, DELINEATIONS AND OTHER FEATURES PRESENTED ON THIS DRAWING SHOULD BE CONSIDERED APPROXIMATE. THIS DRAWING SHOULD ONLY BE USED FOR GENERAL PRESENTATION PURPOSES AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES. TRITON MAKES NO WARRANTY AS TO THE CORRECTNESS OR THE COMPLETENESS OF THE INFORMATION CONTAINED IN THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY FROM RELIANCE THEREON.



TRITON ENVIRONMENTAL, INC.
Environmental Consulting & Engineering

385 Church Street, Suite 201 • Guilford, Connecticut 06437 • 203.458.7200

FIGURE 2

SITE DIAGRAM

APPLICANT # 1390
19 YOUNG DIXON WAY
STAMFORD, CONNECTICUT

DRAWN BY: RGM

APPROVED BY: BNS

DATE: 5/7/14

SCALE: N.T.S.

FILE No.: 104318-19YOUNG

Appendix A
Public Resource Materials

1390EE

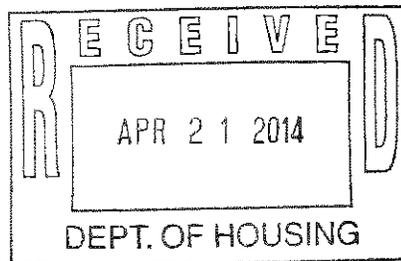


Department of Economic and
Community Development

Connecticut
still revolutionary

April 14, 2014

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



RE: Applicant #1390, 19 Young Dixon Way, Stamford, 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.

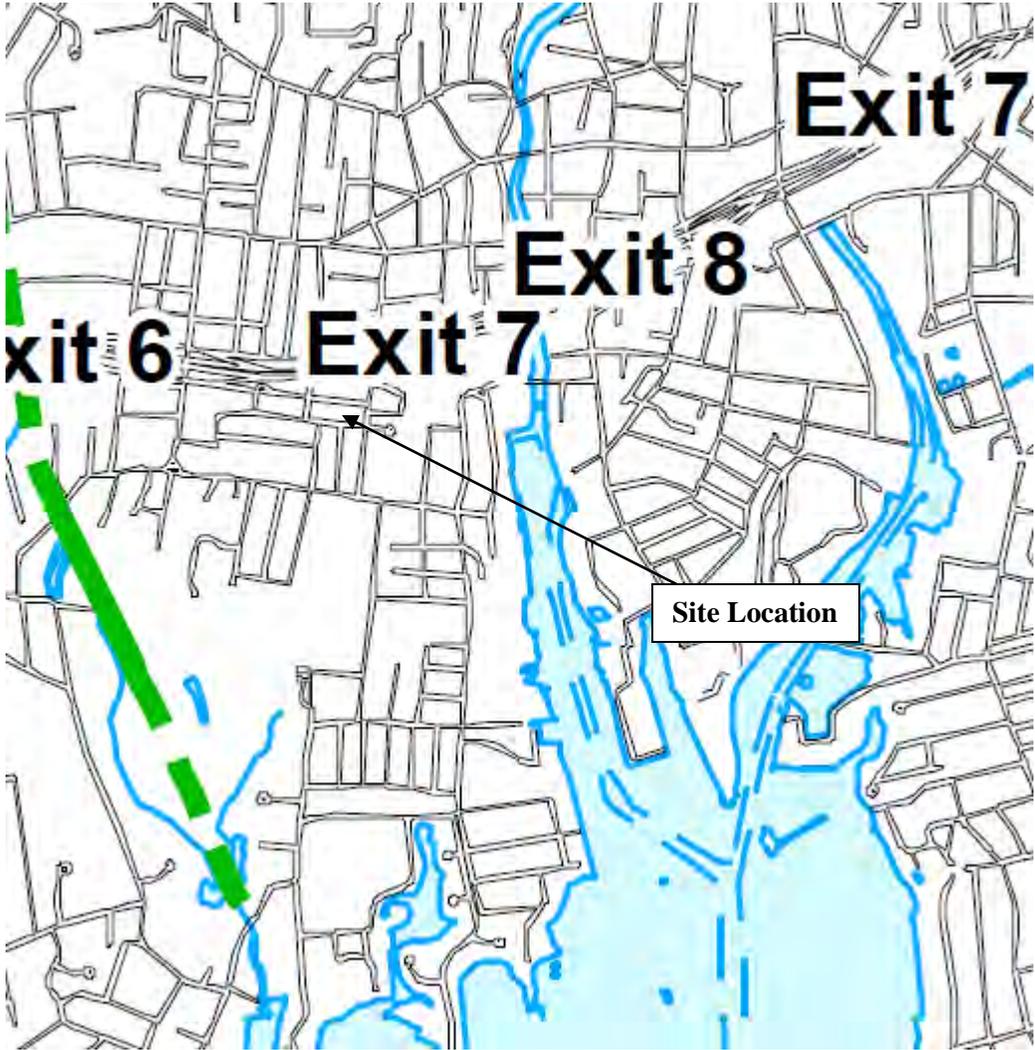
For further information, please contact Julie Carmelich at (860) 256-2762.

