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

39 Morehouse Avenue
Milford, 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

January 19, 2015

FSS #22214-2319

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 Bogue

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

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I. Introduction

Facility Support Services, LLC (FSS) was contracted by Martinez, Couch & Associates, LLC (MCA) to perform a limited scope hazardous materials survey of 39 Morehouse Avenue in Milford, Connecticut (the "Site"). The purpose of this inspection was to identify the presence of asbestos, PCBs, 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. FSS did not perform radon testing due to the proposed raising of the residence above grade to accommodate flood levels.

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 January 8, 2015. Testing for total spores in air was conducted for the following areas of 39 Morehouse Avenue in Milford, Connecticut to identify concerns with indoor air quality related to mold and fungi:

- Basement
- Outside of House

In addition, a blank sample was collected and analyzed for quality assurance reasons. 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
39 Morehouse Avenue, Milford, Connecticut

Sample Number & Location	Raw Count	Total Fungi (Count/m^3)	Spore Types Present
20150108_222142319_MS1 Outside	11	230	Cladosporium
20150108_222142319_MS2 Basement	1,202	25,360	Aspergillus/Penicillium, Basidiospores, Cladosporium, Pithomyces
20150108_222142319_MS3 Blank	0	No Trace	None

The suite of mold spores in the outside sample versus the interior samples were dissimilar. The primary mold species was Aspergillus/Pencillium for the basement sample; 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 39 Morehouse Avenue residence of up to 25,360/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 elevated above the outside sample.

III. Asbestos

FSS conducted a limited scope asbestos inspection and bulk sampling on January 8, 2015 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:

- Exterior foundation white skim coat

- Exterior foundation grey base coat
- Basement fiberglass insulation paper wrapping
- Basement chimney foundation skim coat
- Basement grey brick mortar on chimney

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 Appendix C of this report.

Laboratory results have revealed that the asbestos content of the tested materials were not detected and are below the 1% required to confirm a material as asbestos containing.

IV. PCBs

Following an inspection of building materials proposed for renovations, no suspected PCB-containing materials were identified.

V. Lead

The subject residential structure was built prior to 1978 (in 1928) 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 RMD LPA-1 X-Ray Fluoroscope Spectrum Analyzer. Appendix D contains the Lead Inspection Report. The findings of the investigation determined that following tested surfaces were positive for lead based paint (>1.0 mg/cm^2):

- Exterior
    - Overhang/soffit
    - Transom
    - Wall-clapboard

Non-Intact Materials

Following the HUD Lead-Safe Housing Guidelines, non-intact materials should undergo interim measures to abate the hazard. The following non-intact lead containing materials have been identified in the residence:

- Exterior
    - Overhang/soffit
    - Wall-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.

Asbestos – No asbestos containing materials were identified in materials proposed for renovation or demolition, therefore, no further investigation or special handling/disposal for asbestos is required for this project.

PCBs - No suspected PCB-containing materials were identified in proposed renovation materials. No further investigations or special disposal requirements (for PCBs) are required for this project.

Mold - Mold spore count analysis indicates accelerated mold growth in the basement of the residence (when comparing indoor mold spore count numbers to exterior spore count numbers). A mold abatement plan for basement materials and any visibly identifiable mold areas should be developed.

Lead - Following the HUD Lead-Safe Housing Guidelines, the non-intact areas should undergo interim measures to abate the hazard. The following non-intact lead containing surfaces were identified within the residence that need to be abated:

- Exterior
    - Overhang/soffit
    - Wall-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.

