Facility Support Services, LLC

Environmental & Safety Consulting Engineers

Connecticut Department of Housing
Community Development Block Grant – Disaster Recovery
Owner Occupied Recovery and Rehabilitation Program

Hazardous Materials
Inspection Report

166 Woodward Avenue
Norwalk, Connecticut

PREPARED FOR:

Martinez Couch & Associates, LLC
1084 Cromwell Ave. Suite A-2
Rocky Hill, CT 06067

PREPARED BY:

Facility Support Services, LLC
2685 State Street
Hamden, CT 06517
Phone (203) 288-1281

October 13, 2014

FSS #22214-5004

SIGNATURES OF REPORT AUTHORS

The employees of Facility Support Services, LLC whose names appear below prepared this report. Requests for information on the content of this document should be directed to these individuals.

Kevin S. Bogue, LEP, CHMM
Project Manager
CTDPH Asbestos Inspector #000157

2685 State Street • Hamden, Connecticut 06517
Ph: 203-288-1281 • Fax: 203-248-4409
Website: www.fssteam.com

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ATTACHMENTS

I. Introduction

Facility Support Services, LLC (FSS) was contracted by Martinez, Couch & Associates, LLC (MCA) to perform a limited scope hazardous materials survey of 166 Woodward Avenue in Norwalk, Connecticut (the "Site"). The purpose of this inspection was to identify the presence of asbestos, PCBs, and lead paint and mold in certain building materials proposed for removal/demolition that qualify for the repair/replacement of items damaged by the October 2012 Tropical Storm Sandy under the Connecticut Department of Housing (DOH), Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program. In addition, FSS performed radon testing as required for DOH funded projects.

FSS utilized best industry practices to identify all suspect materials associated with the structures. Any material that has not been identified during this inspection or discovered during renovation/demolition activities must be presumed to be hazardous until such time that samples of the material can be collected and analyzed.

II. Mold

FSS conducted sampling for mold on September 29, 2014. Testing for total spores in air was conducted for the following areas of 166 Woodward Avenue in Norwalk, Connecticut to identify concerns with indoor air quality related to mold and fungi:

- Basement (finished portion)
- Basement (unfinished portion)
- Outside of House

The outside ambient air sample provided a background reference sample (collected from a location in the front yard). Mr. Kevin Bogue of FSS conducted the spore sampling utilizing an air sampling pump and sample media. Air was collected at a rate of 15.0 liters of air per minute. The samples were collected on Air-O-Cell type sampling cartridges located in line with the sampling pump, which ran for 10 minutes at each sampling location.

The spore samples were analyzed by EMSL Analytical of Wallingford, Connecticut for the identification and enumeration of spores (EMSL Method M001). EMSL is a State of Connecticut, Department of Public Health certified laboratory (Accreditation Number 165118). Analytical reports for mold are included in Appendix A.

The analysis for total spore counts is a direct microscopic examination and does not include culturing or growing fungi. Therefore, the results include both viable and non-viable spores. Spore trap results are reported in spores per cubic meter of air.

Table 1
Summary of Laboratory Analysis of Spore Types
166 Woodward Avenue, Norwalk, Connecticut

Sample Number & Location	Raw Count	Total Fungi (Count/m^3)	Spore Types Present
20140929_5004_MS1 Basement (finished portion)	1,157	24,340	Alternaria, Ascospores, Aspergillus/Penicillium, Basidiospores, Chaetomium, Cladosporium, Ganoderma, Myxomycetes, Rust, Ulocladium, Cercospora
20140929_5004_MS2 Basement (unfinished portion)	1,047	22,100	Ascospores, Aspergillus/Penicillium, Basidiospores, Bipolaris, Chaetomium, Cladosporium, Ganoderma, Myxomycetes, Rust, Ulocladium, Bispora
20140929_5004_MS3 Outside	2,916	61,620	Alternaria, Ascospores, Aspergillus/Penicillium, Basidiospores, Cladosporium, Curvularia, Epiccocum, Ganoderma, Myxomycetes, Pithomyces, Rust, Zygomycetes, Oidium

The suite of mold spores in the outside sample versus the interior samples are similar. The primary mold species were Aspergillus/Pencillium for the basement samples; Cladosporium for the outside sample.

Aspergillus/Penicillium - Can be associated with hay fever and asthma, and can grow on a wide range of substrates indoors, and are prevalent in water-damaged buildings and where foods are stored.

Cladosporium – Cladosporiums natural habitat is dead plant matter, soil and woody plants. In indoor environments, this spore type is found on fiberglass duct liners, paints, and textiles, especially in water damaged buildings. This spore type is associated with hay fever and asthma.

In Connecticut, there are currently no regulatory standards directly governing mold/fungal spore concentrations. Although no standards for mold exist, some information regarding levels have been published, including the following:

Baxter, et al considers mold contamination present in a building when the total mold spore concentration per cubic meter is above 10,000. However in special cases, even low quantitative levels of certain particles or particle types (such as *Penicillium/Aspergillus* spore chains in an un-treated building) may be diagnostic and may indicate a hidden mold reservoir that merits further investigation.

FSS's investigation found total spore concentrations inside the 166 Woodward Avenue residence of up to 24,340/m^3, which is above the 10,000/m^3 level noted above.

The American Conference of Government Industrial Hygienists (ACGIH) stated that indoor mold levels are generally less than 1/3 the outdoor level and that when indoor mold is at more than this level remedial action should be taken to find the source of the elevated counts and to clean it up. However, this is a general rule and may be inaccurate and unreliable method for screening buildings for mold. FSS's investigation found a total spore concentration in the interior samples at levels approximately 1/2 to 1/3 of the outside sample.

III. Asbestos

FSS conducted a limited scope asbestos inspection and bulk sampling on September 29 2014 of suspect building materials that are proposed for renovations. The inspection was conducted by Kevin Bogue, a State of Connecticut licensed Asbestos Inspector. Mr. Bogue's Connecticut Asbestos Inspectors/Management Planner license is provided in Appendix B.

The following suspect materials were indentified during the inspection:

- Chimney Grout (Basement)
- Spray Foam Insulation (Basement)
- Interior Window Glazing (Basement Interior)
- Window Cement (Basement)
- Foundation Skim Coat
- Fiberglass Tar Paper
- Window Glazing (Basement Exterior)

This asbestos inspection was performed in accordance with the EPA, NESHAP regulations for building renovations and demolition, 40 CFR Part 61, Amended 11/20/1990. The bulk asbestos samples collected during this inspection were delivered under full chain of custody and analyzed by EMSL Analytical, Inc., via EPA/600/R-93/116. This is currently the approved EPA test method, which uses Polarized Light Microscopy (PLM). EMSL Analytical, Inc. is an accredited asbestos laboratory (NVLAP # 200700-0) and is a State of Connecticut approved public health laboratory for asbestos analysis. Copies of the laboratory analytical results can be found in Attachment C of this report.

Laboratory results have revealed that the asbestos content of the tested materials are below the 1% required to confirm a material as asbestos containing.

IV. PCBs

Following an inspection of building materials proposed for renovations, two suspected PCB-containing materials were identified.

- Interior Window Glazing (Basement Interior)
- Window Glazing (Basement Exterior)

FSS collected a sample of these materials for laboratory analysis for PCBs by EPA Method 8082A with Soxhlet Extraction. Complete Environmental Testing of Stratford, Connecticut was utilized to conduct the analysis.

Laboratory data indicates that the PCB content of the sampled materials was below detectable levels (<0.80 ppm) and below the 1 ppm action level for PCBs. No

further investigations or special disposal requirements (for PCBs) are required for these materials. Laboratory analytical data for PCBs are provided in Appendix D.

