



# Hazardous Building Materials Survey Report

Residential Property

1 Joy Place

Portland, Maine



*Prepared for:*

**Renewal Housing**

**Associates, LLC**

**3 Carroll Street**

**Portland, Maine 04102**

**June 23, 2014**

*In Reference to:*

**Project No. 14001246**

*Submitted by:*

**Crede Associates, LLC**

776 Main Street

Westbrook, Maine 04092

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## 1. INTRODUCTION

This report presents the results of a Hazardous Building Materials Survey that was completed for the residential property located at 1 Joy Place in Portland, Maine (the Site) on June 5, 2014. The location of the Site can be referenced on **Figure 1**.

This survey was designed to include:

- An asbestos-containing materials (ACM) survey
- Limited sampling to identify potential polychlorinated biphenyl (PCB)-containing building materials
- A lead-based paint (LBP) screening
- A universal and hazardous waste inventory

The survey methodology and results are presented in the following sections.

## 2. ASBESTOS-CONTAINING MATERIALS SURVEY

This assessment was conducted by Judd Newcomb of Credere, a Maine certified Asbestos Inspector (Cert. No. AI-0608). All work was conducted in accordance with the Maine Department of Environmental Protection (Maine DEP) Chapter 425: Asbestos Management Regulations (Chapter 425). Mr. Newcomb's asbestos inspector certification documentation is included in **Appendix A**.

The purpose of this survey was to identify ACM within or on the Site buildings, as defined in Chapter 425 and in accordance with the Maine DEP disclosure forms provided to you and signed during the inspection (**Appendix B**). Maine DEP Chapter 425 requires the following sampling methodology be used during an inspection:

(a) From Surfacing Material:

- (i) 3 bulk samples from each homogenous area and/or material that is 1,000 square feet or less;
- (ii) 5 bulk samples from each homogenous area that is greater than 1,000 square feet but less than or equal to 5000 square feet; or
- (iii) 7 bulk samples from each homogenous area that is greater than 5,000 square feet.

(b) From Thermal System Insulation:

- (i) 3 bulk samples from each homogenous area;



(ii) 1 bulk sample from each homogenous area of patched thermal system insulation if the patched section is less than 6 linear or square feet; and

(iii) Samples sufficient to determine whether the material is ACM from each insulated mechanical system where cement is utilized on tees, elbows, or valves.

(c) From Miscellaneous ACM:

(i) 3 samples from each miscellaneous material; and

(ii) 1 sample if the amount of miscellaneous material is less than 6 square or linear feet.

Typical types of suspect materials encountered during surveys include, but are not limited to, the following:

- Sprayed or Troweled Surfacing Materials (i.e. plasters or grouts)
- Fire-proofing
- Thermal Insulation Systems (e.g. pipe wrap, mudded fittings, boiler gaskets)
- Floor Tiles or Floor Sheeting
- Ceiling Tiles
- Cement Board (Transite) or Pipes
- Mastics, Glazes, and Caulks

To meet Chapter 425 methodology, Credere performed a visual inspection of each accessible area (room or other functional unit) of the Site buildings. Credere personnel then inventoried potential ACM in each area of the buildings, and recorded the approximate amount (e.g. area, length, volume, pipe diameter, etc.) of each type of suspected ACM. Three bulk samples of each type of homogenous suspected ACM in each area were collected and submitted for laboratory analysis at EMSL Analytical, Inc., of South Portland, Maine. Each suspect material from each area was designated with a unique sample identification code, with the suffixes A, B, C added for multiple randomly selected discrete samples of each material.

Based on the quantities/volumes of suspect materials observed, three (3) randomly selected discrete samples were collected from each miscellaneous suspected ACM. Suspect ACM materials that were sampled are identified below in **Table 1**. It should be noted that roofing samples were collected from the collapsed portion of the Site building, and based on information provided by the Site owner, all roofing systems were identical and had been replaced collectively. Representative photographs of the Site buildings are included in **Appendix C**.



Table 1 - Sampled Suspect Asbestos Containing Materials		
Sample ID	Area	Material Description
EXT-0	Exterior upper siding	Red asphalt shingle
EXT-1		Black felt paper
EXT-2	Exterior lower siding	Tan asphalt shingle (note some siding is painted lime)
EXT-3		Black felt paper
EXT-4	Roof (upper layer)	Black asphalt shingle
EXT-5	Roof (lower layer)	Gray asphalt shingle
EXT-6	Garage siding	Brown asphalt shingle
EXT-7		Black felt paper
LI-1	Left unit interior wall (representative of left and right unit foyers)	White plaster skim coat
LI-2		Plaster on lathe wall material
LI-3	Left unit interior ceiling	White plaster skim coat
RI-1	Right unit (representative of whole building) wiring	Outer electrical wire insulation (black)
RI-2		Inner electrical wire insulation (black)
RI-3	Right unit interior kitchen	Ceiling tile

Based on the laboratory results, no materials were identified as ACMs. Laboratory reports for the analysis of Site samples are included as **Appendix D**.

### 3. LIMITED PCB SAMPLING

Certain building materials utilized within buildings that were constructed, maintained, renovated, or updated between approximately 1930 and 1980 have the potential to be manufactured with PCBs at such levels that would classify them as PCB bulk product waste as defined in 40 CFR 761.3. Once identified, PCB bulk product waste is regulated for disposal in accordance with 40 CFR 761.62. Target materials that frequently contain PCBs include exterior caulking on window and door systems, expansion joints, durable floor coatings, mastics, and certain types of paints.

Crederre surveyed the Site building for potential PCB-containing building materials and **Table 2** summarizes the samples collected from suspect PCB-containing building materials identified at the Site. Each sample was submitted to Absolute Resource Associates (ARA) of Portsmouth, New Hampshire for analysis of PCBs by EPA Method 8082 with Soxhlet extraction method 3540C. Laboratory analytical results are summarized in **Table 2** below. A copy of the analytical reports for the PCB-containing materials samples is included in **Appendix E**.