APPENDICES

APPENDIX 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: 241500142
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: 01/08/2015
Received: 01/13/2015
Analyzed: 01/16/2015

Proj: 22214-2319

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

Lab Sample Number:	241500142-0001			241500142-0002			241500142-0003		
Client Sample ID:	20150108_222142319_MS1			20150108_222142319_MS2			20150108_222142319_MS3		
Volume (L):	150			150			0		
Sample Location:	Exterior			Basement			Blank		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	865	18300	72.2	-	-	-
Basidiospores	-	-	-	7	100	0.4	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	11	230	100	328	6920	27.3	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces	-	-	-	2	40	0.2	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**-**	**None Detected**	**-**	**1202**	**25360**	**100**	**-**	**No Trace**	**-**
Hyphal Fragment	4	80	34.8	12	250	1	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	0	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	0*	-
Skin Fragments (1-4)	-	-	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	-	-	-	1	-	-	-	-
Background (1-5)	-	1	-	-	4	-	-	-	-

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

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: 01/19/2015 14:03:08

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

OrderID: 241500142

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 241500142

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

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 - 2319	**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

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements*

Non Culturable Air Samples (Spore Traps) – Test Codes

- **M001** Air-O-Cell
- **M049** BioSIS
- **M030** Micro 5
- **M173** Allegro M2
- **M003** Burkard
- **M174** MoldSnap
- **M004** Allergenco
- **M043** Cyclex
- **M176** Relle Smart
- **M032** Allergenco-D
- **M002** Cyclex-d
- **M130** Via-Cell
- **M172** Versa Trap

Other Microbiology Test Codes

- **M041** Fungal Direct Examination
- **M005** Viable Fungi ID and Count
- **M006** Viable Fungi ID and Count (Speciation)
- **M007** Culturable Fungi
- **M008** Culturable Fungi (Speciation)
- **M009** Gram Stain Culturable Bacteria
- **M010** Bacterial Count and ID – 3 Most Prominent
- **M011** Bacterial Count and ID – 5 Most Prominent
- **M013** Sewage Contamination in Buildings
- **M014** Endotoxin Analysis
- **M015** Heterotrophic Plate Count
- **M180** Real Time Q-PCR-ERMI 36 Panel
- **M018** Total Coliform (Membrane Filtration)
- **M020** Fecal *Streptococcus* (Membrane Filtration)
- **M210-215** *Legionella* Detection
- **M026** Recreational Water Screen
- **M027** Mycotoxin Analysis
- **M029** *Enterococci*
- **M019** Fecal Coliform
- **M133** MRSA Analysis
- **M028** *Cryptococcus neoformans* Detection
- **M120** *Histoplasma capsulatum* Detection
- **M033-39** Allergen Testing
- **M044** Group Allergen (Cat, Dog, Cockroach, Dustmites)
- **Other** See Analytical Price Guide

Preservation Method (Water):

Name of Sampler: Kevin Bogue **Signature of Sampler:** Kevin Bogue

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Air	M001	75L	1/1/12 4:00 PM
20150108-22214-2319-MS1	exterior	AIR	M001	150 l	1/8/15 10:10-10:20
" MS2	Basement	↓	↓	↓	1/8/15 10:25-10:35
" MS3	Blank	↓	↓	↓	1/8/15 — 11:00

RECEIVED
JAN 13 2015
By 1/13/15

Client Sample # (s): MS1 - MS3 **Total # of Samples:** 3

Relinquished (Client): Kevin Bogue **Date:** 1/13/15 **Time:**

Received (Client): **Date:** **Time:**

Comments:

Page 1 of 1 pages

APPENDIX 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

APPENDIX 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:	241500141
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

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

Hamden, CT 06517

Project: **22214-2319**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	01/13/15 5:15 PM
Analysis Date:	1/16/2015
Collected:	1/8/2015

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**
20150108_222142319_S1A *241500141-0001*	Exterior foundation skim coat- white	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S1B *241500141-0002*	Exterior foundation skim coat- white	White Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S1C *241500141-0003*	Exterior foundation skim coat- white	White Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S2A *241500141-0004*	Exterior foundation base coat- grey	Brown/Gray Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S2B *241500141-0005*	Exterior foundation base coat- grey	Gray Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S2C *241500141-0006*	Exterior foundation base coat- grey	Gray Non-Fibrous Homogeneous			30% 70%	Quartz Non-fibrous (other)	**None Detected**
20150108_222142319_S3A *241500141-0007*	Basement fiberglass paper	Brown/Black Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**

