DOCUMENT 00 91 00

ADDENDA

ADDENDUM NUMBER Four (004)

DATE: July 15, 2024

PROJECT: **Quoddy Head State Park Lighthouse and Map Room Renovations**

PROJECT NUMBER: Artifex Project No. 2023106
BGS Project No. #3551

CLIENT: Maine Department of Agriculture, Conservation, & Forestry,
Bureau of Parks and Lands
22 State House Station
106 Hogan Road, Suite 7
Bangor, Maine 04401

ARCHITECT: ARTIFEX

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated May 16, 2024, with amendments and additions noted below.

The Bidder is to acknowledge receipt of this Addendum in the space provided in the Bid Form of the Project Manual. Failure to do so may disqualify the Bidder.

This Addendum consists of **two (2)** pages.

1.0 **Questions Received:**

The State is issuing this Addendum to the bid packages as originally published on May 16, 2024. The Project Completion date has been extended to July, 2026.

2.0 **Changes to General Documents:**

2.01 REVISION TO SECTION 00 11 13 Notice to Contractors
1. *Bids to be received no later than **2:00 p.m. on 25 July 2024**. All other information as stated.*
2.02 REVISION TO SECTION 00 01 10 Table of Contents
1. Add Sections 00 62 76 Application for Payment; 00 63 46 Construction Change Directive; 00 63 63 Change Order;
2. Remove Section 00 22 13 Supplementary Instructions for Bidders
2.03 REVISION TO SECTION 00 11 13 Advertisement for Bids*: Change in bid date and Completion Dates*

2.04 REVISION TO SECTION 00 31 26 Existing Hazardous Materials Information: *Additional Hazardous Material Report has been added*
2.05 REVISION TO SECTION 00 41 13 Bid Form: *Revision to due date*
2.06 REVISION TO SECTION 00 73 46 Wage Determination Schedule: *Updated cover sheet*

3.0 **Changes to the specifications:** *None*
4.0

5.0 **Attachments:** *None*

-- END OF DOCUMENT --

SECTION 00 01 10 - TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

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PROCUREMENT AND CONTRACTING REQUIREMENTS

SPECIFICATIONS GROUP

GENERAL REQUIREMENTS SUBGROUP

DIVISION 01 - GENERAL REQUIREMENTS

FACILITY CONSTRUCTION SUBGROUP

DIVISION 02 - EXISTING CONDITIONS

00 11 13
Notice to Contractors

Quoddy Head State Park Lighthouse and Map Room Renovations BGS Proj. 3551

Historic rehabilitation/renovations to the Quoddy Head State Park Lighthouse and Map Room in Lubec, Maine to include exterior masonry, exterior painting, window refurbishment, interior rehabilitation at Map Room, and new handrail inside lighthouse.

The cost of the work is approximately $ 350,000. The contract shall designate the Substantial Completion Date on or before *31 July 2026*, and the Contract Final Completion Date on or before *30 November 2026*.

1. Submit bids on a completed Contractor Bid Form (section 00 41 13) provided in the Bid Documents, include bid security when required, and scan each item as an attachment to an email addressed to: BGS.Architect@Maine.gov, so as to be received no later than **2:00:00 p.m.** on ***25 July 2024***. The email subject line shall be marked "**Bid for *Quoddy Head State Park Lighthouse and Map Room Renovations***".

   Bid submissions will be opened and read aloud at the time and date noted above at the Bureau of General Services office, accessible as a video conference call. Those who wish to participate in the call must submit a request for access to BGS.Architect@Maine.gov.

   Any bid received after the noted time will not be considered a valid bid and will remain unopened. Any bid submitted by any other means will not be considered a valid bid. In certain circumstances, the Bureau of General Services may require the Bidder to surrender a valid paper copy of the bid form or the bid security document. The Owner reserves the right to accept or reject any or all bids as may best serve the interest of the Owner.

2. Questions and comments on the *bid opening process* shall be addressed to: Joseph H. Ostwald, Director, Division of Planning, Design & Construction, Bureau of General Services, 77 State House Station, Augusta, Maine 04333-0077, BGS.Architect@Maine.gov.

3. Questions and comments regarding the *project* design specifications or drawings shall be directed in writing to the Consultant during the bid period prior to the question and comment deadline of 5:00 p.m. on *19 July 2024*.