<b>Table 2 – Summary of PCB Sample Results</b>			
<b>Sample ID</b>	<b>Area</b>	<b>Material Description</b>	<b>Total PCB Results (mg/kg)</b>
BM-1	Left unit, second floor living room windows	White caulk	ND<0.7
BM-2	Left unit, second floor living room ceiling	White paint, curling/peeling	<b>1.2</b>
BM-3	Exterior clapboards, building entrance	Green paint, curling/peeling	ND<0.7
BM-4	Right unit, second floor living room walls	Yellow wall paint, curling/peeling	<b>1.8</b>

ND<0.7 – Sample result below laboratory reporting limit

**Bold** – sample result above laboratory reporting limit

Based on these sample results, no samples contained total concentrations of PCBs that exceed the EPA’s bulk product waste threshold of 50 mg/kg. Samples BM-2 and BM-4 contained total PCBs at a concentration of greater than 1 mg/kg but less than 50 mg/kg. This material meets the definition of an excluded PCB product as defined by 40 CFR 761.3. Although not regulated for removal, if this material (i.e. the yellow wall or white ceiling paint) is removed from use (e.g. demolition), it must be disposed of at a facility that is licensed to accept non-Toxic Substances Control Act (non-TSCA) regulated PCB-containing materials at their at-found concentrations.

#### 4. LEAD-BASED PAINT SCREENING

Credero screened painted surfaces in and on the Site building for lead content using an X-ray fluorescence (XRF) meter. LBP is defined by Maine DEP Chapter 424 – Lead Management Rules (Chapter 424) as paint with a lead concentration of 1.0 mg/cm<sup>2</sup> or greater. Additionally, lower concentrations of lead in paint should be considered in regards to health and safety for contractors engaging in work disturbing this paint.

Based on this screening, LBP was identified on most surfaces within the residential building. It should be noted that no painted surfaces were identified within the garage building. Descriptions and locations of all painted surfaces that were inspected and the results of the inspection are summarized below in **Table 3**.



Table 3 - Lead-Based Paint Screening Results				
Room/Location	Component	Substrate	Color	Lead Concentration (mg/cm <sup>2</sup> )
Exterior	Shingle	Asphalt	Lime	0.07
	<b>Trim</b>	<b>Wood</b>	<b>White</b>	<b>5.0</b>
	Shingle	Asphalt	Gray	0.98
	<b>Trim</b>	<b>Wood</b>	<b>Green</b>	<b>5.0</b>
Left unit foyer/living room (1 <sup>st</sup> floor)	<b>Stair riser</b>	<b>Wood</b>	<b>Red</b>	<b>5.0</b>
	Ceiling	Plaster	White	0.02
	<b>Trim</b>	<b>Wood</b>	<b>White</b>	<b>5.0</b>
	Wall	Plaster	White	0.0
Left unit stairwell	<b>Door</b>	<b>Wood</b>	<b>Red</b>	<b>5.0</b>
	<b>Trim</b>	<b>Wood</b>	<b>Tan</b>	<b>5.0</b>
	<b>Floor</b>	<b>Wood</b>	<b>Green</b>	<b>5.0</b>
Left unit 2 <sup>nd</sup> floor bathroom	Wall	Plaster	White	0.0
	Wanes coating	Wood	Blue	0.1
Left unit 2 <sup>nd</sup> floor hallway	Trim	Wood	Yellow	0.07
	<b>Door</b>	<b>Wood</b>	<b>Brown</b>	<b>5.0</b>
Left unit 3 <sup>rd</sup> floor bedroom	<b>Trim</b>	<b>Wood</b>	<b>Cream</b>	<b>5.0</b>
	<b>Trim</b>	<b>Wood</b>	<b>White/tan</b>	<b>5.0</b>
Right unit foyer/stairwell	Ceiling	Plaster	Gray	0.0
	<b>Trim/wall</b>	<b>Wood/plaster</b>	<b>Pink</b>	<b>5.0</b>
	<b>Stair Riser</b>	<b>Wood</b>	<b>Brown</b>	<b>5.0</b>
	Ceiling	Plaster	White	0.03
	<b>Trim/walls</b>	<b>Wood/Plaster</b>	<b>Brown</b>	<b>5.0</b>
Right unit 1 <sup>st</sup> floor living room	<b>Stair</b>	<b>Wood</b>	<b>Gray</b>	<b>5.0</b>
	<b>Trim</b>	<b>Wood</b>	<b>Black</b>	<b>5.0</b>
Right unit 1 <sup>st</sup> floor kitchen	Ceiling	Plaster	White	0.02
Right unit 1 <sup>st</sup> floor bathroom	<b>Trim/doors</b>	<b>Wood</b>	<b>White</b>	<b>5.0</b>
Right unit 1 <sup>st</sup> floor bathroom	Wanes	Wood	Green	0.24
Right unit Stairwell (basement)	Ceiling	Plaster	White	0.0



Table 3 - Lead-Based Paint Screening Results				
Room/Location	Component	Substrate	Color	Lead Concentration (mg/cm <sup>2</sup> )
	<b>Trim</b>	<b>Wood</b>	<b>Tan</b>	<b>5.0</b>
Right unit 2 <sup>nd</sup> floor living room	Wall	Plaster	Yellow	0.03
	<b>Trim/doors</b>	<b>Wood</b>	<b>White</b>	<b>5.0</b>
	Ceiling	Plaster	Gray	0.0
Right unit second floor bedroom	Wall	Plaster	Off-white	0.0
Right unit 3 <sup>rd</sup> floor hallway and bedrooms	<b>Trim</b>	<b>Wood</b>	<b>Gray</b>	<b>5.0</b>
	<b>Trim</b>	<b>Wood</b>	<b>Tan</b>	<b>5.0</b>
	Ceiling	Plaster	White	0.0
	<b>Floor</b>	<b>Wood</b>	<b>Gray</b>	<b>4.6</b>
	<b>Trim/door</b>	<b>Wood</b>	<b>Brown</b>	<b>3.3</b>

**Red highlighted bold text** – Indicated positive result for lead-based paint

**Yellow highlighted text** – Indicated paint assumed to be lead-based as result within instrument inconclusive range

## 5. UNIVERSAL AND HAZARDOUS WASTE INVENTORY

Credeire inspected the Site building for the presence of universal and hazardous wastes that may be generated during future renovation/demolition activities. **Table 4** summarizes universal and/or hazardous wastes that were identified at the Site.