V. Lead

The subject residential structure was built prior to 1978 (in 1923) and therefore the likelihood that lead painted surfaces are present is increased. As a residential structure built prior to 1978 the removal of lead painted materials where a child under 6 is housed, or may visit, would trigger the EPA Renovation, Repair and Painting (RRP) rule. Furthermore, adherence to the requirements of The Lead-Safe Housing Rule (US Department of Housing and Urban development, HUD) are stipulated by the Connecticut Department of Housing (DOH) as part of the Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program.

A building wide XRF inspection was conducted by Maureen Monaco of Gilberto Lead Inspections, LLC (Gilbertco) utilizing a Scitec Map4 Portable X-Ray Fluoroscope Spectrum Analyzer with a Cobalt 57 source. Appendix E contains the Lead Inspection Report. The findings of the investigation determined several areas tested positive for lead based paint (>1.0 mg/cm^2):

- Kitchen
  - Door to Basement
  - Window Apron
- Basement
  - Door
  - Door Casing
  - Baseboard
- Front Bedroom
  - Baseboard
  - Window Trim
  - Window Sill
  - Window Apron
- Rear Bedroom
  - Wall
  - Ceiling
  - Baseboard
  - Window Trim
  - Window Sill
  - Window Apron
  - Floor-parquet
- Hall Outside Bath

    - Floor-parquet
- Front Porch
    - Door Casing
    - Clapboard
    - Wall
    - Ceiling
    - Window Sill
    - Window Trim
    - Window Apron
    - Door Jamb
    - Window Sash
    - Floor
- Exterior
    - Threshold
    - Window Sill
    - Stationary Window
    - Foundation Wall
    - Basement Window
    - Clapboard

Non-Intact Materials

A copy of the Gilbertco Lead Inspection Report is provided in Appendix E. Following the HUD Lead-Safe Housing Guidelines, non-intact materials should undergo interim measures to abate the hazard. Non-intact lead containing materials have been identified as the following:

- Exterior
    - Window Sill
    - Stationary Window
    - Foundation Wall
    - Basement Window
    - Clapboard

Demolition Materials

When toxic wastes are land disposed, contaminated liquid may leach from the waste and pollute ground water. Toxicity is defined through a laboratory procedure called the Toxicity Characteristic Leaching Procedure (TCLP) (Method 1311). The TCLP helps identify wastes likely to leach concentrations of contaminants that may be harmful to

human health or the environment. There are no areas that tested positive for lead (regardless of intactness) that are proposed for demolition.

VI. Conclusions & Recommendations

When the structure is renovated, all removed debris should be sent to an appropriate landfill for final disposal following all appropriate regulations. Any work involving lead-containing paints should be conducted under the EPA's RRP Renovation, Repair and Painting Rule. Any material discovered during renovation activities which have not been included in this survey must be presumed to contain asbestos, lead and PCBs until such time that the material can be evaluated and sampled.

Mold - FSS's investigation found total spore concentrations inside the 166 Woodward Avenue residence of up to 24,340/m^3. Although spore counts were elevated above this level in the outside (background) sample, the preponderance of spores in the interior samples indicate that mold remediation should be conducted.

Asbestos – No asbestos containing materials (>1% asbestos) were identified in materials proposed for renovation or demolition.

PCBs - Two suspected PCB-containing materials were identified in proposed renovation materials and sampled. Laboratory data indicates that the PCB content of the sampled materials was below detectable levels and below the 1 ppm action level for PCBs. No further investigations or special disposal requirements (for PCBs) are required for these materials.

Lead - Following the HUD Lead-Safe Housing Guidelines, the non-intact areas should undergo interim measures to abate the hazard. The following areas were non-intact as well as testing positive:

- Exterior
  - Window Sill
  - Stationary Window
  - Foundation Wall
  - Basement Window
  - Clapboard

There are no areas that tested positive for lead (regardless of intactness) that are proposed for demolition. No further consideration for lead containing demolition debris is required for this project.

ATTACHMENTS

ATTACHMENT A

MOLD ANALYTICAL DATA

EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com / wallingfordlab@emsl.com

Order ID:	241403858
Customer ID:	FSS93
Customer PO:	
Project ID:	

Attn: Kevin Bogue
Facility Support Services, LLC
2685 State Street
Hamden, CT 06517

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Collected:	09/29/2014
Received:	09/29/2014
Analyzed:	10/06/2014

Proj: 22214-5004 (WOODWARD)

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	241403858-0001			241403858-0002			241403858-0003		
Client Sample ID:	20140929_5004_MS1			20140929_5004_MS2			20140929_5004_MS3		
Volume (L):	150			150			150		
Sample Location:	Finished basement			Unfinished basement			Outside		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	1	20	0.1	-	-	-	15	320	0.5
Ascospores	57	1200	4.9	31	650	2.9	962	20300	32.9
Aspergillus/Penicillium	982	20700	85	819	17300	78.3	12	250	0.4
Basidiospores	54	1100	4.5	24	510	2.3	728	15400	25
Bipolaris++	-	-	-	1	20	0.1	-	-	-
Chaetomium	2	40	0.2	1	20	0.1	-	-	-
Cladosporium	16	340	1.4	130	2740	12.4	1050	22200	36
Curvularia	-	-	-	-	-	-	23	490	0.8
Epicoccum	-	-	-	-	-	-	4	80	0.1
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	18	380	1.6	10	210	1	36	760	1.2
Myxomycetes++	19	400	1.6	13	270	1.2	43	910	1.5
Pithomyces	-	-	-	-	-	-	28	590	1
Rust	3	60	0.2	3	60	0.3	8	200	0.3
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	1	20	0.1	1	20	0.1	-	-	-
Zygomycetes	-	-	-	-	-	-	1	20	0
Bispora	-	-	-	14	300	1.4	-	-	-
Cercospora	4	80	0.3	-	-	-	-	-	-
Oidium	-	-	-	-	-	-	6	100	0.2
Total Fungi	**1157**	**24340**	**100**	**1047**	**22100**	**100**	**2916**	**61620**	**100**
Hyphal Fragment	20	420	1.7	21	440	2	44	930	1.5
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	2	40	0.2	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	1	-
Fibrous Particulate (1-4)	-	2	-	-	3	-	-	-	-
Background (1-5)	-	3	-	-	4	-	-	2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

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

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT AIHA-LAP, LLC--EMLAP Lab 165118

Initial report from: 10/06/2014 17:09:26

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

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number *(Lab Use Only)*:

241403858

Company: Facilty Support Services, LLC	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party
Street: 2685 State Street	
City: Hamden **State/Province:** CT	**Zip/Postal Code:** 06517 **Country:** United States
Report To (Name): Kevin Bogue	**Telephone #:** 203-288-1281
Email Address: kbogue.fss@snet.net	**Fax #:** **Purchase Order:**
Project Name/Number: 22214-5004 (woodward)	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: CT	**Connecticut Samples:** Commercial Residential

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test.
Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air
☐ NIOSH 7400
☐ w/ 8hr. TWA

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

TEM - Water
Fibers ≥10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

PLM - Bulk
☐ PLM EPA 600/R-93/116
☐ PLM EPA NOB (<1%)
☐ NYS 198.1 (friable-NY)
☐ NYS 198.6 (non-friable-NY)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/ Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

TEM - Dust
☐ Microvac – ASTM D 5755
☐ Wipe-ASTM D6480

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP

Soil/Rock/Vermiculite
☐ PLM CARB 435 – A (0.25% sensitivity)
☐ PLM CARB 435 – B (0.1% sensitivity)
☐ TEM CARB 435 – B (0.1% sensitivity)
☐ EPA Reg. 1 Screening Protocol (Qualitative)

Other:

Lead (Pb)

Flame Atomic Absorption
☐ Chips SW846-7000B or AOAC 974.02
☐ Soil SW846-7000B/7420
☐ Air NIOSH 7082
☐ Wastewater SM3111B or SW846-7000B/7420
☐ ASTM Wipe SW846-7000B/7420
☐ non ASTM Wipe SW846-7000B/7420
☐ TCLP SW846-1311/7420/SM 3111B