   Artifex AE
   Ellen Angel
   eangel@artifexae.com

4. ☒ Bid security is required on this project.
   The Bidder shall include a satisfactory Bid Bond (section 00 43 13) or a certified or cashier's check for 5% of the bid amount with the completed bid form submitted to the Owner. The Bid Bond form is available on the BGS website.
   or
   ☐ Bid security is <u>not</u> required on this project.

00 11 13
Notice to Contractors

5. ☒ Performance and Payment Bonds are required on this project.
   If noted above as required, or if any combination of Base Bid and Alternate Bids amounts selected in the award of the contract exceeds $125,000.00, the selected Contractor shall furnish a 100% contract Performance Bond (section 00 61 13.13) and a 100% contract Payment Bond (section 00 61 13.16) in the contract amount to cover the execution of the Work. Bond forms are available on the BGS website.
   or
   ☐ Performance and Payment Bonds are not required on this project.

6. Filed Sub-bids *are not required* on this project.

7. ☐ Pre-qualified General Contractors are utilized on this project.
   insert the company name, city and state for each
   or
   ☒ Pre-qualified General Contractors are not utilized on this project.

8. ☐ An on-site pre-bid conference (☐ *mandatory* or ☒ *optional*) will be conducted for this project. The pre-bid conference is intended for General Contractors. Subcontractors and suppliers are welcome to attend. Contractors who arrive late or leave early for a mandatory meeting may be prohibited from participating in this meeting and bidding.

   or
   ☒ An on-site pre-bid conference will not be conducted for this project.

9. Bid Documents - full sets only - will be available on or about and may be obtained *at no cost, digitally* from:
   Artifex AE
   eangel@artifexae.com

10. Bid Documents may be examined at:

AGC Maine
188 Whitten Road
Augusta, ME 04330
Phone 207-622-4741 Fax 207-622-1625

Construction Summary
734 Chestnut Street
Manchester, NH 03104
Phone 603-627-8856 Fax 603-627-4524

DOCUMENT 00 31 26 - EXISTING HAZARDOUS MATERIAL INFORMATION

1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of Bidders' own investigations. They are made available for Bidders' convenience and information but are not a warranty of existing conditions. This Document and its attachments are not part of the Contract Documents.

B. An existing Report: “Limited Lead and Asbestos Building Survey” prepared by Air Quality Management Services, Inc. and dated September 22, 2004, is included in this document. Bidders are to assume that interior paint on walls, floor, and ceiling of the Map Room are lead bearing paint. This report is available for viewing as appended to this Document.

C. A New Report: “Renovation Impact Study” prepared by Air Quality Management Services, Inc., date June 12, 2024 is included in this document as appended.

D. An existing lead report statement for the exterior of the Lighthouse Tower portion of this Project, prepared by Amy Cole Ives (Sutherland Conservation & Consulting), dated January 26, 2024, states that exterior paint is NOT lead-based or lead bearing. This report is available for viewing as appended to this Document..

E. Related Requirements:

1. Document 002113 "Instructions to Bidders" for the Bidder's responsibilities for examination of Project site and existing conditions.

END OF DOCUMENT 00 31 26

Limited Lead & Asbestos Building Survey

Department of Conservation - Parks & Recreation

Quoddy Head State Park

Air Quality Management Services, Inc
19B Portland Road
P.O. Box 865
Gray, Maine 04039
Telephone: 207-657-7360 Fax: 207-657-7361

PREPARED FOR

Mr. Gene Kaler
Maine Bureau of General Services
77 State House Station
Augusta, Maine 04333-0077

REPORT DATE

September 22nd, 2004

AQM PROJECT #04-198

Donald M. Bickford, OHST, CIE, CMR
Principal Industrial Hygienist

TABLE OF CONTENTS

EXECUTIVE SUMMARY

Air Quality Management Services, Inc. (AQM) was retained to conduct evaluations of seven (7) buildings located in Quoddy Head State Park in Lubec, Maine. Testing was conducted to identify asbestos and lead-based paints in the buildings to prepare for renovation and/or demolition activities in the structures. The buildings are as follows:

- Visitor's Center/Manager's Residence
- Quoddy Head Light
- Maintenance Shop
- Shop Storage Building
- Shop Vault Toilet
- Vault Toilets – (2 Total)

The objective of the facility survey was to evaluate each structure for presence of lead-based paint (LBP) and document the presence of asbestos-containing building materials (ACBM) and presumed asbestos-containing materials (PACM) within the facility, and complete facility drawings indicating location and quantity of ACBM, PACM and LBP.