Analyst(s)

Erin Guzowski (10)
Lauren Brennan (5)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0,

Initial report from 01/16/2015 15:07:19

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:	241500141
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

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

Hamden, CT 06517

Project: **22214-2319**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	01/13/15 5:15 PM
Analysis Date:	1/16/2015
Collected:	1/8/2015

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**
20150108_222142319_S3B *241500141-0008*	Basement fiberglass paper	Brown/Black Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**
20150108_222142319_S3C *241500141-0009*	Basement fiberglass paper	Brown Non-Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
20150108_222142319_S4A *241500141-0010*	Basement- white skim coat on chimney foundation	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S4B *241500141-0011*	Basement- white skim coat on chimney foundation	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S4C *241500141-0012*	Basement- white skim coat on chimney foundation	Brown Non-Fibrous Homogeneous	<1%	Glass	100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S5A *241500141-0013*	Basement chimney brick grout	Brown Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20150108_222142319_S5B *241500141-0014*	Basement chimney brick grout	Brown Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**

Analyst(s)

Erin Guzowski (10)
Lauren Brennan (5)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0,

Initial report from 01/16/2015 15:07:19

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:	241500141
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

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

Hamden, CT 06517

Project: **22214-2319**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	01/13/15 5:15 PM
Analysis Date:	1/16/2015
Collected:	1/8/2015

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**
20150108_222142319_S5C *241500141-0015*	Basement chimney brick grout	Gray Non-Fibrous Homogeneous	<1% <1%	Cellulose Glass	100%	Non-fibrous (other)	**None Detected**

Analyst(s)

Erin Guzowski (10)
Lauren Brennan (5)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0,

Initial report from 01/16/2015 15:07:19

THIS IS THE LAST PAGE OF THE REPORT.

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)*: 24150014

Company Name : Facilty Support Services, LLC		**EMSL Customer ID:**	
Street: 2685 State Street		**City:** Hamden	**State/Province:** CT
Zip/Postal Code: 06517	**Country:** United States	**Telephone #:** 203-288-1281	**Fax #:**
Report To (Name): Kevin Bogue		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: kbogue.fss@snet.net		**Purchase Order:**	
Project Name/Number: 22214 – 2319		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken: CT		**CT Samples:** ☐ Commercial/Taxable ☒ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

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)
- ☐ NYS 198.8 SOF-V
- ☐ 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

*Can not accept New York State Loose Fill Vermiculite Samples

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

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

Relinquished (Client): Kevin Bogue **Date:** **Time:**

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

Comments/Special Instructions:

RECEIVED
JAN 13 2015
By 17:15

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)*:

24150014

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
20150108_222142319_01A	exterior foundation skim coat - white	1	1/8/15
S1B	↓	1	↓
S1C	↓	1	↓
20150108_222142319_S2A	exterior foundation base coat - grey	2	↓
S2B	↓	2	↓
S2C	↓	2	↓
20150108_222142319_S3A	Basement fiberglass paper	3	↓
S3B	↓	3	↓
S3C	↓	3	↓
20150108_222142319_S4A	Basement - white skim coat on chimney foundation	4	↓
S4B	↓	4	↓
S4C	↓	4	↓
20150108_222142319_S5A	Basement chimney brick grout	5	↓
S5B	↓	5	↓
S5C	↓	5	↓