Sincerely:

Daniel T. Forrest
State Historic Preservation Officer

**Aquifer Protection Area Map
(December 16, 2013)**

19 Young Dixon Way
Stamford, CT



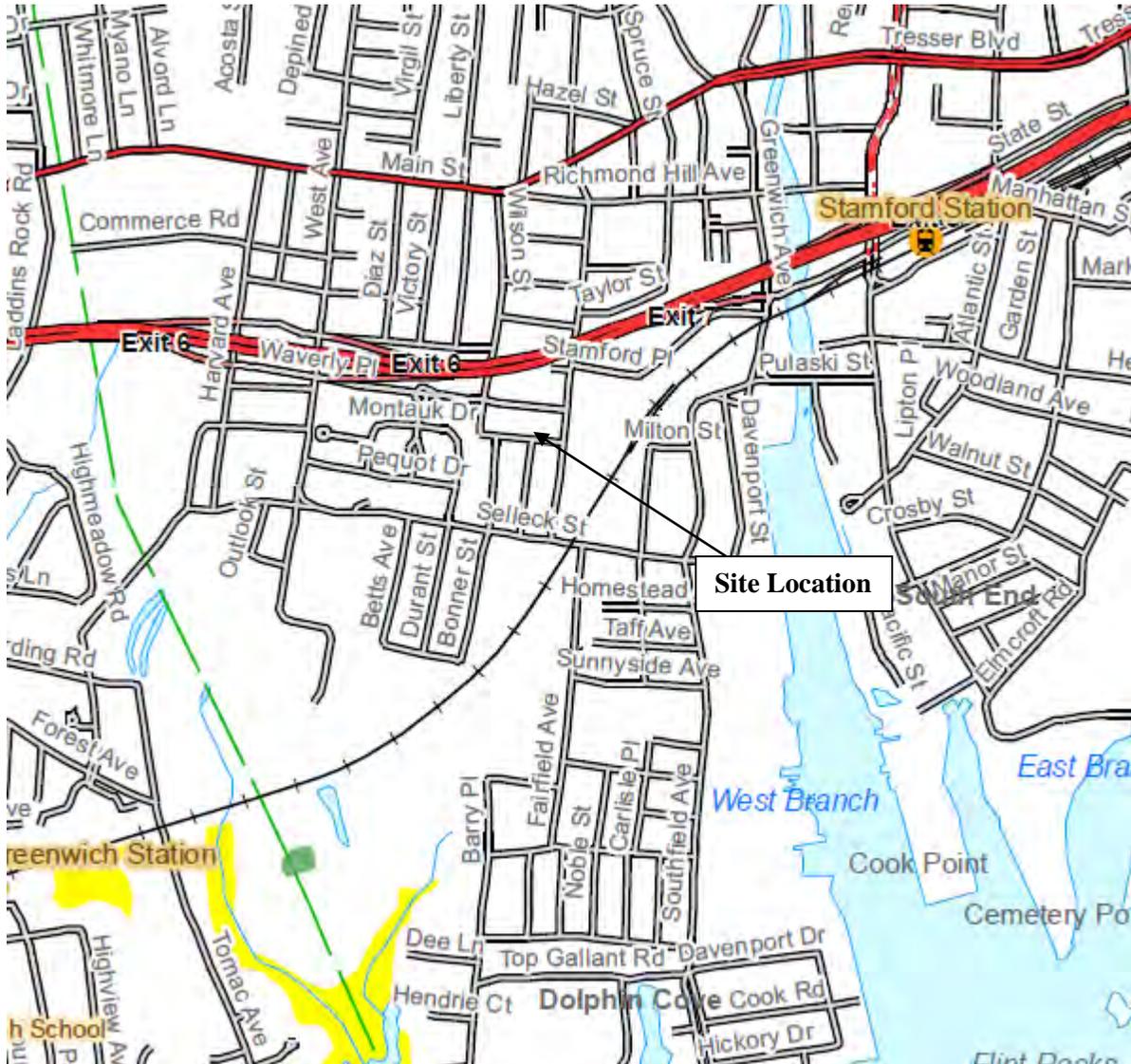
**Coastal Boundary Map
(January 2013)**

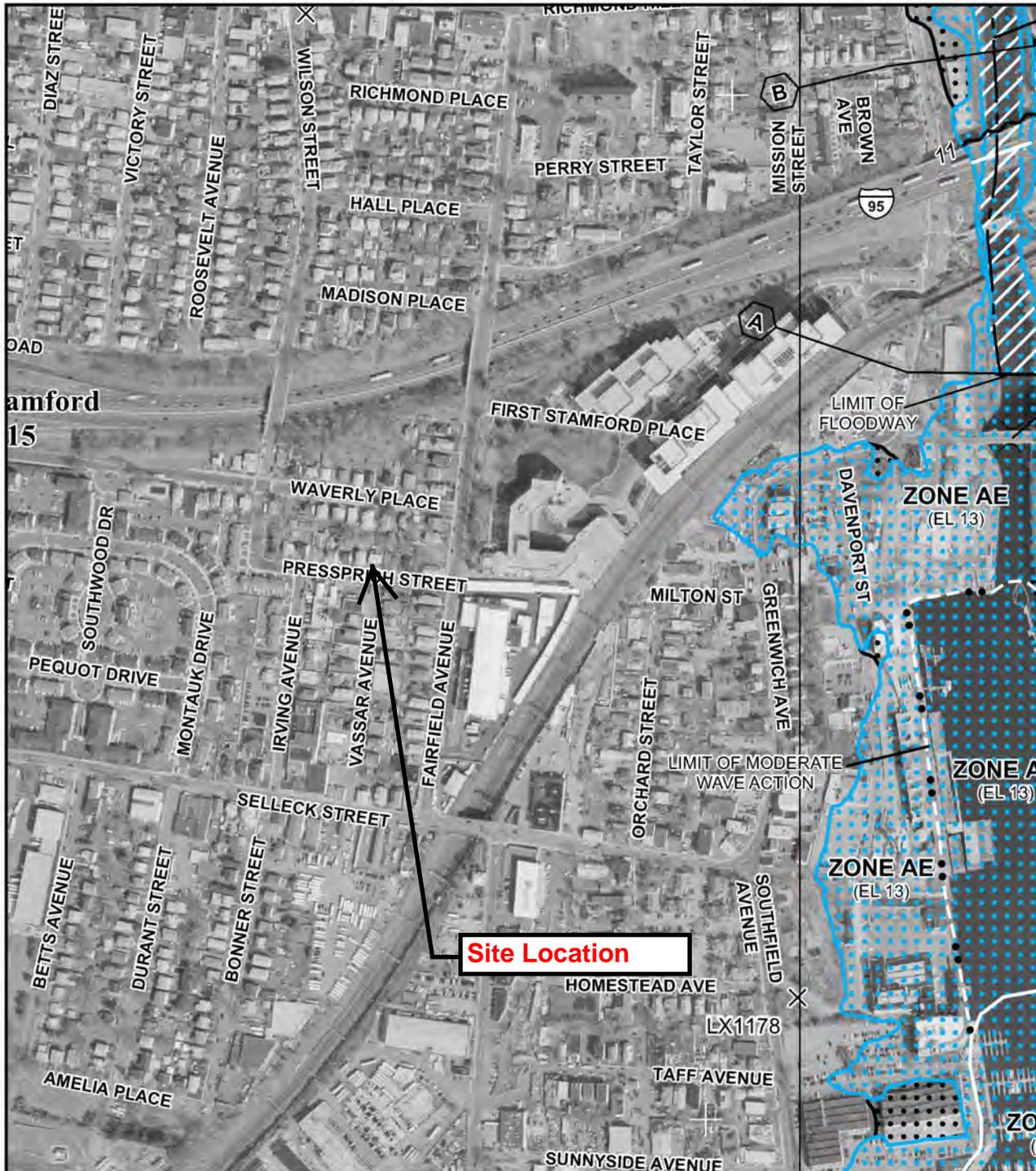
19 Young Dixon Way
Stamford, CT



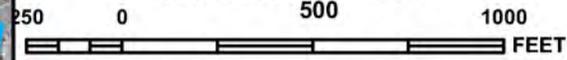
**Farmland Soil Map
(April 2011)**

19 Young Dixon Way
Stamford, CT





MAP SCALE 1" = 500'



PANEL 0516G

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