ICP
☐ Air NIOSH 7300 Modified
☐ non ASTM Wipe SW846-6010B or C
☐ ASTM Wipe SW846-6010B or C
☐ Soil SW846-6010 B or C
☐ Waste Water SW846-6010B or C
☐ TCLP SW846-6010B or C

Graphite Furnace Atomic Absorption
☐ Soil SW846-7421 ☐ Wastewater EPA 200.9
☐ Air NIOSH 7105 ☐ Drinking Water EPA 200.9

Other: ☐

RECEIVED
SEP 29 2014
By 17:00

Microbiology

Wipe and Bulk Samples
☐ Mold & Fungi – Direct Examination
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi Culture (Genus & Species)
☐ Bacterial Count & ID (Up to Three Types)
☐ Bacterial Count & ID (Up to Five Types)
☐ MRSA
☐ *Pseudomonas aeruginosa*

Water Samples
☐ Total Coliform & E.coli (P/A)
☐ Fecal Coliform (SM 9222D)
☐ Sewage Screen
☐ Heterotrophic Plate Count (SM 9215)

Air Samples
☒ Mold & Fungi (Spore Trap)
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi (Genus & Species)
☐ Bacterial Culture & ID (Up to Three Types)
☐ Bacterial Culture & ID (Up to Five Types)
☐ Endotoxin Testing

Real Time Q-PCR (See Analytical Guide for Code)
Code:

Legionella
☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4

Other: ☐

Materials Science

☐ Common Particle ID (large particles)
☐ Full Particle ID (environmental dust)
☐ Basic Material ID (solids)
☐ Advanced Material ID
☐ Physical Testing (Tensile, Compression)
☐ Combustion-by-products (soot, char, etc.)
☐ X-Ray Fluorescence (elem. analysis)
☐ X-Ray Diffraction (Crystalline Part.)
☐ MMVF's (Fibrous glass, RCF's)
☐ Particle Size (sieve/microscopy/laser)
☐ Combustible Dust
☐ Petrographic Examination

Other: ☐

IAQ

Nuisance Dust NIOSH ☐ 0500 ☐ 0600
Airborne Dust ☐ PM10 ☐ TSP
Silica Analysis: ☐ All Species
Silica Analysis – Single Species
☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite
☐ HVAC Efficiency
☐ Carbon Black
☐ Airborne Oil Mist
Radon Testing: Call for Kit and COC

Other: ☐

****Comments/Special Instructions:**

Client Sample #'s	MS1 - MS3		**Total # of Samples:** 3
Relinquished (Client): Kevin Bogue		**Date:** 9/29/14	**Time:** 3:20
Received (Lab):		**Date:**	**Time:**

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Chain of Custody

EMSL Order Number *(Lab Use Only)*:

241403858

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140929-5004-MS1	finished basement	150 l	9/29/14 10:26-10:36
20140929-5004-MS2	unfinished basement	150 l	10:46-10:56
20140929-5004-MS3	outside	150 l	11:22-11:32

RECEIVED
SEP 29 2014
By

*Comments/Special Instructions:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

ATTACHMENT B

FSS LISENSURE

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

KEVIN S. BOGUE

CERTIFICATE NO
000157

CURRENT THROUGH
08/31/15

VALIDATION NO.
03-928515

SIGNATURE

COMMISSIONER

ATTACHMENT C

ASBESTOS LABORATORY ANALYTICAL DATA

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241403861
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Kevin Bogue**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-5004 (WOODWARD)**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	09/29/14 5:00 PM
Analysis Date:	10/2/2014
Collected:	9/29/2014

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**
20140929_5004_S1 A *241403861-0001*	Basement chimney grout	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other)	**<1%**	**Chrysotile**
20140929_5004_S1 B *241403861-0002*	Basement chimney grout	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)		**None Detected**
20140929_5004_S1 C *241403861-0003*	Basement chimney grout	White Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
20140929_5004_S2 A *241403861-0004*	Spray foam insulation	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
20140929_5004_S2 B *241403861-0005*	Spray foam insulation	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
20140929_5004_S2 C *241403861-0006*	Spray foam insulation	Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
20140929_5004_S3 A *241403861-0007*	Interior window glazing	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)		**None Detected**

Analyst(s)

Kristin Lopez (7)
Lauren Brennan (14)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 10/03/2014 17:44:27

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241403861
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Kevin Bogue**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-5004 (WOODWARD)**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	09/29/14 5:00 PM
Analysis Date:	10/2/2014
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
20140929_5004_S3B *241403861-0008*	Interior window glazing	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140929_5004_S3C *241403861-0009*	Interior window glazing	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140929_5004_S4A *241403861-0010*	Window cement	Gray Non-Fibrous Homogeneous	<1%	Cellulose	15% 85%	Quartz Non-fibrous (other)	**None Detected**
20140929_5004_S4B *241403861-0011*	Window cement	Gray Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
20140929_5004_S4C *241403861-0012*	Window cement	Gray Non-Fibrous Homogeneous			20% 80%	Quartz Non-fibrous (other)	**None Detected**
20140929_5004_S5A *241403861-0013*	Foundation skim coat	Gray Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
20140929_5004_S5B *241403861-0014*	Foundation skim coat	Gray Non-Fibrous Homogeneous	<1%	Cellulose	10% 90%	Quartz Non-fibrous (other)	**None Detected**

Analyst(s)

Kristin Lopez (7)
Lauren Brennan (14)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 10/03/2014 17:44:27

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241403861
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Kevin Bogue**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-5004 (WOODWARD)**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	09/29/14 5:00 PM
Analysis Date:	10/2/2014
Collected:	9/29/2014

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**
20140929_5004_S5C *241403861-0015*	Foundation skim coat	Gray Non-Fibrous Homogeneous			20% Quartz 80% Non-fibrous (other)	**None Detected**
20140929_5004_S6A *241403861-0016*	Fiberglass tar paper	Brown/Black Fibrous Homogeneous	95%	Cellulose	5% Non-fibrous (other)	**None Detected**
20140929_5004_S6B *241403861-0017*	Fiberglass tar paper	Brown/Black Fibrous Homogeneous	95%	Cellulose	5% Non-fibrous (other)	**None Detected**
20140929_5004_S6C *241403861-0018*	Fiberglass tar paper	Black Fibrous Homogeneous	90%	Cellulose	10% Non-fibrous (other)	**None Detected**
20140929_5004_S7A *241403861-0019*	Exterior white window glazing	White Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
20140929_5004_S7B *241403861-0020*	Exterior white window glazing	White Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
20140929_5004_S7C *241403861-0021*	Exterior white window glazing	White Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**

Analyst(s)

Kristin Lopez (7)
Lauren Brennan (14)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 10/03/2014 17:44:27

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 241403861

Company: Facilty Support Services, LLC	**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments**
Street: 2685 State Street	*Third Party Billing requires written authorization from third party*
City: Hamden **State/Province:** CT	**Zip/Postal Code:** 06517 **Country:** United States
Report To (Name): Kevin Bogue	**Telephone #:** 203-288-1281
Email Address: kbogue.fss@snet.net	**Fax #:** **Purchase Order:**
Project Name/Number: 22214-5004 (woodward)	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: CT	**Connecticut Samples:** ☐ Commercial ☒ Residential

Turnaround Time (TAT) Options* – Please Check

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

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

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

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

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

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

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

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

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ TEM Qual. via Filtration Technique
☐ TEM Qual. via Drop-Mount Technique

Other:
☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: Kevin Bogue **Samplers Signature:** Kevin Bogue