Table 4 – Universal/Hazardous Waste Inventory Results		
Type of Material	Location	Quantity
CRTs (e.g. televisions)	Outside	2
Miscellaneous consumable quantities of paints/cleaners	Basement	Approx. 12
Fluorescent light fixtures	Basement	3

No other potential universal or hazardous wastes were identified within the surveyed areas of the Site; however, it should be noted that additional wastes may be present within the collapsed portions of the buildings.



## 6. RECOMMENDATIONS

Based on the results of this investigation, Credere makes the following recommendations for the Site:

- Prior to or concurrent with building renovation or demolition activities, Credere recommends that all LBP be properly managed in accordance with the Occupational Health & Safety Administration (OSHA) Lead in Construction Standard. Additionally, Credere recommends that LBP management work practices be consistent with those described in Maine DEP Chapter 424 to ensure that no lead hazards are present at the Site at the end of demolition activities. Due to the identification of lead-based paint in poor condition on the exterior of the building, Credere further recommends that the potential for soil to have been contaminated by lead-based paint around the building perimeter be assessed during and after the Site redevelopment in accordance with Maine DEP requirements and the OSHA Lead in Construction Standard.
- Prior to or during building renovation or demolition activities, Credere recommends that all demolition waste that may contain non-TSCA regulated at-found concentrations of PCBs be properly characterized for disposal or recycling at an appropriately licensed facility.
- All universal and hazardous wastes should be properly consolidated for disposal as universal waste prior to or concurrent with building renovation and/or demolition.

## 7. LIMITATIONS

This report has been prepared as part of a contract agreement between Credere and the Client. This agreement was established in order to provide the Client with information upon which it can rely concerning the existence or likely existence of ACM, PCB-containing building materials, LBP, and potential universal and/or hazardous waste at the Site. This report does not reflect:

- Conditions in inaccessible and/or otherwise untested areas
- Variations in chemical concentrations that can occur between sample locations
- The potential presence of analytes that were not analyzed for or that may be present below the Practical Quantification Limits for the analytical method
- The conditions of soil, groundwater, and/or surface water other than those sampled
- Variations in conditions that occurred at a time other than when the Site inspection was completed

In the event that any conditions different from those described herein are encountered at a later time, Credere Associates, LLC requests an opportunity to review such differences and modify the assessment and conclusions of this report. This report was prepared expressly for the purpose described. The information in this report may not be suitable for any other use without adaptation for the specific purpose intended. Any such reuse of this report, without adaptation, shall be at the sole risk and liability of the party undertaking the reuse.



The ACM survey portion of this project was completed in accordance with all relevant, applicable, and appropriate standards and was performed by exercising the degree of care and skill ordinarily exercised by a duly qualified or Certified Asbestos Inspector. However, there is a possibility that hidden, inaccessible, or otherwise unassessed ACM may exist at the Site. If suspect ACM is identified during any future Site operations including maintenance, renovations, housekeeping, or general demolition, the party performing these activities should first refer to this report. If conclusive results cannot be obtained, additional sampling and analysis must be conducted by a duly qualified or Certified Asbestos Inspector prior to the initiation of any activities that may impact or in any way disturb potential unassessed ACM.

The LBP screening was not intended to determine the suitability of the buildings for residential or child-occupied uses, or to assess the risk associated with LBP on the Site. If the Site building is to be used in the future as residences or child-occupied facilities, a formal lead inspection of the Site should be conducted in accordance with Maine DEP Chapter 424 – Lead Management Rules.





- Site Boundary
- Inferred groundwater flow direction

## Figure 1 – Site Plan

1 Joy Place/Brackett Street  
Portland, Maine



**Credere Associates, LLC**

776 MAIN STREET  
WESTBROOK, MAINE  
Tel. 207.828.1272  
Fax 207.887.1051  
WWW.CREDERELLC.COM

**Appendix A**  
**Asbestos Inspector Certification Documents**



State of Maine  
Asbestos Abatement Program

Judd R. Newcomb



**Inspector**

Cert No. AI-0608

Trn. Exp. Date 03/21/2015

Expiration Date 03/31/2015

This is not a legal form of official identification





STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE  
GOVERNOR

PATRICIA W. AHO  
COMMISSIONER

January 23, 2014

**Upgrade in Services**

Attn.: Robert Patten, Vice President  
**Credere Associates, LLC**  
776 Main Street  
Westbrook, Maine 04092

Dear Mr. Patten:

This letter is in reference to your application for licensure as an **Asbestos Consultant (Inspection and Monitoring)**.

This office has received and completed the review of your application and finds it to be in accordance with the requirements of Maine Asbestos Management Regulations Chapter 425, effective April 3, 2011.

Your application has been approved and your firm is licensed to provide asbestos consulting service(s) as described on the enclosed certificate.

Your renewal license number remains at **SIM-0114** which is in effect for one year and will expire on June 30, 2014. A renewal application should be filed not less than thirty (30) days prior to expiration of this licensure. Thank you for your continued service to the people of the State of Maine.

If you have any questions please call me at (207) 287-7751.

Sincerely,

Sandra J. Moody, Environmental Technician  
Division of Remediation  
Bureau of Remediation and Waste Management

Enclosure

AUGUSTA  
17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
(207) 287-7688 FAX: (207) 287-7826  
RAY BLDG., HOSPITAL ST.