RECEIVED
JAN 13 2015
BY 17:15

***Comments/Special Instructions:**

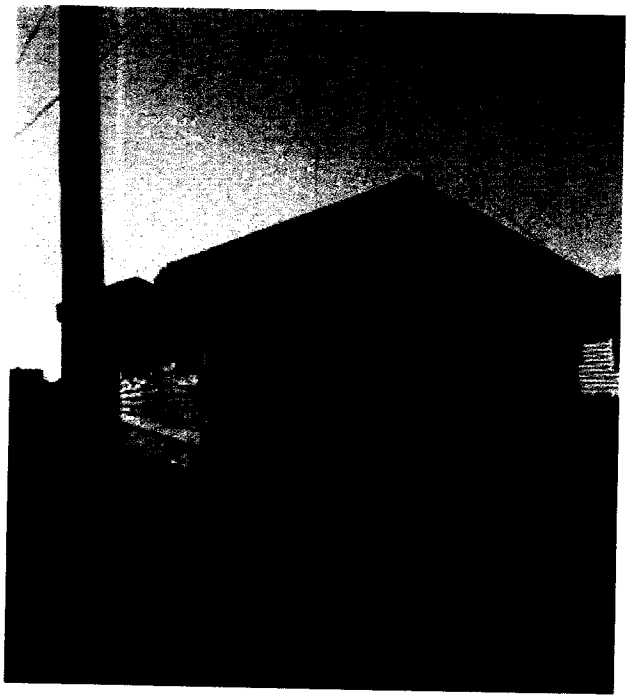
Controlled Document – Asbestos COC – R9 – 10/30/2014

APPENDIX D

LEAD REPORT

LEAD BASED PAINT INSPECTION
REPORT OF FINDINGS
OF:

39 MOREHOUSE AVENUE
MILFORD, CONNECTICUT



DATE:
January 8, 2015

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

GILBERTCO
LEAD INSPECTIONS, LLC

"LEAD BASED PAINT SPECIALIST"

January 8, 2015

Job 9928-010815

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

Re: Lead Based Paint Inspection: 39 Morehouse Avenue, Milford, Connecticut

Gilbertco Lead Inspections LLC performed a limited XRF inspection for the presence of lead based paint at 39 Morehouse Ave., Milford, Connecticut. The inspection was requested by Facility Support Services in response to planned elevation to the site by State of Connecticut Department of Housing Community Block Grant Disaster Recovery Program.

The site inspected consists of a single family, cape style home built about 1928. The home has been renovated through the years, including new unpainted wood windows. It was found to be in good repair and enjoys excellent housekeeping. We were met at the site by Kevin Bogue from Facility Support Services and Paul Lofgren from MCA, and the homeowner Victoria Stillings. There are no children under the age of six currently residing there.

In accordance with Manufacturers Performance Characteristic Sheet, the RMD LPA-1 - XRF spectrum analyzer was used in the "Quick" 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 0.9 mg/cm2 through 1.1 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

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

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.

In regards to the above mentioned property, *several 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..." (The Residential Lead Based Paint Hazard Reduction Act of 1992 – Title X). Residential properties receiving more than $25,000 in CDBG-DR assistance require abatement of lead based paint hazards.

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). As with any lead-containing surface, children should not be allowed to chew or mouth painted surfaces as this is a common source of lead poisoning in children.

Please feel free to call if any questions arise,

Maureen Monaco

Maureen Monaco
Director of Operations
Consultant Contractor #270
Lead Inspector Risk Assessor #1172
Lead Abatement Supervisor #2383

CERTIFICATION
LEAD IN PAINT RESULTS

AGENCY:	GILBERTCO LEAD INSPECTIONS LLC 287 MAIN STREET ANSONIA, CONNECTICUT 06401
PROJECT ADDRESS:	39 MOREHOUSE AVENUE MILFORD, CONNECTICUT
PROJECT NUMBER:	010085
TEST DATE:	JANUARY 8, 2015
REQUIREMENTS:	CHAPTER 7 HUD GUIDELINES LEAD INSPECTION- SURFACE BY SURFACE
INSTRUMENTATION:	PROTEC RMD LPA-1 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

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.