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140929-5004-S1A	Basement chimney grout	1	9/29/14
-S1B	↓	1	↓
-S1C	↓	1	↓
20140929-5004-S2A	Spray foam insulation	2	↓
-S2B	↓	2	↓
-S2C	↓	2	↓

RECEIVED SEP 29 2014 By 17:00 walk

Client Sample # (s): S1A - S7C **Total # of Samples:** 21

Relinquished (Client): Kevin Bogue **Date:** 9/29/14 **Time:** 3:20

Received (Lab): **Date:** **Time:**

Comments/Special Instructions:

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

241403861

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140929-5004-S3A	~~test~~ Interior window glazing	3	9/29/14
-S3B	↓	3	↓
-S3C	↓	3	↓
20140929-5004-S4A	window cement	4	↓
-S4B	↓	4	↓
-S4C	↓	4	↓
20140929-5004-S5A	foundation skim coat ~~[illegible]~~	5	↓
-S5B	↓	5	↓
-S5C	↓	5	↓
20140929-5004-S6A	Fiberglass tar paper	6	↓
-S6B	↓	6	↓
-S6C	↓	6	↓
20140929-5004-S7A	exterior white window glazing	7	↓
-S7B	↓	7	↓
-S7C	↓	7	↓

RECEIVED
SEP 29 2014
By 17:00

*Comments/Special Instructions:

ATTACHMENT D

PCB ANALYTICAL DATA

80 Lupes Drive
Stratford, CT 06615

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

Client: Mr. Kevin Bogue
Facility Support Services
2685 State Street
Hamden, CT 06517

Analytical Report
CET# 4100029R

Report Date: October 09, 2014
Project: 22214-5004, Norwalk
PO Number:

Connecticut Laboratory Certificate: PH 0116
Massachussetts laboratory Certificate.: M-CT903

New York Certification: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 4.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
20140929_5004_P1	4100029-01	Solid	9/29/2014	09/30/2014
20140929_5004_P2	4100029-02	Solid	9/29/2014	09/30/2014

Client Sample ID 20140929_5004_P1
Lab ID: 4100029-01

PCBs by Soxhlet
Method: EPA 8082A

Analyst: CA
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	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1221	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1232	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1242	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1248	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1254	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1260	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1268	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
PCB-1262	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 18:42	
Surrogate: TCMX	*87.7 %*	*50 - 150*			B4J0231	10/02/2014	*10/03/2014 18:42*	
Surrogate: DCB	*124 %*	*50 - 150*			B4J0231	10/02/2014	*10/03/2014 18:42*	

Client Sample ID 20140929_5004_P2
Lab ID: 4100029-02

PCBs by Soxhlet **Analyst: CA**

Method: EPA 8082A **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	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1221	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1232	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1242	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1248	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1254	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1260	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1268	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
PCB-1262	ND	0.80	4	EPA 3540C	B4J0231	10/02/2014	10/03/2014 19:01	
Surrogate: TCMX	*79.4 %*	*50 - 150*			B4J0231	10/02/2014	*10/03/2014 19:01*	
Surrogate: DCB	*116 %*	*50 - 150*			B4J0231	10/02/2014	*10/03/2014 19:01*	

QUALITY CONTROL SECTION

Batch B4J0231 - EPA 8082A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B4J0231-BLK1)					Prepared: 10/2/2014 Analyzed: 10/3/2014				
PCB-1016	ND	0.20							
PCB-1221	ND	0.20							
PCB-1232	ND	0.20							
PCB-1242	ND	0.20							
PCB-1248	ND	0.20							
PCB-1254	ND	0.20							
PCB-1260	ND	0.20							
PCB-1268	ND	0.20							
PCB-1262	ND	0.20							
Surrogate: TCMX					*78.8*	*50 - 150*			
Surrogate: DCB					*102*	*50 - 150*			
LCS (B4J0231-BS1)					Prepared: 10/2/2014 Analyzed: 10/3/2014				
PCB-1016	0.835	0.20	1.000		83.5	50 - 150			
PCB-1260	0.881	0.20	1.000		88.1	50 - 150			
Surrogate: TCMX					*80.7*	*50 - 150*			
Surrogate: DCB					*102*	*50 - 150*			
Duplicate (B4J0231-DUP1)		**Source: 4100029-02**			Prepared: 10/2/2014 Analyzed: 10/3/2014				
PCB-1016	ND	0.80		ND				50	
PCB-1221	ND	0.80		ND				50	
PCB-1232	ND	0.80		ND				50	
PCB-1242	ND	0.80		ND				50	
PCB-1248	ND	0.80		ND				50	
PCB-1254	ND	0.80		ND				50	
PCB-1260	ND	0.80		ND				50	
PCB-1268	ND	0.80		ND				50	
PCB-1262	ND	0.80		ND				50	
Surrogate: TCMX					*74.1*	*50 - 150*			
Surrogate: DCB					*104*	*50 - 150*			

Batch S4J0303 - EPA 8082A

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Calibration Check (S4J0303-CCV1)					Prepared: 10/3/2014 Analyzed: 10/3/2014				
PCB-1016	909		1,000.000		90.9	80 - 120			
PCB-1260	860		1,000.000		86.0	80 - 120			
Surrogate: TCMX					*97.0*	*50 - 150*			
Surrogate: DCB					*92.7*	*50 - 150*			

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

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

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903

New York Certification 11982
Rhode Island Certification 199

CASE NARRATIVE

Revision: Original report dated 10/6/14; LCS results revised for batch B4J0231-EPA 8082A in quality control section.

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:

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 Homogenity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

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.

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.

4100029

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	624	CT ETPH	8270 CT List	8270 PNAs	PCBs (Soxhlet)	Pesticides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
20140929-5004-P1	–	9/29/14	Solid				X								X										1	
20140929-5004-P2	–	9/29/14	Solid				X								X										1	

Organics: 8260 CT List – Pesticides. Metals (check all that apply): 13 Priority Poll – Lab To Filter.

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, (C=Cool), O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, (V–Vial), O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Ken Bogue	9/29/14	[signature] 9-30-14 1555
[signature]	9-30-14 1640	[signature]

NOTES:

Client / Reporting Information

Company Name: Facility Support Services LLC
Address: 2685 State St.
City: Hamden State: CT Zip: 06517
Report To: K. Bogue E-mail: KBogue.FSS@SNET.NET
Phone #: 203-288-1281 Fax #:

Project Information

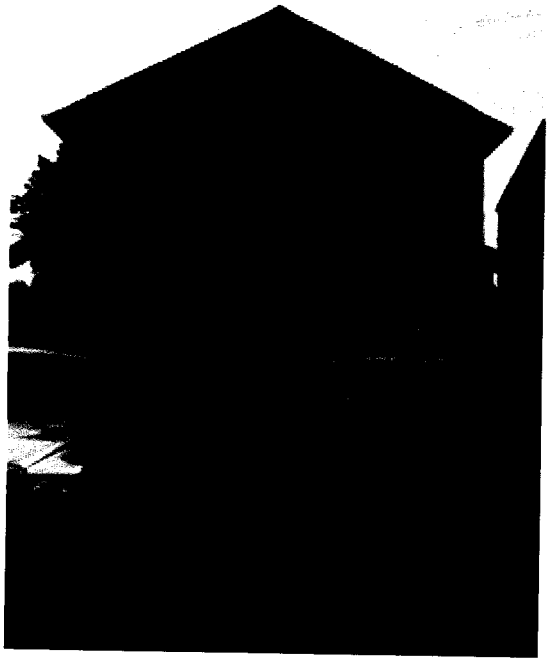
Project Contact: K. Bogue PO #: –
Project: 22214-5004 Project #: –
Location: Norwalk, CT Collector(s): KB
QA/QC: ☒ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report: ☒ PDF ☐ EDD - Specify Format ____ ☐ Other ____
RSR Reporting Limits (check one): ☐ GA ☐ GB ☐ SWP ☒ Other 1 ppm
Laboratory Certification Needed (check one): ☐ CT ☐ NY ☐ RI ☐ MA
Temp Upon Receipt: 4.8 °C Evidence of Cooling: (Y) N SHEET 1 OF 1