BANGOR  
106 HOGAN ROAD, SUITE 6  
BANGOR, MAINE 04401  
(207) 941-4570 FAX: (207) 941-4584

PORTLAND  
312 CANCO ROAD  
PORTLAND, MAINE 04103  
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE  
1235 CENTRAL DRIVE, SKYWAY PARK  
PRESQUE ISLE, MAINE 04679-2094  
(207) 764-0477 FAX: (207) 760-3143



State of Maine  
Department of Environmental Protection

**LICENSE**

**Credere Associates, LLC**

**Asbestos Consultant**  
**(Inspection & Monitoring)**

**License Number: SIM-0114**

**Expiration Date: 06/30/2014**

**Appendix B**  
**Maine DEP Disclosure Forms**





**Asbestos Bulk Sampling Protocols and Disclosure**

State of Maine  
Department of Environmental Protection  
Lead & Asbestos Hazard Prevention Program  
17 State House Station, Augusta, ME 04333  
TEL (207) 287-2651 FAX (207) 287-6220

**FORM X**  
Page 1 of 1  
2011

**Asbestos Bulk Sampling**

Bulk samples must be collected by a Department-certified Inspector in a random manner such that they are representative of each homogenous area. Bulk samples shall be collected and analyzed for all asbestos abatement activities unless an approved disclosure is received by the owner or owner's agent from the operator prior to the start of the project.

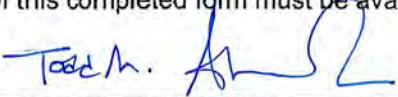
An asbestos consultant may implement an alternative sampling protocol that collects more but not less than the number of samples per homogeneous area, provided the asbestos consultant has informed the building owner or owner's agent of the standard sampling protocol set forth below prior to the sampling event. The asbestos consultant must document that the building owner or owner's agent received information regarding the standard sampling protocol set forth in this section by obtaining the building owner's or owner's agent's signature on a statement acknowledging receipt of the information before the sampling event begins.

**Standard Sampling Protocol**

- Surfacing Material: 3 bulk samples from each homogenous area and/or material that is 1,000 square feet or less. 5 bulk samples from each homogenous area that is greater than 1,000 square feet but less than or equal to 5000 square feet. 7 bulk samples from each homogenous area that is greater than 5,000 square feet.
- Thermal System Insulation: 3 bulk samples from each homogenous area. 1 bulk sample from each homogenous area of patched thermal system insulation if the patched section is less than 6 linear or square feet. Samples sufficient to determine whether the material is ACM from each insulated mechanical system where cement is utilized on tees, elbows, or valves.
- Miscellaneous ACM: 3 samples from each miscellaneous material. 1 sample if the amount of miscellaneous material is less than 6 square or linear feet.

**Asbestos Bulk Sampling Disclosure**

I have reviewed and understand the Standard Sampling Protocol and any benefits and associated costs of an Alternative Sampling Protocol with \_\_\_\_\_, a Maine licensed Asbestos Consultant. I also understand that a copy of this completed form must be available upon request by the MDEP.



Signature (Building Owner/Agent)

Print Name **TODD M. ALEXANDER**

Date **6/5/14**

**Facility Location (where bulk sampling is to take place)**

BLDG Name **1 JOY PLACE**  
Physical Address City **PORTLAND, ME**  
Floor and/or Rm.# **WHOLE BUILDINGS**

**Asbestos Bulk  
Sample Analysis  
Protocols and  
Disclosure**

State of Maine  
Department of Environmental Protection  
Lead & Asbestos Hazard Prevention Program  
17 State House Station, Augusta, ME 04333  
TEL (207) 287-2651 FAX (207) 287-6220

**FORM  
Y**  
Page 1 of 2  
2011

**Bulk Sample Analysis**

Bulk samples collected must be analyzed by a Department-licensed Asbestos Analytical Laboratory. Bulk samples shall be analyzed until a positive result is obtained or all samples have been analyzed. Reanalysis is not required if the sample result is less than 1%. Wherever there is a suspect asbestos-containing material and a mastic/adhesive affixed to that material, the mastic/adhesive shall be analyzed and reported separately from the suspect asbestos-containing material.

**Standard Analytical Methods**

- Surfacing Materials, Thermal System Insulation and Cementitious Materials: PLM-EPA 600/R-93/116 visual estimation method (1993).
- Non-friable Organically Bound Materials (NOB): PLM NOB-EPA 600/R-93/116 with gravimetric preparation method. (including but not limited to floor tiles, asphalt shingles, caulking, glazing, mastics, coatings, sealants, adhesives and glues)

**Alternative Analytical Methods**

- Surfacing Materials and Thermal System Insulation: PLM EPA/600/R-93/116 (200 Point Count); PLM EPA/600/R-93/116 (400 Point Count); or PLM EPA/600/R-93/116 (1000 Point Count). May be used whenever the asbestos analytical laboratory has reported friable bulk samples with an asbestos content of less than 10% using the standard visual estimation.
- Surfacing Materials, Thermal System Insulation and Cementitious Materials: EPA 600/R-93/116 section 2.5.5.2 (TEM % by Mass). May be used whenever the asbestos analytical laboratory has determined it is not feasible or appropriate to have bulk sample(s) analyzed using the standard visual estimation.
- Non-friable Organically Bound Materials (NOB): PLM EPA/600/R-93/116 (200 Point Count); PLM EPA/600/R-93/116 (400 Point Count); or PLM EPA/600/R-93/116 (1000 Point Count). May be used whenever the asbestos analytical laboratory has reported an NOB sample with an asbestos content of less than 10% using the standard visual estimation.
- Non-friable Organically Bound Materials (NOB): TEM EPA NOB EPA/600/R-93/116b section 2.5, and TEM Chatfield method. May be used whenever the asbestos analytical laboratory has determined it is not feasible or appropriate to have bulk sample(s) analyzed using the standard visual estimation.