PANEL 516 OF 626
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GREENWICH, TOWN OF	090008	0516	G
STAMFORD, CITY OF	090015	0516	G

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
09001C0516G
MAP REVISED
JULY 8, 2013

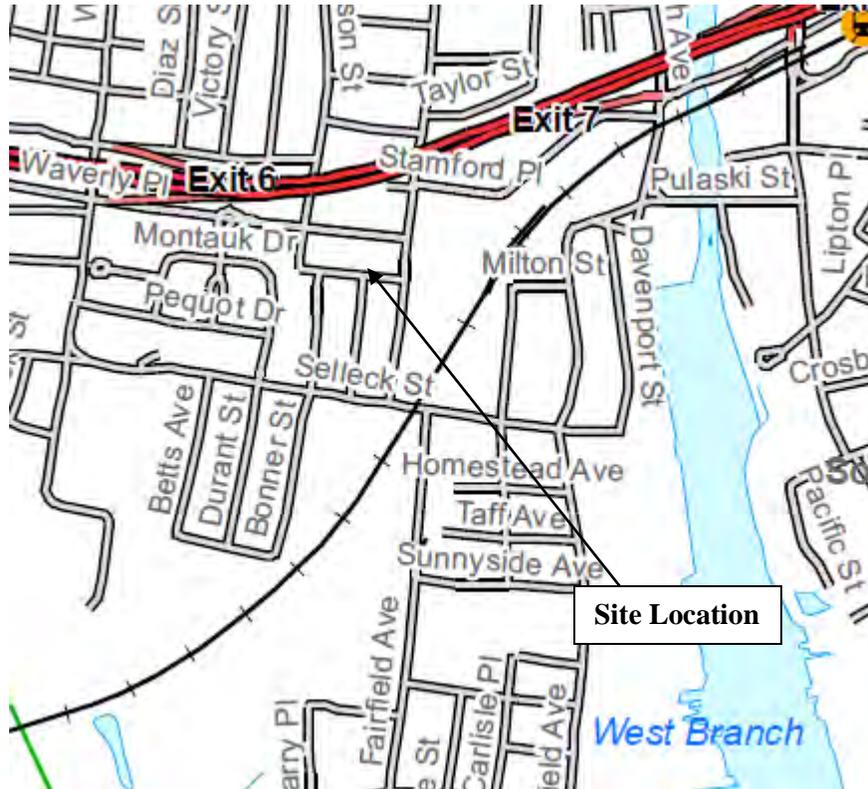
Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

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

**Inland Wetland Soil Map
(October 2009)**

19 Young Dixon Way
Stamford, CT



**Inland Wetland Soil Map – Stamford
(October 2009)**

LEGEND



Poorly Drained and Very Poorly Drained soils - Poorly drained soils occur where the water table is at or just below the ground surface, usually from late fall to early spring. The land where poorly drained soils occur is nearly level or gently sloping. Many of our red maple swamps are on those soils. Very poorly drained soils generally occur on level land or in depressions. In these areas, the water table lies at or above the surface during most of the growing season. Most of our marshes and bogs are on these soils.