Maurice Monroe _____ _____

39 Morehouse Avenue, Milford, Connecticut
January 8, 2015

Reading	Room #	Room	Side	Component	Condition	Substrate	mg/cm2	Decision
1	999	Calibration					1	okay
2	999	Calibration					1	okay
3	1	Living Rm	1	Door	Intact	Wood	0	Negative
4	1	Living Rm	1	Door Casing	Intact	Wood	0.2	Negative
5	1	Living Rm	1	Wall	Intact	Dry wall	-0.2	Negative
6	1	Living Rm	1	Window Sash	Intact	Wood	0	Negative
7	1	Living Rm	1	Window Trim	Intact	Wood	0.1	Negative
8	1	Living Rm	1	Baseboard	Intact	Wood	0	Negative
9	1	Living Rm	1	Ceiling	Intact	Dry wall	0.1	Negative
10	1	Living Rm	1	Floor	Intact	Wood	0	Negative
11	1	Living Rm	2	Wall	Intact	Dry wall	-0.1	Negative
12	1	Living Rm	3	Wall	Intact	Dry wall	-0.1	Negative
13	1	Living Rm	3	Baseboard	Intact	Wood	0.1	Negative
14	1	Living Rm	4	Wall	Intact	Dry wall	-0.3	Negative
15	2	Kitchen	1	Wall	Intact	Dry wall	-0.2	Negative
16	2	Kitchen	2	Wall	Intact	Dry wall	-0.3	Negative
17	2	Kitchen	4	Wall	Intact	Dry wall	0.1	Negative
18	2	Kitchen	3	Wall	Intact	Dry wall	0	Negative
19	2	Kitchen	3	Ceiling	Intact	Dry wall	-0.1	Negative
20	2	Kitchen	2	Cabinet	Intact	Wood	-0.4	Negative
21	2	Kitchen	4	Window Sill	Intact	Wood	0	Negative
22	2	Kitchen	4	Window Trim	Intact	Wood	-0.1	Negative
23	2	Kitchen	4	Door	Intact	Wood	-0.1	Negative
24	2	Kitchen	4	Door Casing	Intact	Wood	0.3	Negative
25	2	Kitchen	3	Door Casing	Intact	Wood	0.1	Negative
26	3	Bedroom	1	Door	Intact	Wood	-0.1	Negative
27	3	Bedroom	1	Door Casing	Intact	Wood	-0.2	Negative
28	3	Bedroom	1	Wall	Intact	Dry wall	-0.4	Negative
29	3	Bedroom	2	Wall	Intact	Dry wall	-0.1	Negative
30	3	Bedroom	3	Wall	Intact	Dry wall	-0.3	Negative
31	3	Bedroom	4	Wall	Intact	Dry wall	-0.1	Negative
32	3	Bedroom	4	Ceiling	Intact	Dry wall	-0.2	Negative
33	3	Bedroom	1	Closet Door	Intact	Wood	-0.1	Negative
34	3	Bedroom	1	Clo Dr Csng	Intact	Wood	0	Negative
35	3	Bedroom	4	Window Trim	Intact	Wood	0.3	Negative
36	3	Bedroom	4	Window Sash	Intact	Wood	0	Negative
37	3	Bedroom	3	Door	Intact	Wood	-0.1	Negative
38	3	Bedroom	3	Door Casing	Intact	Wood	-0.1	Negative
39	3	Bedroom	3	Floor	Intact	Wood	-0.1	Negative
40	4	Bathroom	4	Door	Intact	Wood	0	Negative
41	4	Bathroom	4	Door Casing	Intact	Wood	0.1	Negative