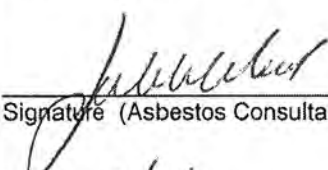
**Important Notice**


An analytical laboratory may use TEM, or other Department-approved analytical method, for bulk sample rather than the standard PLM analytical method. The Asbestos Consultant that collected the bulk samples for the building owner must document that the building owner or owner's agent received information regarding the standard analytical protocol set forth in the rule by obtaining the building owner's or owner's agent's signature on a statement acknowledging receipt of the information before the alternative analytical methods are employed.

## Asbestos Bulk Sample Analysis Disclosure

**Asbestos Consultant**

I have reviewed the Standard Analytical Protocols with the building owner/agent. I have also advised the building owner or the building owner's agent that whenever the asbestos analytical laboratory has determined it is not feasible or appropriate to have bulk sample(s) of suspect asbestos-containing surfacing materials analyzed using the standard method, the building owner or the building owner's agent may then either elect to treat the suspect bulk material(s) as asbestos-containing with no further analysis required, or may consent to the use of an alternative analytical method to determine whether the suspect bulk sample(s) is asbestos-containing. I also understand that a copy of this completed form must be available upon request at the asbestos project site.

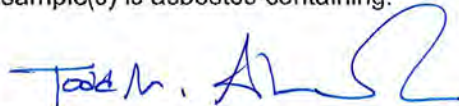
  
 Signature (Asbestos Consultant)


  
 Print Name

Date 6/5/14

**Building Owner/Agent**

I have reviewed the Asbestos Bulk Sample Analysis Protocols with the above Asbestos Consultant. I further understand that whenever the asbestos analytical laboratory has determined it is not feasible or appropriate to have bulk sample(s) of suspect asbestos-containing surfacing materials analyzed using the standard method, I may then either elect to treat the suspect bulk material(s) as asbestos-containing with no further analysis required, or may consent to the use of an alternative analytical method to determine whether the suspect bulk sample(s) is asbestos-containing.

  
 Signature (Building Owner/Agent)

  
 Print Name

Date 6/5/14

**Facility Location(where bulk samples were collected)**

BLDG Name 1 JOY PLACE  
 Physical Address            City PORTLAND, ME  
 Floor and/or Rm.#            WHITE BUILDING

## **Appendix C**

### **Site Photographs**



Site Reconnaissance Photo Log  
1 Joy Place  
Portland, Maine



1. Image showing the Site residential building, view facing north.



2. Image showing the Site residential building, view facing east.



3. Image showing the Site residential building.



4. Image showing the Site residential building, view facing west.

Site Reconnaissance Photo Log  
1 Joy Place  
Portland, Maine



5. Image showing the dilapidated shed/garage, view facing northwest.



6. Image showing the dilapidated shed/garage.



7. Image showing the dilapidated shed/garage.



8. Image showing the concrete and wood former barn foundation at the Site, view facing northeast.

Site Reconnaissance Photo Log  
1 Joy Place  
Portland, Maine



9. Image showing debris at the Site including abundant trash, televisions, and furniture.



10. Image showing debris behind the residential building.



11. Image showing wood debris at the Site.

**Appendix D**  
**Asbestos Laboratory Reports**







# EMSL Analytical, Inc.

161 John Roberts Road South Portland, ME 04106  
Phone/Fax: (207) 517-6921 / (207) 517-6922  
<http://www.EMSL.com> / [portlandlab@emsl.com](mailto:portlandlab@emsl.com)

EMSL Order ID: 621400600  
Customer ID: CRED25  
Customer PO: 14001246  
Project ID:

**Attn:** Judd Newcomb  
Crede Associates, LLC  
776 Main Street  
Westbrook, ME 04092  
**Phone:** (204) 828-1272  
**Fax:** (207) 887-1051  
**Collected:** 6/ 5/2014  
**Received:** 6/05/2014  
**Analyzed:** 6/09/2014  
**Proj:** 1 JOY PLACE / 14001246

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** EXT-O-A **Lab Sample ID:** 621400600-0001

**Sample Description:** UPPER SIDING/RED ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Red /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-0-B **Lab Sample ID:** 621400600-0002

**Sample Description:** UPPER SIDING/RED ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Red /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-0-C **Lab Sample ID:** 621400600-0003

**Sample Description:** UPPER SIDING/RED ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Red /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-1-A **Lab Sample ID:** 621400600-0004

**Sample Description:** UPPER SIDING/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** EXT-1-B **Lab Sample ID:** 621400600-0005

**Sample Description:** UPPER SIDING/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** EXT-1-C **Lab Sample ID:** 621400600-0006

**Sample Description:** UPPER SIDING/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	<0.25% Chrysotile	

**Client Sample ID:** EXT-2-A **Lab Sample ID:** 621400600-0007

**Sample Description:** LOWER SIDING/TAN ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Tan /Black	0.0%	100%	None Detected	



# EMSL Analytical, Inc.

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<http://www.EMSL.com> / [portlandlab@emsl.com](mailto:portlandlab@emsl.com)

EMSL Order ID: 621400600  
Customer ID: CRED25  
Customer PO: 14001246  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** EXT-2-B **Lab Sample ID:** 621400600-0008  
**Sample Description:** LOWER SIDING/TAN ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Tan /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-2-C **Lab Sample ID:** 621400600-0009  
**Sample Description:** LOWER SIDING/TAN ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Tan /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-3-A **Lab Sample ID:** 621400600-0010  
**Sample Description:** LOWER SIDING/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-3-B **Lab Sample ID:** 621400600-0011  
**Sample Description:** LOWER SIDING/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-3-C **Lab Sample ID:** 621400600-0012  
**Sample Description:** LOWER SIDING/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-4-A **Lab Sample ID:** 621400600-0013  
**Sample Description:** ROOF (UPPER LAYER)/BLACK ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-4-B **Lab Sample ID:** 621400600-0014  
**Sample Description:** ROOF (UPPER LAYER)/BLACK ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-4-C **Lab Sample ID:** 621400600-0015  
**Sample Description:** ROOF (UPPER LAYER)/BLACK ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	