ATTACHMENT E

LEAD REPORT

LEAD BASED PAINT INSPECTION
REPORT OF FINDINGS
OF:

166 WOODWARD AVENUE
NORWALK, CONNECTICUT



DATE:
SEPTEMBER 29, 2014

PREPARED BY:
GILBERTCO LEAD INSPECTIONS LLC
287 MAIN STREET
ANSONIA, CONNECTICUT 06401

GILBERTCO
LEAD INSPECTIONS, LLC

"LEAD BASED PAINT SPECIALIST"

September 29, 2014

Job 9928-18-166

Kevin Bogue, LEP, CHMM
Facility Support Services, LLC
2685 State Street
Hamden, Connecticut 06517

Re: Lead Based Paint Inspection: 166 Woodward Ave., Norwalk, Connecticut

Gilbertco Lead Inspections LLC performed a limited XRF inspection for the presence of lead based paint at 166 Woodward Ave., Norwalk, Connecticut. The inspection was requested by Facility Support Services in response to planned renovations or repairs to the site by State of Connecticut Department of Housing Community Block Grant Disaster Recovery Program.

The site inspected consists of two story, two family home built about 1923. The exterior is vinyl sided with vinyl replacement windows throughout. The home was in good repair and enjoys good housekeeping. There are no children under the age of six residing here.

In accordance with HUD/EPA guidance issued June 26, 1996, the RMD-LPA-1 Spectrum Analyzer was used in the "Unlimited" assaying mode. This enables the equipment to accurately determine whether the result is "Positive", above the 1.0 mg/cm2 action level or "Negative", below the action level regardless of precision or operator bias. In accordance with the above guidance, values of 0.91 mg/cm2 through 1.19 mg/cm2 are considered "Inconclusive", meaning the value level of lead in paint was so close to the 1.0 mg/cm2 action level that further analysis by XRF would not result in a "Positive" or "Negative" answer. Only laboratory analysis of the paint film can determine actual values in this range. Chip sampling of inconclusive was not included in the scope of this report, therefore, any results above 0.9 mg/cm2 are considered positive. Results are arranged floor plan style with the substrate and condition noted. Orientation of rooms places side 'one' as street side, with side 'two' to the left, side 'three' opposite, and wall 'four' to the right. Rooms were tested in a clockwise pattern.

287 Main Street
Ansonia, CT 06401
203-732-2615 - FAX 866-437-8191
Toll Free In CT Only 1-800-959-2985

In regards to the above mentioned property, *several lead based painted surfaces and lead based paint hazards were identified.* A lead based paint hazard is "any condition that causes lead exposure to lead from lead-contaminated dust, lead contaminated soil, or lead-contaminated paint that is deteriorated or present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects...". (EPA Lead Hazard Reduction Act of 1992- Title X) These areas, identified in the following report, can be remediated using lead safe practices. Once these areas are made intact, they should be placed on a lead monitoring and maintenance plan (attached). In April 2010, a new EPA regulation requires that any contractor who disturbs more than six square feet of painted surface per room or does window replacement must be certified as a Renovate Right Contractor. Homeowners are allowed to do their own renovation but are not exempt from providing renovation notices or posting informational signs. Further information regarding Renovate Right may be obtained at www.epa.gov/lead/pubs/renovation or by calling the National Lead Information Center at 1-800-424-LEAD (5323).

Lead in dust was not included in the scope of this report. Only laboratory analysis can insure that no lead dust hazards remain after renovations or from everyday use of the home.

Although soil was not tested for lead, it can be presumed positive unless proven otherwise. Vegetable plants should not be planted near the perimeter of the house or in water runoff areas. Children should not be allowed to play in bare soil areas adjacent to the house. Asphalt, bushes, mulch, or good quality grass covering are acceptable deterrents. These deterrents are in place.

This lead inspection report should be disclosed to future tenants and /or buyers in accordance with Title X (copy enclosed).

Please feel free to call if any questions arise,

Maureen Monaco
Director of Operations
Consultant Contractor #270
Lead Inspector Risk Assessor #1172
Lead Abatement Supervisor #2383
Lead Planner/Project Designer #2152

CERTIFICATION
LEAD IN PAINT RESULTS

AGENCY:	GILBERTCO LEAD INSPECTIONS LLC 287 MAIN STREET ANSONIA, CONNECTICUT 06401
PROJECT ADDRESS:	166 WOODWARD AVE. NORWALK CONNECTICUT
PROJECT NUMBER:	9928-18-166
TEST DATE:	SEPTEMBER 29, 2014
REQUIREMENTS:	HUD GUIDELINES LEAD INSPECTION- SURFACE BY SURFACE
INSTRUMENTATION:	SCITEC MAP (KEYMASTER- BRUKER HANDHELD) FLUOROSCOPE SPECTRUM ANALYZER (XRF) COBALT 57 SOURCE
REPORT MEDIUM:	MG PB/CM2 (MILLIGRAMS OF LEAD PER SQUARE CENTIMETER)
CALIBRATION:	TO MEASURE LEAD K-SHELL EMISSIONS. FACTORY CALIBRATED WITH HUD APPROVED REFERENCE STANDARDS. CALIBRATION FIELD CHECKED HOURLY AS RECOMMENDED BY MANUFACTURER
OPERATORS CERTIFICATION:	LEAD CONSULTANT CONTRACTOR-CC270 LEAD INSPECTOR RISK ASSESSOR- IR 1172 LEAD ABATEMENT SUPERVISOR- 2383 LEAD PLANNER/PROJECT DESIGNER -2152 MT(ASCP)- BS- Medical Technology CLS- Clinical Laboratory Scientist

I hereby certify to the best of my knowledge and capabilities that this report reflects the true lead content of the surfaces tested in this report on this date.

_____ _____

166 Woodward Avenue, Left Side and Front Porch, Norwalk, Connecticut

September 29, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.18	Okay
Living Room	1	1	Door	Metal	Intact	-0.27	Negative
Living Room	1	1	Door Casing	Wood	Intact	0.31	Negative
Living Room	1	1	Wall	Sheetrk	Intact	0.35	Negative
Living Room	1	1	Baseboard	Wood	Intact	0.41	Negative
Living Room	1	1	Window Trim	Wood	Intact	0.31	Negative
Living Room	1	1	Wall	Sheetrk	Intact	0.39	Negative
Living Room	1	2	Window Sill	Wood	Intact	0.65	Negative
Living Room	1	2	Window Trim	Wood	Intact	0.15	Negative
Living Room	1	2	Baseboard	Wood	Intact	0.18	Negative
Living Room	1	3	Newel Post	Wood	Intact	0.2	Negative
Living Room	1	3	Stair Tread	Wood	Intact	0.22	Negative
Living Room	1	1	Stair Riser	Wood	Intact	-0.29	Negative
Living Room	1	1	Stair Stringer	Wood	Intact	0.12	Negative
Living Room	1	1	Spindle	Wood	Intact	0.23	Negative
Living Room	1	1	Railing	Wood	Intact	0.12	Negative
Living Room	1	4	Wall	Sheetrk	Intact	0.19	Negative
Living Room	1	1	Ceiling	Sheetrk	Intact	0.25	Negative
Living Room	1	3	Wall	Sheetrk	Intact	0.63	Negative
Living Room	1	3	Baseboard	Wood	Intact	-0.41	Negative
Living Room	1	3	Door Casing	Wood	Intact	0.16	Negative
Living Room	1	3	Door Jamb	Wood	Intact	0.36	Negative
Kitchen	2	1	Door Casing	Wood	Intact	0.09	Negative
Kitchen	2	1	Wall	Sheetrk	Intact	0.06	Negative
Kitchen	2	1	Baseboard	Wood	Intact	-0.27	Negative
Kitchen	**2**	**1**	**Door to basement**	**Wood**	**Intact**	**9.1**	**Positive**
Kitchen	2	1	Door Jamb	Wood	Intact	0.06	Negative
Kitchen	2	1	Door Casing	Wood	Intact	-0.05	Negative
Kitchen	2	4	Wall	Sheetrk	Intact	-0.12	Negative
Kitchen	2	4	Baseboard	Wood	Intact	0.18	Negative
Kitchen	2	4	Cabinet	Wood	Intact	-0.02	Negative
Kitchen	2	4	Cabinet	Wood	Intact	-0.16	Negative
Kitchen	2	4	Wall	Sheetrk	Intact	0.06	Negative
Kitchen	2	4	Cabinet	Wood	Intact	0.21	Negative
Kitchen	2	3	Wall	Sheetrk	Intact	0.36	Negative
Kitchen	2	2	Wall	Sheetrk	Intact	-0.23	Negative
Kitchen	2	2	Window Sill	Wood	Intact	0.7	Negative
Kitchen	2	2	Window Trim	Wood	Intact	0.18	Negative
Kitchen	**2**	**2**	**Window Apron**	**Wood**	**Intact**	**6.18**	**Positive**
Kitchen	**2**	**2**	**Window Apron**	**Wood**	**Intact**	**6.66**	**Positive**
Kitchen	2	2	Baseboard	Wood	Intact	0.25	Negative
Kitchen	2	1	Ceiling	Sheetrk	Intact	-0.54	Negative