42	4	Bathroom	4	Wall	Intact	Dry wall	-0.3	Negative
43	4	Bathroom	3	Wall	Intact	Dry wall	0	Negative
44	4	Bathroom	2	Wall	Intact	Dry wall	-0.2	Negative
45	4	Bathroom	2	Ceiling	Intact	Dry wall	0	Negative
46	4	Bathroom	2	Window Sash	Intact	Wood	0.1	Negative
47	4	Bathroom	2	Window Trim	Intact	Wood	-0.1	Negative
48	4	Bathroom	2	Baseboard	Intact	Wood	0	Negative
49	4	Bathroom	2	Cabinet	Intact	Wood	-0.2	Negative
50	4	Bathroom	2	Ceiling	Intact	Dry wall	-0.2	Negative
				Note-Wall 1 tiled				
51	5	Bedroom	3	Door	Intact	Wood	0.1	Negative
52	5	Bedroom	3	Door Jamb	Intact	Wood	0	Negative
53	5	Bedroom	3	Door Casing	Intact	Wood	-0.1	Negative
54	5	Bedroom	4	Wall	Intact	Dry wall	-0.1	Negative
55	5	Bedroom	1	Wall	Intact	Dry wall	0	Negative
56	5	Bedroom	2	Wall	Intact	Dry wall	-0.3	Negative
57	5	Bedroom	2	Ceiling	Intact	Dry wall	-0.1	Negative
58	5	Bedroom	4	Closet Door	Intact	Wood	-0.1	Negative
59	5	Bedroom	4	Clo Dr Csng	Intact	Wood	-0.3	Negative
60	5	Bedroom	4	Clsoet Shelf	Intact	Wood	-0.2	Negative
61	5	Bedroom	4	Clo Shelf Support	Intact	Wood	-0.3	Negative
62	5	Bedroom	1	Baseboard	Intact	Wood	-0.1	Negative
63	5	Bedroom	2	Window Sash	Intact	Wood	0	Negative
64	5	Bedroom	2	Window Trim	Intact	Wood	0	Negative
65	5	Bedroom	2	Floor	Intact	Wood	0.2	Negative
66	5	Bedroom	2	Ceiling	Intact	Dry wall	0	Negative
67	6	Exterior	1	Door	Intact	Wood	-0.2	Negative
68	6	Exterior	1	Door Jamb	Intact	Wood	-0.1	Negative
69	6	Exterior	1	Door Casing	Intact	Wood	0.1	Negative
70	6	Exterior	1	Overhang	Intact	Wood	9.9	Positive
71	6	Exterior	1	Transom	Intact	Wood	9.9	Positive
72	6	Exterior	1	Column	Intact	Wood	0.1	Negative
73	6	Exterior	1	Railing	Intact	Wood	-0.1	Negative
74	6	Exterior	1	Porch Floor	Intact	Wood	0.1	Negative
75	6	Exterior	1	Wall-clapboard	Intact	Wood	9.9	Positive
76	6	Exterior	1	Window Trim	Intact	Wood	0	Negative
77	6	Exterior	1	Foundation Wall	Defective	Cement	0.1	Negative
78	6	Exterior	1	Bottom trim	Defective	Wood	0.1	Negative
79	6	Exterior	2	Wall -clapboard	Intact	Wood	9.9	Positive
80	6	Exterior	2	Foundation Wall	Defective	Cement	0.2	Negative
81	6	Exterior	4	Wall -clapboard	Defective	Wood	9.9	Positive
82	6	Exterior	4	Foundation Wall	Defective	Cement	0.2	Negative
83	6	Exterior	4	trim	Intact	Wood	0	Negative
84	6	Exterior	4	Window Trim	Intact	Wood	0.1	Negative
85	6	Exterior	4	Wall -clapboard	Defective	Wood	9.9	Positive

86	6	Exterior	4	Side Door	Intact	Wood	-0.2	Negative
87	6	Exterior	4	Door Jamb	Defective	Wood	0.2	Negative
88	6	Exterior	4	Kickplate	Intact	Wood	0	Negative
89	6	Exterior	4	Overhang/soffit	Defective	Wood	9.9	Positive
90	6	Exterior	4	trim	Defective	Wood	0.2	Negative
91	6	Exterior	3	Wall under clapboar	Defective	Wood	0	Negative
92	6	Exterior	3	Foundation Wall	Defective	Cement	0.4	Negative
93	6	Exterior	3	Stair Tread	Defective	Wood	0	Negative
94	6	Exterior	3	Stair Stringer	Defective	Wood	-0.1	Negative
95	6	Exterior	3	Floor	Defective	Wood	0	Negative
96	6	Exterior	3	Wall -clapboard	Defective	Wood	9.9	Positive