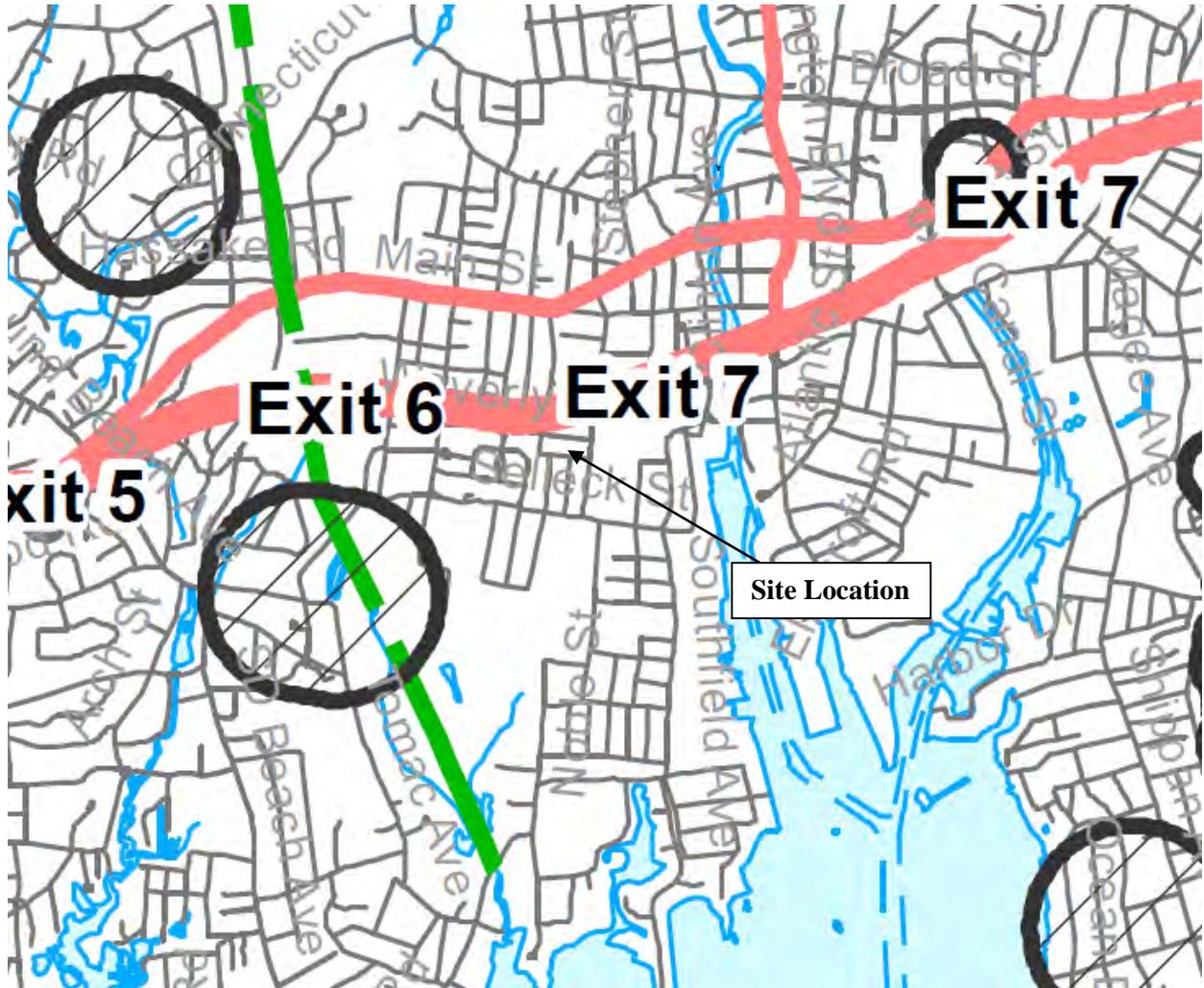


Alluvial and Floodplain soils occur along watercourses occupying nearly all level areas subject to periodic flooding. These soils are formed when material is deposited by flowing water. Such material can be composed of clay, silt, sand or gravel. Alluvial and floodplain soils range from excessively drained to very poorly drained.