Laundry	3	1	Wall	Sheetrk	Intact	-0.13	Negative
Laundry	3	2	Wall	Sheetrk	Intact	0.08	Negative
Laundry	3	3	Wall	Sheetrk	Intact	0.09	Negative
Laundry	3	4	Wall	Sheetrk	Intact	0.02	Negative
Laundry	3	4	Baseboard	Wood	Intact	0.08	Negative
Laundry	3	4	Door to rt apt	Other	Intact	-0.13	Negative
Laundry	3	4	Door Casing	Wood	Intact	0.07	Negative
Laundry	3	1	Ceiling	Sheetrk	Intact	-0.27	Negative
Basement	**4**	**3**	**Door**	**Wood**	**Intact**	**6.86**	**Positive**
Basement	**4**	**3**	**Door Casing**	**Wood**	**Intact**	**2.73**	**Positive**
Basement	4	2	Wall	Sheetrk	Intact	0.15	Negative
Basement	4	4	Wall	Sheetrk	Intact	0.2	Negative
Basement	4	1	Ceiling	Sheetrk	Intact	0.15	Negative
Basement	4	1	Floor	Wood	Intact	0.45	Negative
Basement	**4**	**2**	**Baseboard**	**Wood**	**Intact**	**6.67**	**Positive**
Basement	4	1	Stair Tread	Wood	Intact	-0.21	Negative
Basement	4	1	Floor	Masonry	Intact	-0.13	Negative
Basement	4	1	Wall	Masonry	Intact	-0.41	Negative
Basement	4	1	Shelf	Masonry	Intact	-0.2	Negative
Basement	4	2	Wall	Masonry	Non-intact	0.04	Negative
Basement	4	3	Wall	Masonry	Non-intact	-0.18	Negative
Basement	4	1	Post/column	Wood	Non-intact	0.13	Negative
Basement	4	1	Post/column	Wood	Non-intact	0.1	Negative
Basement	4	1	Support Beam	Wood	Intact	-0.34	Negative
Front Bedroom	5	1	Door	Wood	Intact	-0.23	Negative
Front Bedroom	5	3	Door Jamb	Wood	Intact	-0.18	Negative
Front Bedroom	5	3	Door Casng	Wood	Intact	0.77	Negative
Front Bedroom	5	3	Wall	Sheetrk	Intact	-0.16	Negative
Front Bedroom	5	4	Wall	Wood	Intact	0	Negative
Front Bedroom	**5**	**4**	**Baseboard**	**Wood**	**Intact**	**6.58**	**Positive**
Front Bedroom	5	4	Closet Door	Wood	Intact	-0.22	Negative
Front Bedroom	5	4	Clo Dr Csng	Wood	Intact	-0.13	Negative
Front Bedroom	5	1	Wall	Wood	Intact	0.19	Negative
Front Bedroom	**5**	**1**	**Window Trim**	**Wood**	**Intact**	**8.72**	**Positive**
Front Bedroom	**5**	**1**	**Window Sill**	**Wood**	**Intact**	**1.2**	**Positive**
Front Bedroom	**5**	**1**	**Window Apron**	**Wood**	**Intact**	**4.09**	**Positive**
Front Bedroom	**5**	**1**	**Baseboard**	**Wood**	**Intact**	**3.53**	**Positive**
Front Bedroom	5	2	Wall	Sheetrk	Intact	0.4	Negative
Front Bedroom	**5**	**2**	**Window Sill**	**Wood**	**Intact**	**1.56**	**Positive**
Front Bedroom	**5**	**2**	**Window Trim**	**Wood**	**Intact**	**9.03**	**Positive**
Front Bedroom	**5**	**2**	**Window Apron**	**Wood**	**Intact**	**6.3**	**Positive**
Front Bedroom	**5**	**2**	**Baseboard**	**Wood**	**Intact**	**7.3**	**Positive**
Front Bedroom	5	2	Ceiling	Sheetrk	Intact	0.24	Negative
Front Bedroom	5	2	Ceiling Trim	Wood	Intact	-0.22	Negative
Front Bedroom	5	3	Wall	Sheetrk	Intact	0.07	Negative