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EMSL Order ID: 621400600  
Customer ID: CRED25  
Customer PO: 14001246  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** EXT-5-A **Lab Sample ID:** 621400600-0016  
**Sample Description:** ROOF (LOWER LAYER)/GRAY ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-5-B **Lab Sample ID:** 621400600-0017  
**Sample Description:** ROOF (LOWER LAYER)/GRAY ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-5-C **Lab Sample ID:** 621400600-0018  
**Sample Description:** ROOF (LOWER LAYER)/GRAY ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-6-A **Lab Sample ID:** 621400600-0019  
**Sample Description:** SIDING (GARAGE)/BROWN ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Brown /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-6-B **Lab Sample ID:** 621400600-0020  
**Sample Description:** SIDING (GARAGE)/BROWN ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Brown /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-6-C **Lab Sample ID:** 621400600-0021  
**Sample Description:** SIDING (GARAGE)/BROWN ASPHALT SHINGLE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Brown /Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-7-A **Lab Sample ID:** 621400600-0022  
**Sample Description:** SIDING (GARAGE)/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** EXT-7-B **Lab Sample ID:** 621400600-0023  
**Sample Description:** SIDING (GARAGE)/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	



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EMSL Order ID: 621400600  
Customer ID: CRED25  
Customer PO: 14001246  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** EXT-7-C **Lab Sample ID:** 621400600-0024  
**Sample Description:** SIDING (GARAGE)/BLACK FELT PAPER

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** LI-1-A **Lab Sample ID:** 621400600-0025  
**Sample Description:** LEFT INTERIOR WALL/WHITE PLASTER SKIM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	White	0%	100%	None Detected	

**Client Sample ID:** LI-1-B **Lab Sample ID:** 621400600-0026  
**Sample Description:** LEFT INTERIOR WALL/WHITE PLASTER SKIM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	White	0%	100%	None Detected	

**Client Sample ID:** LI-1-C **Lab Sample ID:** 621400600-0027  
**Sample Description:** LEFT INTERIOR WALL/WHITE PLASTER SKIM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	White	0%	100%	None Detected	

**Client Sample ID:** LI-2-A **Lab Sample ID:** 621400600-0028  
**Sample Description:** LEFT INTERIOR WALL/PLASTER WALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	Gray/White	5%	95%	None Detected	

**Client Sample ID:** LI-2-B **Lab Sample ID:** 621400600-0029  
**Sample Description:** LEFT INTERIOR WALL/PLASTER WALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	Gray/White	8%	92%	None Detected	

**Client Sample ID:** LI-2-C **Lab Sample ID:** 621400600-0030  
**Sample Description:** LEFT INTERIOR WALL/PLASTER WALL

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	Gray/White	6%	94%	None Detected	

**Client Sample ID:** LI-3-A **Lab Sample ID:** 621400600-0031  
**Sample Description:** LEFT INTERIOR CEILING/WHITE PLASTER SKIM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	White	0%	100%	None Detected	



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EMSL Order ID: 621400600  
Customer ID: CRED25  
Customer PO: 14001246  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** LI-3-B **Lab Sample ID:** 621400600-0032  
**Sample Description:** LEFT INTERIOR CEILING/WHITE PLASTER SKIM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	White	0%	100%	None Detected	

**Client Sample ID:** LI-3-C **Lab Sample ID:** 621400600-0033  
**Sample Description:** LEFT INTERIOR CEILING/WHITE PLASTER SKIM

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	White	0%	100%	None Detected	

**Client Sample ID:** RI-1-A **Lab Sample ID:** 621400600-0034  
**Sample Description:** BLACK CLOTH WIRING (OUTER)/WIRE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	

**Client Sample ID:** RI-1-B **Lab Sample ID:** 621400600-0035  
**Sample Description:** BLACK CLOTH WIRING (OUTER)/WIRE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	

**Client Sample ID:** RI-1-C **Lab Sample ID:** 621400600-0036  
**Sample Description:** BLACK CLOTH WIRING (OUTER)/WIRE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	

**Client Sample ID:** RI-2-A **Lab Sample ID:** 621400600-0037  
**Sample Description:** BLACK CLOTH WIRING (INNER)/WIRE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** RI-2-B **Lab Sample ID:** 621400600-0038  
**Sample Description:** BLACK CLOTH WIRING (INNER)/WIRE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Black	0.0%	100%	None Detected	

**Client Sample ID:** RI-2-C **Lab Sample ID:** 621400600-0039  
**Sample Description:** BLACK CLOTH WIRING (INNER)/WIRE INSULATION

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM Grav. Reduction	6/09/2014	Gray /Black	0.0%	100%	None Detected	



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EMSL Order ID: 621400600  
Customer ID: CRED25  
Customer PO: 14001246  
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** RI-3-A **Lab Sample ID:** 621400600-0040  
**Sample Description:** RIGHT INTERIOR KITCHEN/CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	Brown/White	80%	20%	None Detected	

**Client Sample ID:** RI-3-B **Lab Sample ID:** 621400600-0041  
**Sample Description:** RIGHT INTERIOR KITCHEN/CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	Brown/White	80%	20%	None Detected	

**Client Sample ID:** RI-3-C **Lab Sample ID:** 621400600-0042  
**Sample Description:** RIGHT INTERIOR KITCHEN/CEILING TILE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	6/09/2014	Brown/White	90%	10%	None Detected	

PLM: ME CERT.# BA-0150 (AM) BA-0142 (CW)  
PLM EPA NOB: ME CERT.# BA-0150 (AM) BA-0142 (CW)

### Analyst(s)

Alexander Maxinoski	PLM	(8)
	PLM Grav. Reduction	(10)
Christina Walker	PLM	(4)
	PLM Grav. Reduction	(20)

Christina Walker, Laboratory Manager  
or other Approved Signatory

Any questions please contact Christina Walker.