-  Open Water
-  River, Brook, Stream
-  Town Boundary
-  State Boundary
-  County Boundary
-  Interstate Highway
-  US Route Highway
-  State Route Highway
-  Highway Ramp
-  Local Road
-  Railroad

Natural Diversity Database Map
(December 2013)

19 Young Dixon Way
Stamford, CT



Appendix B

Photographs of Work Area and Mold Inspection Photographs



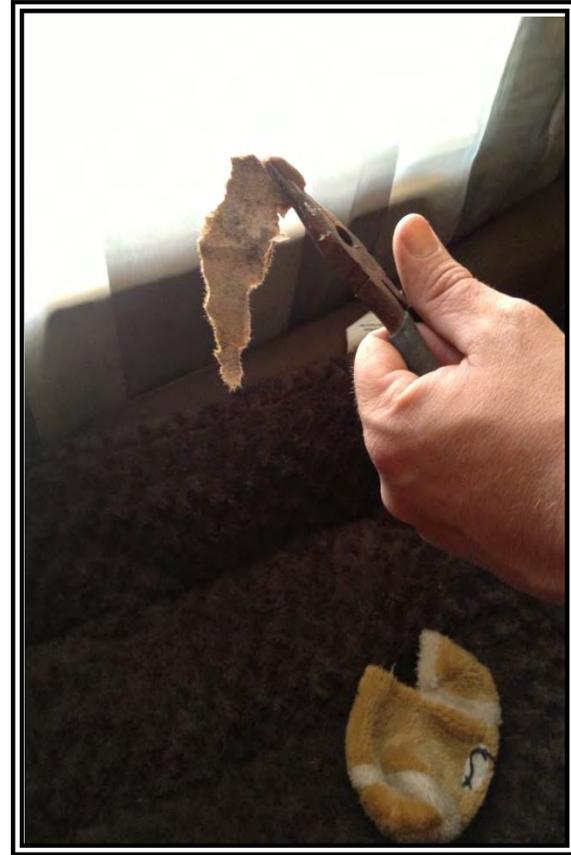
Photograph 1
Work area



Photograph 2
Work area



Water staining in first floor bedroom ceiling



Black mold on attic insulation paper

Appendix C

Rosters of Building Materials Surveyed

- XRF Raw Data for Painted Surfaces
- Roster of Suspect Asbestos Containing Materials

XRF Raw Data
 19 Young Dixon Way - Stamford, CT
 #1390

Reading No	Time	Type	Duration	Units	Component	Substrate	Condition	Color	Floor	Room	Results	Depth Index	Action Level	PbC	PbC Error	PbL	PbL Error	PbK	PbK Error
258	4/14/2014 11:22	PAINT	1.17	mg / cm ^2	CEILING	Sheetrock	CRACKED	WHITE	FIRST	Bedroom	Negative	1	1	< LOD	0.03	< LOD	0.03	< LOD	2.47
259	4/14/2014 11:22	PAINT	1.77	mg / cm ^2	CEILING	Sheetrock	CRACKED	WHITE	FIRST	Bedroom	Negative	1	1	< LOD	0.03	< LOD	0.03	< LOD	1.97
260	4/14/2014 11:23	PAINT	2.37	mg / cm ^2	CEILING	Sheetrock	CRACKED	WHITE	FIRST	Bedroom	Negative	1	1	< LOD	0.03	< LOD	0.03	< LOD	1.51
Notes:																			

Roster of Suspect Asbestos Containing Materials – April 2014
Site # 1390 – 19 Young Dixon Way, Stamford, CT