Rear Bedroom	6	4	Door	Other	Intact	-0.21	Negative
Rear Bedroom	6	4	Door Jamb	Wood	Intact	0.18	Negative
Rear Bedroom	6	4	Door Casing	Wood	Intact	0.38	Negative
Rear Bedroom	6	1	Wall	Sheetrk	Intact	-0.2	Negative
Rear Bedroom	6	1	Baseboard	Wood	Intact	0.48	Negative
Rear Bedroom	6	1	Wall	Wood	Intact	-0.01	Negative
Rear Bedroom	6	2	Closet Door	Wood	Intact	-0.04	Negative
Rear Bedroom	6	2	Clo Dr Csng	Wood	Intact	0.19	Negative
Rear Bedroom	**6**	**2**	**Wall**	**Wood**	**Intact**	**3.17**	**Positive**
Rear Bedroom	**6**	**1**	**Ceiling**	**Sheetrk**	**Intact**	**5**	**Positive**
Rear Bedroom	6	1	Ceiling Trim	Wood	Intact	0.25	Negative
Rear Bedroom	**6**	**4**	**Wall**	**Wood**	**Intact**	**1.77**	**Positive**
Rear Bedroom	**6**	**4**	**Baseboard**	**Wood**	**Intact**	**6.9**	**Positive**
Rear Bedroom	**6**	**3**	**Wall**	**Other**	**Intact**	**4.94**	**Positive**
Rear Bedroom	**6**	**3**	**Window Trim**	**Wood**	**Intact**	**8.72**	**Positive**
Rear Bedroom	**6**	**3**	**Window Sill**	**Wood**	**Intact**	**1.25**	**Positive**
Rear Bedroom	**6**	**3**	**Window Apron**	**Wood**	**Intact**	**8.14**	**Positive**
Rear Bedroom	**6**	**1**	**Floor-parquet**	**Wood**	**Stain/varnish**	**2.05**	**Positive**
Bath	7	1	Door	Wood	Intact	-0.05	Negative
Bath	7	1	Door Jamb	Wood	Intact	-0.07	Negative
Bath	7	1	Door Casing	Wood	Intact	-0.14	Negative
Bath	7	1	Wall	Sheetrk	Intact	-0.17	Negative
Bath	7	1	Ceiling	Sheetrk	Intact	0.08	Negative
Bath	7	1	Ceiling hatch	Wood	Intact	-0.22	Negative
Bath	7	2	Cabinet	Wood	Intact	-0.21	Negative
Bath	7	4	Wall	Sheetrk	Intact	-0.42	Negative
Bath	7	2	Wall	Sheetrk	Intact	0.4	Negative
Bath	7	3	Wall	Sheetrk	Intact	0.21	Negative
Bath	7	3	Window Trim	Wood	Intact	-0.13	Negative
Bath	7	3	Window Sill	Wood	Intact	0.2	Negative
Bath	7	3	Window Apron	Wood	Intact	0.11	Negative
Hall outside bath	**7**	**1**	**Floor-parquet**	**Wood**	**Stain/varnish**	**1.82**	**Positive**
Front Porch	8	3	Door	Metal	Non-intact	-0.12	Negative
Front Porch	8	3	Door Jamb	Wood	Intact	-0.01	Negative
Front Porch	**8**	**3**	**Door Casing**	**Wood**	**Intact**	**14.32**	**Positive**
Front Porch	**8**	**3**	**Clapboard**	**Wood**	**Intact**	**13.4**	**Positive**
Front Porch	**8**	**4**	**Wall**	**Wood**	**Intact**	**13.68**	**Positive**
Front Porch	**8**	**1**	**Wall**	**Wood**	**Intact**	**14.83**	**Positive**
Front Porch	**8**	**2**	**Wall**	**Wood**	**Intact**	**14.5**	**Positive**
Front Porch	**8**	**1**	**Ceiling**	**Wood**	**Intact**	**16.35**	**Positive**
Front Porch	**8**	**1**	**Window Sill**	**Wood**	**Intact**	**1.92**	**Positive**
Front Porch	**8**	**1**	**Window Trim**	**Wood**	**Intact**	**15.23**	**Positive**
Front Porch	**8**	**1**	**Window Apron**	**Wood**	**Intact**	**10.93**	**Positive**
Front Porch	**8**	**1**	**Door Casing**	**Wood**	**Intact**	**13.81**	**Positive**

Front Porch	8	1 Door Jamb	Wood	Intact	3.25 Positive
Front Porch	8	1 Window Sash	Wood	Intact	12.24 Positive
Front Porch	8	1 Floor	Wood	Intact	1.77 Positive

166 Woodward Avenue, Right Side, Norwalk, Connecticut

September 29, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.12	Okay
Living Room	1	1	Door	Metal	Intact	-0.21	Negative
Living Room	1	1	Door Casing	Wood	Non-intact	-0.28	Negative
Living Room	1	1	Wall	Sheetrk	Intact	-0.06	Negative
Living Room	1	1	Baseboard	Wood	Intact	0.12	Negative
Living Room	1	1	Wall	Wood	Intact	-0.18	Negative
Living Room	1	1	Window Sill	Wood	Intact	-0.07	Negative
Living Room	1	1	Window Trim	Wood	Intact	0.07	Negative
Living Room	1	1	Window Apron	Wood	Intact	-0.1	Negative
Living Room	1	2	Wall	Wood	Intact	-0.16	Negative
Living Room	1	2	Baseboard	Wood	Intact	0.17	Negative
Living Room	1	2	Stair Tread	Wood	Stain/varnish	-0.13	Negative
Living Room	1	2	Stair Riser	Wood	Stain/varnish	0.09	Negative
Living Room	1	2	Stair Stringer	Wood	Stain/varnish	-0.24	Negative
Living Room	1	1	Railing	Wood	Intact	0.32	Negative
Living Room	1	1	Ceiling	Wood	Intact	0.22	Negative
Living Room	1	4	Wall	Wood	Intact	0.16	Negative
Living Room	1	4	Window Sill	Wood	Intact	-0.1	Negative
Living Room	1	4	Window Trim	Wood	Intact	0.38	Negative
Living Room	1	4	Window Apron	Wood	Intact	-0.18	Negative
Living Room	1	4	Baseboard	Wood	Intact	-0.07	Negative
Living Room	1	2	Wall	Sheetrk	Intact	-0.3	Negative
Living Room	1	3	Wall	Wood	Intact	-0.21	Negative
Living Room	1	3	Door Casing	Wood	Intact	0.06	Negative
Living Room	1	3	Door Jamb	Wood	Intact	-0.04	Negative
Living Room	1	4	Baseboard	Wood	Intact	0.3	Negative
Kitchen	2	1	Wall	Sheetrk	Intact	-0.16	Negative
Kitchen	2	1	Ceiling	Sheetrk	Intact	-0.18	Negative
Kitchen	2	1	Baseboard	Wood	Intact	-0.33	Negative
Kitchen	2	4	Wall	Sheetrk	Intact	-0.25	Negative
Kitchen	2	4	Baseboard	Wood	Intact	0.29	Negative
Kitchen	2	4	Window Trim	Wood	Intact	0.22	Negative
Kitchen	2	4	Window Sill	Wood	Intact	0.68	Negative
Kitchen	2	2	Cabinet	Wood	Stain/varnish	-0.51	Negative
Kitchen	2	2	Wall	Sheetrk	Intact	-0.05	Negative
Kitchen	2	1	Door to basement	Other	Intact	-0.38	Negative
Kitchen	2	1	Door Casing	Wood	Intact	-0.23	Negative
Kitchen	2	3	Wall	Sheetrk	Intact	0.64	Negative
Kitchen	**2**	**3**	**Window Sill**	**Wood**	**Intact**	**1.82**	**Positive**
Kitchen	2	3	Window Trim	Wood	Intact	-0.26	Negative
Kitchen	2	3	Window Jamb	Wood	Intact	0.3	Negative
Kitchen	2	3	Baseboard	Wood	Intact	0.77	Negative
Kitchen	**2**	**4**	**Wall**	**Sheetrk**	**Intact**	**3.27**	**Positive**