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. This test report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. EMSL bears no responsibility for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples. PLM alone is not consistently reliable in detecting asbestos in floor coverings and similar NOBs

Samples analyzed by EMSL Analytical, Inc. South Portland, ME NVLAP Lab Code 500094-0

Initial report from: 06/09/2014 10:49:13



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# Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

621400600

EMSL Analytical, Inc.  
161 John Roberts Road

South Portland, ME 04106

PHONE: (207) 517-6921

FAX: (207) 517-6922

Company: Credere Associates, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 776 Main Street		Third Party Billing requires written authorization from third party	
City: Westbrook	State/Province: ME	Zip/Postal Code: 04092	Country: United States
Report To (Name): Judd Newcomb		Telephone #: 207-828-1272	
Email Address: jnewcomb@credere.com		Fax #:	Purchase Order: 14001248
Project Name/Number: 1 Joy Place/14001246		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: ME		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

### 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.

<b>PLM - Bulk (reporting limit)</b>		<b>TEM - Bulk</b>	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	
<input checked="" type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<b>Other</b>		
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/>		
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)			
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)			
<input type="checkbox"/> OSHA ID-191 Modified			
<input type="checkbox"/> Standard Addition Method			

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 06/05/2014

Samplers Name: Judd Newcomb

Samplers Signature: *Judd Newcomb*

Sample #	HA #	Sample Location	Material Description
EXT-0-A	1	UPPER SIDING	RED ASPHALT SHINGLE
EXT-0-B	1	↓	↓
EXT-0-C	1		
EXT-1-A	2	UPPER SIDING	BLACK FELT PAPER
EXT-1-B	2	↓	↓
EXT-1-C	2		
EXT-2-A	3	LOWER SIDING	TAN ASPHALT SHINGLE
EXT-2-B	3	↓	↓
EXT-2-C	3		
EXT-3-A	4	LOWER SIDING	BLACK FELT PAPER

Client Sample # (s): EXT-0 → EXT-7 - LI-1 → LI-3 Total # of Samples: 42

Relinquished (Client): *Judd Newcomb* Date: 6/5/14 Time: 1300

Received (Lab): *[Signature]* Date: 6/5/2014 Time:

Comments/Special Instructions:

received  
42



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## Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

621400600

EMSL Analytical, Inc.  
161 John Roberts Road

South Portland, ME 04106

PHONE: (207) 517-6921

FAX: (207) 517-6922

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

Sample #	HA #	Sample Location	Material Description
EXT-3-B	4	↓	↓
EXT-3-C	4	↓	↓
EXT-4-A	5	ROOF (UPPER LAYER)	BLACK ASPHALT SHINGLE
EXT-4-B	5	↓	↓
EXT-4-C	5	↓	↓
EXT-5-A	6	ROOF (LOWER LAYER)	GRAY ASPHALT SHINGLES <del>BLACK FELT PAPER</del>
EXT-5-B	6	↓	↓
EXT-5-C	6	↓	↓
EXT-6-A	7	SIDING (GARAGE)	BROWN ASPHALT SIDING
EXT-6-B	7	↓	↓
EXT-6-C	7	↓	↓
EXT-7-A	8	SIDING (GARAGE)	BLACK FELT PAPER
EXT-7-B	8	↓	↓
EXT-7-C	8	↓	↓
LI-1-A	9	LEFT INTERIOR WALL	WHITE PLASTER SKIM
LI-1-B	9	↓	↓
LI-1-C	9	↓	↓
LI-2-A	10	LEFT INTERIOR WALL	PLASTER WALL
LI-2-B	10	↓	↓
LI-2-C	10	↓	↓
LI-3-A	11	LEFT INTERIOR CEILING	WHITE PLASTER SKIM
LI-3-B	11	↓	↓
LI-3-C	11	↓	↓
PI-1-A	12	BLACK CLOTH WRAPPING (OUTER)	WIRE INSULATION
*Comments/Special Instructions:			





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### Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

621400600

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161 John Roberts Road

South Portland, ME 04106

PHONE: (207) 517-6921

FAX: (207) 517-6922

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

Sample #	HA #	Sample Location	Material Description
RI-1-B	12	↓	↓
RI-1-C	12	↓	↓
RI-2-A	13	BLACK CLOTH WIRING (INNER)	WIRE INSULATION
RI-2-B	13	↓	↓
RI-2-C	13	↓	↓
RI-3-A	14	RIGHT INTERIOR KITCHEN	CEILING TILE
RI-3-B	14	↓	↓
RI-3-C	14		

\*Comments/Special Instructions:

## **Appendix E**

### **PCB Sample Laboratory Analytical Reports**



# Laboratory Report



**Absolute Resource** *associates*

124 Heritage Avenue Portsmouth NH 03801

Judd Newcomb  
CREDERE Associates  
776 Main Street  
Westbrook, ME 04092

PO Number: 14001246  
Job ID: 29947  
Date Received: 6/9/14

Project: 1 Joy Place 14001246

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,  
Absolute Resource Associates

A handwritten signature in black ink that reads "Sue Sylvester (for)".

Sue Sylvester  
Principal, General Manager

Date of Approval: 6/19/2014  
Total number of pages: 4

## Absolute Resource Associates Certifications

New Hampshire 1732  
Maine NH903

Massachusetts M-NH902

Project ID: 1 Joy Place 14001246

Job ID: 29947

Sample#: 29947-001

Sample ID: BM-1

Matrix: Solid

Sampled: 6/5/14 11:45

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
PCB-1016	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
PCB-1221	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
PCB-1232	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
PCB-1242	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
PCB-1248	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
PCB-1254	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
PCB-1260	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
<b>Surrogate Recovery</b>		<b>Limits</b>								
tetrachloro-m-xylene SUR	<b>77</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
decachlorobiphenyl SUR	<b>88</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A

Sample#: 29947-002

Sample ID: BM-2

Matrix: Solid

Sampled: 6/5/14 12:00

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
PCB-1016	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
PCB-1221	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
PCB-1232	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
PCB-1242	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
PCB-1248	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
PCB-1254	<b>1.2</b>	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
PCB-1260	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
<b>Surrogate Recovery</b>		<b>Limits</b>								
tetrachloro-m-xylene SUR	<b>80</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
decachlorobiphenyl SUR	<b>111</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A