Sample ID	HA	Material	Quantity	Condition	Location
13901 - 13903	1	Upper Roof Shingles	2000 SF	Poor	Roof
13904 - 13906	2	Lower Roof Shingles	2000 SF	Poor	Roof
13907	3	Black Roof Paper	2000 SF	Intact	Roof
13908 - Sheetrock	4	Sheetrock Ceiling	300 SF	Damaged	1 st Floor Bedroom Ceiling
13908 – Joint Compound	5	Joint Compound on Sheetrock Ceiling	300 SF	Damaged	1st Floor Bedroom Ceiling
13909	6	Paper Backing	300 SF	Damaged	1st Floor Bedroom Ceiling
Notes: SF = Square Feet HA = Homogeneous Area					

Appendix D
Laboratory Analytical Reports



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: 041410098
 CustomerID: TRIT52
 CustomerPO:
 ProjectID:

Attn: **Brian Sirowich**
Triton Environmental, Inc.
385 Church Street
Suite 201
Guilford, CT 06437

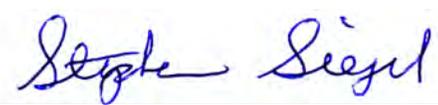
Phone: (203) 458-7200
 Fax: (203) 458-7201
 Received: 04/15/14 10:15 AM
 Analysis Date: 4/22/2014
 Collected: 4/14/2014

Project: 1340 Young Dixon Way, Stamford, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
13901 041410098-0001	- Gray Rough Shingle Upper	Gray/Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
HA: 1					
13902 041410098-0002	- Gray Rough Shingle Upper	Gray/Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
HA: 1					
13903 041410098-0003	- Gray Rough Shingle Upper	Gray/Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
HA: 1					
13904 041410098-0004	- Gray Rough Shingle Lower	Gray/Tan/Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
HA: 2					
13905 041410098-0005	- Gray Rough Shingle Lower	Gray/Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
HA: 2					
13906 041410098-0006	- Gray Rough Shingle Lower	Gray/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
HA: 2					
13907 041410098-0007	- Black Roof Paper	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
HA: 3					

Analyst(s)
 Adam Gart (2)
 Jennifer Mattero (8)


 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 04/22/2014 11:52:21



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

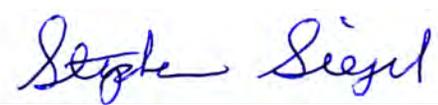
EMSL Order: 041410098
CustomerID: TRIT52
CustomerPO:
ProjectID:

Attn: **Brian Sirowich**
Triton Environmental, Inc.
385 Church Street
Suite 201
Guilford, CT 06437
Phone: (203) 458-7200
Fax: (203) 458-7201
Received: 04/15/14 10:15 AM
Analysis Date: 4/22/2014
Collected: 4/14/2014
Project: 1340 Young Dixon Way, Stamford, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
13908-Sheetrock Ceiling <i>041410098-0008</i>		Brown/White	15% Cellulose	80% Non-fibrous (other)	None Detected
		Fibrous Homogeneous	5% Glass		
			HA: 4		
13908-Joint Compound <i>041410098-0008A</i>		White		100% Non-fibrous (other)	None Detected
		Non-Fibrous Homogeneous			
			HA: 4		
13909 <i>041410098-0009</i>	- Brown Paper Backing	Brown	95% Cellulose	5% Non-fibrous (other)	None Detected
		Fibrous Homogeneous			
			HA: 5		

Analyst(s)
Adam Gart (2)
Jennifer Mattero (8)


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 04/22/2014 11:52:21



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

04/4/0098

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Company: Triton Environmental, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same If Bill to is Different note instructions in Comments**	
Street: 385 Church Street Suite 201		Third Party Billing requires written authorization from third party	
City: Guilford	State/Province: CT	Zip/Postal Code: 06437	Country: United States
Report To (Name): Brian Sirowich		Telephone #: 203-458-7200	
Email Address: bsirowich@tritonenvironmental.com		Fax #: 203-458-7201	Purchase Order:
Project Name/Number:		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CT		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