Kitchen	2	1	Ceiling	Sheetrk	Intact	-0.27	Negative
Basement	3	1	Floor	Wood	Intact	0.05	Negative
Basement	3	2	Wall	Sheetrk	Intact	-0.15	Negative
Basement	3	4	Wall	Sheetrk	Intact	-0.06	Negative
Basement	**3**	**4**	**Baseboard**	**Wood**	**Intact**	**1.51**	**Positive**
Basement	3	4	Stair Tread	Wood	Intact	-0.29	Negative
Basement	3	1	Floor	Masonry	Intact	-0.07	Negative
Basement	3	1	Beam	Masonry	Intact	-0.12	Negative
Basement	3	1	Wall	Masonry	Intact	-0.3	Negative
Basement	3	4	Wall	Masonry	Non-intact	-0.2	Negative
Basement	3	3	Wall	Masonry	Non-intact	-0.63	Negative
Bath	4	1	Door	Other	Intact	-0.38	Negative
Bath	4	1	Door Jamb	Wood	Intact	-0.1	Negative
Bath	**4**	**1**	**Door Casing**	**Wood**	**Intact**	**2.88**	**Positive**
Bath	**4**	**1**	**Door Casing**	**Wood**	**Intact**	**1.21**	**Positive**
Bath	4	1	Wall	Sheetrk	Intact	0.09	Negative
Bath	4	4	Wall	Sheetrk	Intact	-0.01	Negative
Bath	4	4	Cabinet	Wood	Intact	0.05	Negative
Bath	4	2	Wall	Sheetrk	Intact	0.18	Negative
Bath	4	1	Ceiling	Sheetrk	Intact	-0.09	Negative
Bath	4	2	Shelf	Wood	Intact	-0.05	Negative
Rear Bedroom	5	1	Door	Other	Intact	0.27	Negative
Rear Bedroom	5	1	Door Jamb	Wood	Intact	0.07	Negative
Rear Bedroom	5	1	Door Casing	Wood	Intact	-0.01	Negative
Rear Bedroom	5	1	Wall	Sheetrk	Intact	0.04	Negative
Rear Bedroom	**5**	**4**	**Wall**	**Sheetrk**	**Intact**	**1.74**	**Positive**
Rear Bedroom	**5**	**4**	**Wall**	**Sheetrk**	**Intact**	**2.85**	**Positive**
Rear Bedroom	**5**	**3**	**Wall**	**Sheetrk**	**Intact**	**2.55**	**Positive**
Rear Bedroom	5	2	Wall	Sheetrk	Intact	0.18	Negative
Rear Bedroom	**5**	**2**	**Baseboard**	**Wood**	**Intact**	**2.31**	**Positive**
Rear Bedroom	5	1	Floor	Wood	Stain/varnish	0.67	Negative
Rear Bedroom	**5**	**1**	**Ceiling**	**Sheetrk**	**Intact**	**1.39**	**Positive**
Rear Bedroom	5	1	Ceiling	Sheetrk	Intact	0.47	Negative
Rear Bedroom	**5**	**4**	**Window Sill**	**Wood**	**Intact**	**1.71**	**Positive**
Rear Bedroom	**5**	**4**	**Window Trim**	**Wood**	**Intact**	**1.03**	**Inconclusive**
Rear Bedroom	**5**	**4**	**Window Trim**	**Wood**	**Intact**	**1.63**	**Positive**
Rear Bedroom	5	1	Floor	Wood	Stain/varnish	0.23	Negative
Front Bedroom	6	3	Door	Other	Intact	-0.26	Negative
Front Bedroom	6	3	Door Casing	Wood	Intact	-0.2	Negative
Front Bedroom	**6**	**3**	**Door Jamb**	**Wood**	**Intact**	**3.65**	**Positive**
Front Bedroom	6	3	Door Jamb	Wood	Intact	0.35	Negative
Front Bedroom	**6**	**3**	**Door Jamb**	**Wood**	**Intact**	**7.36**	**Positive**
Front Bedroom	**6**	**3**	**Door Jamb**	**Wood**	**Intact**	**3.42**	**Positive**

Front Bedroom	6	3	Wall	Sheetrk	Intact	1.38	Positive
Front Bedroom	6	3	Baseboard	Wood	Intact	2.41	Positive
Front Bedroom	6	3	Floor	Wood	Intact	2	Positive
Front Bedroom	6	4	Wall	Sheetrk	Intact	1.79	Positive
Front Bedroom	6	4	Window Sill	Wood	Intact	1.25	Positive
Front Bedroom	6	4	Window Trim	Wood	Intact	0.37	Negative
Front Bedroom	6	4	Baseboard	Wood	Intact	1.82	Positive
Front Bedroom	6	1	Wall	Sheetrk	Intact	1.29	Positive
Front Bedroom	6	1	Window Trim	Wood	Intact	0.49	Negative
Front Bedroom	6	1	Window Sill	Wood	Intact	1.87	Positive
Front Bedroom	6	1	Baseboard	Wood	Intact	1.73	Positive
Front Bedroom	6	2	Closet Door	Other	Intact	-0.23	Negative
Front Bedroom	6	2	Clo Dr Csng	Wood	Intact	-0.16	Negative
Front Bedroom	6	2	Wall	Sheetrk	Intact	1.82	Positive
Front Bedroom	6	1	Ceiling	Sheetrk	Intact	1.39	Positive
Front Bedroom	6	1	Floor	Wood	Stain/varnish	1.77	Positive

166 Woodward Ave., Exterior, Norwalk, Connecticut

September 29, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.11	Okay
Exterior	**1**	**1**	**Threshold**	**Wood**	**Intact**	**1.25**	**Positive**
Exterior	**1**	**1**	**Window Sill**	**Wood**	**Non-Intact**	**1.12**	**Positive**
Exterior	**1**	**1**	**Stationery wnd**	**Wood**	**Non-Intact**	**4.89**	**Positive**
Exterior	1	1	Vinyl brick	Other	Intact	0.65	Negative
Exterior	1	2	Window Trim	aluminum	Non-intact	0.6	Negative
Exterior	**1**	**2**	**Foundation Wall**	**Masonry**	**Non-Intact**	**2.06**	**Positive**
Exterior	1	2	Foundation Wall	Masonry	Non-intact	-0.33	Negative
Exterior	1	3	Foundation Wall	Masonry	Non-intact	0.89	Negative
Exterior	**1**	**3**	**Foundation Wall**	**Masonry**	**Non-Intact**	**7.7**	**Positive**
Exterior	**1**	**3**	**Basemnt wnd**	**Wood**	**Non-Intact**	**1.21**	**Positive**
Exterior	1	3	Basemnt wnd	Wood	Non-intact	0.34	Negative
Exterior	1	3	Porch Floor	Wood	Non-intact	-0.25	Negative
Exterior	1	3	Stair Tread	Wood	Non-intact	0.45	Negative
Exterior	1	3	Porch Railing	Wood	Non-intact	-0.03	Negative
Exterior	**1**	**3**	**Clapboard***	**Wood**	**Non-Intact**	**7.6**	**Positive**
			***under siding**				
			melted vinyl				
Exterior	**1**	**3**	**Basemnt wnd**	**Wood**	**Non-Intact**	**3.5**	**Positive**
Exterior	**1**	**4**	**Basemnt wnd**	**Wood**	**Non-Intact**	**6.89**	**Positive**
Exterior	1	4	Foundation Wall	Masonry	Non-intact	-0.31	Negative

MANAGEMENT PLAN

FOR

INTACT LEAD-BASED PAINT CONTAINING SURFACES

As a homeowner, you should know that painted surfaces throughout this house have been found to contain toxic levels of lead. These surfaces do not have to be abated as they are presently intact. Lead paint and lead dust pose a health risk and are especially dangerous to young children and pregnant woman. The inspection report lists areas that contain lead based paint. Lead paint is presumed to exist on all similarly painted surfaces whether tested or not. If currently intact surfaces become nonintact then lead hazard remediation procedures must be invoked.

As the homeowner, you are responsible for observing and monitoring all areas that have been identified or presume to contain lead based paint. Further testing and possible abatement may be needed if any of the surfaces are to be disturbed during renovations or if the surfaces become damaged. Defective surfaces are characterized by cracking, blistering, chalking or peeling paint. If any of these conditions arise, you should contact a qualified lead abatement contractor, a Renovate Right Certified Contractor or the local health department. Do not attempt to remove lead containing surfaces yourself as the lead dust that may arise is extremely hazardous.

As the homeowner, you are responsible for warning all persons entering your home that lead based paint is present. This includes tenants, visitors, etc. In April 2010, a new EPA regulation requires that any contractor who disturbs more than six square feet of painted surface must be certified as a Renovate Right Contractor. Homeowners are allowed to do their own renovation but are not exempt from providing renovation notices or posting informational signs. Further information regarding Renovate Right may be obtained at www.epa.gov/lead/pubs/renovation or by calling the National Lead Information Center at 1-800-424-LEAD (5323).

Children are especially susceptible to lead hazards. As with any lead containing surface, children should not be allowed to mouth or chew on woodwork. Hygiene practices must include hand washing before meals.

If any child is found to have an elevated blood lead level then you must notify the local health department.

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

Lead Warning Statement

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

Lessor's Disclosure

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

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

_____

_____

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

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

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

_____

_____

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

Lessee's Acknowledgment (initial)

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

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

Agent's Acknowledgment (initial)

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

Certification of Accuracy

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

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