Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

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:
Credere 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;

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(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**.

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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.

Credere 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**.

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Table 2 – Summary of PCB Sample Results			
Sample ID	**Area**	**Material Description**	**Total PCB Results (mg/kg)**
BM-1	Left unit, second floor living room windows	White caulk	ND<0.7
BM-2	Left unit, second floor living room celling	White paint, curling/peeling	**1.2**
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	**1.8**

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

Credere 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^2 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**.

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Table 3 - Lead-Based Paint Screening Results

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

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

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

Credere 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.

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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.

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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.

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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

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Appendix A

Asbestos Inspector Certification Documents

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Appendix B

Maine DEP Disclosure Forms

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Appendix C

Site Photographs

Site Reconnaissance Photo Log
1 Joy Place
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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

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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

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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.

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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

EMSL Order ID: 6214(
Customer ID: CRED
Customer PO: 1400
Project ID:

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Date: 04/06/18

Attn: Judd Newcomb
Credere 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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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	Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/09/2014	Tan/Black	0.0%	100%	None Detected	

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

EMSL Order ID: 6214(
Customer ID: CRED
Customer PO: 1400
Project ID:

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

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

EMSL Order ID: 6214(
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Project ID:

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

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Phone/Fax: (207) 517-6921 / (207) 517-6922
http://www.EMSL.com / portlandlab@emsl.com

EMSL Order ID: 6214(
Customer ID: CRED
Customer PO: 1400
Project ID:

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

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

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

EMSL Order ID: 6214(
Customer ID: CRED
Customer PO: 1400
Project ID:

Reviewed for Code Compliance Inspections Division Approved with Conditions
Date: 04/06/18

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

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

EMSL Order ID: 6214(
Customer ID: CRED
Customer PO: 1400
Project ID:

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

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 Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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 Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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 Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
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)

CWalker

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

OrderID: 621400600

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

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Inspections Division
Approved with Conditions
Date: 04/06/18

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Inspections Division
Approved with Conditions
Date: 04/06/18

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Inspections Division
Approved with Conditions
Date: 04/06/18

Appendix E

PCB Sample Laboratory Analytical Reports

Laboratory Report

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

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

(for)

Sue Sylvester
Principal, General Manager

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

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: 1 Joy Place 14001246
Job ID: 29947

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

Sample#: 29947-001
Sample ID: BM-1
Matrix: Solid
Sampled: 6/5/14 11:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
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
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**77**	30-150	%	1	JLZ	6/12/14	6976	6/13/14	14:48	SW3540C8082A
decachlorobiphenyl SUR	**88**	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	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
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	**1.2**	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
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**80**	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A
decachlorobiphenyl SUR	**111**	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:20	SW3540C8082A

Absolute Resource associates

Project ID: 1 Joy Place 14001246
Job ID: 29947

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/06/18

Sample#: 29947-003
Sample ID: BM-3
Matrix: Solid
Sampled: 6/5/14 12:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
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
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**62**	30-150	%	1	JLZ	6/12/14	6976	6/13/14	15:52	SW3540C8082A
decachlorobiphenyl SUR	**62**	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	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
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	**1.8**	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
Surrogate Recovery		**Limits**								
tetrachloro-m-xylene SUR	**63**	30-150	%	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A
decachlorobiphenyl SUR	**75**	30-150	%	1	JLZ	6/12/14	6976	6/13/14	16:23	SW3540C8082A

Absolute Resource associates

Reviewed for Code Compliance Inspections Division Approved with Conditions 04/06/18
Date:

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

29947

Company Name: CREDERE

Company Address: 776 MAIN ST WESTBROOK ME 04092

Report To: JUDD NEWCOMB

Phone #: 207-232-5387

Invoice to Email: JNEWCOMB@CREDERELLC.com

☐ Hard Copy Invoice Required

Project Name: 1 JOY PLACE

Project #: 14001246

Project Location: NH MA (ME) VT NY Other

Protocol: (RCRA) SDWA NPDES MCP NHDES OTHER

Reporting Limits: QAPP GW-1 S-1 EPA DW Other TSCA

Quote # CREDERE ☐ NH Reimbursement Pricing

PO # 14001246

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB ☒ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB Soil List ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness ☐ Total Metals-list: ☐ Dissolved Metals-list: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	8082 PCB	Grab (G) or Composite (C)
29947-01	BM-1	1		X							6/5/14	1145	JN	X	G
-02	BM-2	1		X								1200			
-03	BM-3	1		X								1215			
-04	BM-4	1		X								1230			

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed 6/16/14

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) SAME
☐ HARD COPY REQUIRED ☐ FAX (FAX#)

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 1 °C

CUSTODY RECORD
QSD-01 Revision 03/03/14

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
[signature]	6/5/14	1500	CREDERE		
Relinquished by: CREDERE			Received by:		
Relinquished by: [signature] Silas Miller	6/9/2014	1010	Received by Laboratory: [signature]	6/9/2014	10:00

[signature] 6/9/2014 11:30 [signature] 6/9/14 11:30

4