Project ID: 1 Joy Place 14001246

Job ID: 29947

Sample#: 29947-003

Sample ID: BM-3

Matrix: Solid

Sampled: 6/5/14 12:15

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
PCB-1016	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
PCB-1221	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
PCB-1232	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
PCB-1242	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
PCB-1248	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
PCB-1254	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
PCB-1260	< 0.7	0.7	ug/g	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
<b>Surrogate Recovery</b>		<b>Limits</b>								
tetrachloro-m-xylene SUR	<b>62</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
decachlorobiphenyl SUR	<b>62</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A

Sample#: 29947-004

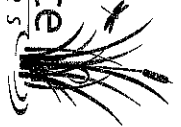
Sample ID: BM-4

Matrix: Solid

Sampled: 6/5/14 12:30

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
PCB-1016	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
PCB-1221	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
PCB-1232	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
PCB-1242	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
PCB-1248	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
PCB-1254	<b>1.8</b>	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
PCB-1260	< 0.8	0.8	ug/g	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
<b>Surrogate Recovery</b>		<b>Limits</b>								
tetrachloro-m-xylene SUR	<b>63</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
decachlorobiphenyl SUR	<b>75</b>	30-150	%	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A

# Absolute Resource



124 Heritage Avenue #16  
 Portsmouth, NH 03801  
 603-436-2001  
 absoluteresourceassociates.com

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

29947

Company Name: **CREDEM**

Company Address: **776 MAIN ST WESTBORO MA 01581**

Report To: **JUD NEWCOMB**

Phone #: **207-232-5387**

Invoice to Email: **JNEWCOMB@CREDEKELLS.COM**

Quote # **CREDE028** PO # **14001246**

Project Name: **1504 PLAC**

Project #: **14001246**

Project Location: **NH MA VT NY**

Protocol: **SDWA NPDES OTHER**

Reporting Limits: **OAPP GW-1 S-1 EPA DW Other TSCA**

Quote # **CREDE028** NH Reimbursement Pricing

Lab Sample ID	Field ID	# CONTAINERS	Matrix			Preservation Method				Sampling		
			WATER	SOLID	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	DATE	TIME
29947	BM-1	1								6/5/14	1145	TW
-02	BM-2	1								1800		
-03	BM-3	1								1815		
-04	BM-4	1								1830		

<input type="checkbox"/> VOC 8260	<input type="checkbox"/> VOC 8260 NHDES	<input type="checkbox"/> VOC 8260 MADEP
<input type="checkbox"/> VOC 624	<input type="checkbox"/> VOC BTEX	<input type="checkbox"/> MIBE, only
<input type="checkbox"/> VPH MADEP	<input type="checkbox"/> MEGRO	<input type="checkbox"/> GRO 8015
<input type="checkbox"/> VOC 524.2	<input type="checkbox"/> VOC 524.2 NH List	<input type="checkbox"/> Gases-Llist:
<input type="checkbox"/> TPH	<input type="checkbox"/> DRO 8015	<input type="checkbox"/> MEDRO
<input type="checkbox"/> 8270PAH	<input type="checkbox"/> 8270ABN	<input type="checkbox"/> 625
<input checked="" type="checkbox"/> 8082 PCB	<input type="checkbox"/> 8081 Pesticides	<input type="checkbox"/> 608 Pest/PCB
<input type="checkbox"/> O&G 1664	<input type="checkbox"/> Mineral O&G	<input type="checkbox"/> SM6520F
<input type="checkbox"/> pH	<input type="checkbox"/> BOD	<input type="checkbox"/> Conductivity
<input type="checkbox"/> TSS	<input type="checkbox"/> TDS	<input type="checkbox"/> TS
<input type="checkbox"/> RCRA Metals	<input type="checkbox"/> Priority Pollutant Metals	<input type="checkbox"/> TAL Metals
<input type="checkbox"/> Total Metals-list:		
<input type="checkbox"/> Dissolved Metals-list:		
<input type="checkbox"/> Ammonia	<input type="checkbox"/> COD	<input type="checkbox"/> TKN
<input type="checkbox"/> T-Phosphorus	<input type="checkbox"/> Phenols	<input type="checkbox"/> Bacteria P/A
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Sulfide	<input type="checkbox"/> Nitrate + Nitrite
<input type="checkbox"/> Nitrate	<input type="checkbox"/> Nitrite	<input type="checkbox"/> Chloride
<input type="checkbox"/> Corrosivity	<input type="checkbox"/> Reactive CN	<input type="checkbox"/> Reactive S-
<input type="checkbox"/> TCLP Metals	<input type="checkbox"/> TCLP VOC	<input type="checkbox"/> TCLP SVOC
<input type="checkbox"/> Subcontract:	<input type="checkbox"/> Grain Size	<input type="checkbox"/> Herbicides

**TAI REQUESTED**  
 Priority (24 hr)\*   
 Expedited (48 hr)\*   
 Standard (10 Business Days)   
 \*Date Needed **6/5/14**

**REPORTING INSTRUCTIONS**  
 HARD COPY REQUIRED  FAX (FAX#)  
 PDF (e-mail address) **same**

Relinquished by Sampler: **William**  
 Relinquished by: **Casone**  
 Date: **6/5/14** Time: **1500**

Received by Laboratory: **WJ**  
 Date: **6/19/2014** Time: **10:00**

**CUSTODY RECORD**  
 OSO-01 Revision 03/03/14

**RECEIVED ON ICE** YES  NO   
 TEMPERATURE **1** °C

*Handwritten notes:*  
 Relinquished by: **William**  
 Relinquished by: **Casone**  
 Date: **6/5/14** Time: **1500**  
 Received by Laboratory: **WJ**  
 Date: **6/19/2014** Time: **10:00**  
 Date: **6/19/2014** Time: **11:30**