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

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

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>
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Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Brian Sirowich Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
13901 - 13903	Gray Rough Shingle Upper.	1	4/14
13904 - 13906	Gray Rough Shingle Lower.	2	RECEIVED EMSL CINNAMINSON, N.J. APR 15 11:56 AM '04
13907	Black Roof Paper.	3	
13908	Sheetrock Ceiling	4	
13909	Brown Paper Backing	5	

Client Sample # (s): 1390(1) - 1390(9) Total # of Samples: 9 minimum OK

Relinquished (Client): Brian Sirowich Date: 4/14/04 Time: 5:00

Received (Lab): CC Date: 4/15/04 Time: 10:15 am

Comments/Special Instructions: 1390 Young Dixon Way Stamford, CT EMSL



EMSL Analytical, Inc.
 200 Route 130 North
 Cinnaminson, NJ 08077
 Tel: 800-220-3675 • Fax: 856-786-0327
 www.radontestinglab.com

DOM: 3/17/14
 EXP: 3/17/15 M#1

RECEIVED
 EMSL
 CINNAMINSON, N.J.

TRIT52
 3-Day

381401872

2014 APR 21 P 4:43

Radon In Air Data Sheet

Send Written Report To:

Name Dave Vas. lvn
 Address 385 Chock St
 City Gulfport State CT Zip 06437
 Phone 203 458 7200 Fax 203 458 7201
 Email dvasilov@radonenvironmental.com
 Technician Name Chris Kul
 Technician Certification # _____
 Technician Signature _____

1ST RED VIAL # 164795

LOCATION

- Basement First Floor Bedroom Den
- Living Room Other _____
- Location in Room Chair

2ND RED VIAL # 164752

(If Purchased)

The device has been scientifically tested to provide reliable indoor radon measurements when exposed to temperatures between 60 and 80 degrees F; temperatures outside this range will invalidate the test results.

Kit # 97827 (Outside of Box)

The test device must remain open for 48 to 96 hours • Return this section with the test device to the laboratory

Property Tested:

Name 1390
 Address 19 Young Dixon Way
 City Stamford
 Municipality Stamford County Fairfield
 State CT Zip 06902

Check here if this is a Post Mitigation test.

Technician Name Chris Kul
 Technician Certification # _____
 Technician Signature [Signature]

INDOOR CONDITIONS

Temperature 74 °F Humidity 30 %

EXPOSURE PERIOD

Beginning Date: 4 / 14 / 14

Time: 11:30 AM / PM (Circle)

Ending Date: 4 / 17 / 14

Time: 3:00 AM / PM (Circle)

Mail

Tear Here

80 Lupes Drive
Stratford, CT 06615



Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. David Vasiliou
Triton Environmental
385 Church St.
Guilford, CT 06437

Analytical Report

CET# 4040342

Report Date: April 21, 2014
Project: 104318
Project Number: 104318

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate.: M-CT903
Rhode Island Certification: 199



New York Certification: 11982
Florida Laboratory Certification: E871064

CET #:4040342
 Project: 104318
 Project Number: 104318

SAMPLE SUMMARY

The sample(s) were received at 21.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
S-1	4040342-01	Solid	4/14/2014	04/15/2014

Client Sample ID S-1

Lab ID: 4040342-01

PCBs by Soxhlet
Method: EPA 8082A

Analyst: SJ
Matrix: Solid

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1221	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1232	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1242	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1248	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1254	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1260	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1268	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	
PCB-1262	ND	1.0	5	EPA 3540C	B4D1839	04/18/2014	04/21/2014 12:14	

<i>Surrogate: TCMX</i>	<i>81.8 %</i>	<i>50 - 150</i>		B4D1839	04/18/2014	<i>04/21/2014 12:14</i>
<i>Surrogate: DCB</i>	<i>92.7 %</i>	<i>50 - 150</i>		B4D1839	04/18/2014	<i>04/21/2014 12:14</i>

CET #:4040342

Project: 104318

Project Number: 104318

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta
Laboratory Director

Report Comments:

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

Sample Result Flags:

E- The result is estimated, above the calibration range.

H- The surrogate recovery is above the control limits.

L- The surrogate recovery is below the control limits.

B- The compound was detected in the laboratory blank.

P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.

D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.

+ - The Surrogate was diluted out.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