The asbestos survey, limited in scope to accessible materials (see Limitations), was performed by visual evaluation of ACBM and then sampling suspect materials in accordance with applicable protocols and Maine's Chapter 425 "Asbestos Management Regulations". Suspect materials were then analyzed by a DEP-licensed laboratory with positive results (asbestos content greater than or equal to 1% asbestos) being reported on the attached summary and drawings.

The lead determination was performed utilizing a Radiation Monitoring Device Lead Paint Analyzer (RMD LPA-IB, Serial #1971), which non-destructively tests for the presence of lead in building components. The analyzer was satisfactorily pre and post calibrated in accordance with both state and federal regulations and the manufacturer's specifications. All of the calibration readings were within the designated limits. All X-ray Fluorescence Analyzer (XRF) readings for components that were tested have been included on the forms contained herein. Components, which contain Lead-Based Paint, are those with XRF readings in excess of 1.0 milligram (mg) of lead per square centimeter (cm^2) and they are detailed on the attached summary and drawings.

The field survey was conducted on August 27th, 2004 by Mr. Thomas W. Lloyd of Air Quality Management Services, Inc., certified lead & asbestos inspector in the State of Maine.

The locations and descriptions of these materials (PACM, ACBM or LBP) were recorded on the attached CAD Drawings.

OBSERVATIONS & FINDINGS

Quoddy Head State Park – Lubec, Maine

The buildings surveyed are generally constructed of similar materials and in a similar condition. The exteriors and interiors are wood. The reported ages of the buildings are as follows:

- Visitor's Center/Manager's Residence – **UK**
- Quoddy Head Light - 1858
- Maintenance Shop – 1995
- Shop Storage Building - 1990
- Shop Vault Toilet - 1995
- Vault Toilets (2)– 2000

UK = Unknown Age

ASBESTOS SURVEY RESULTS

These materials were presumed (PACM-see drawings) to contain asbestos:

Roofs: Quoddy Head Light – Chart Room Section

Transite: None Visible

No additional suspect asbestos containing materials were discovered in the structures at the Park. No bulk material samples were collected from the buildings in the Park and analyzed for asbestos.

See the Drawings and the Spreadsheets for a more detailed description of the areas and surfaces that are presumed to contain asbestos

LEAD SURVEY RESULTS

Lead-based paint (LBP) **was** identified in the following buildings:

- **Visitor's Center/Manager's Residence** – Painted wooden surfaces in the closet (old stairwell) in the Cultural Room; the basement stair components and adjacent painted wall in the basement; the painted stair trim in the stairwell to the Manager's residence portion of the building (1st floor to 2nd floor); the original painted trim in the Manager's Residence and the original doors in the Manager's Residence.
- **West Quoddy Head Light** – The interior walls, ceiling and floor in the wood frame portion of the structure Chart Room); all painted surfaces into the Head Light Tower from the Chart Room; the metal stairwell top plate and the floor in the Head Light Tower. All exterior components have been re-painted in 2000-2001.

Note: Testing combinations were utilized in the Survey. Special attention should be given to ensure that impacted materials not labeled on the spreadsheets may have been considered a testing combination. Testing combination means: building materials that were installed at the same time, appear the same, and appear to have the same paint history.

See the Drawings and the Spreadsheets for a more detailed description of the areas and surfaces that contain lead based paint

Lead-Based Paint Options

1. The LBP identified in the:

    - **Visitor's Center/Manager's Residence:** The materials which demonstrate positive tests for lead based paint are currently in good-to-excellent condition and do not appear to pose a risk. If the paint on the surfaces remains intact and in good condition then no additional activities are needed. If the paint is deemed as posing a risk (cracking, peeling, chipping, creating dust, etc.) then wet scraping with poly drop clothes should be performed to minimize lead dust and to collect the paint flakes/dust generated. Then the surfaces can be primed and painted with non-lead based paint. The surfaces should then be monitored for deterioration and resultant lead dust.
    - **Quoddy Head Light:** The materials which demonstrate positive tests for lead based paint are currently in extremely poor condition and should be considered to pose a risk. Due to the degree of the deterioration of the interior painted surfaces, the most practical method to remove the paint is the use of abrasive media blasting. The area must be isolated and placed under negative pressure to accomplish the removal of the lead-based paint. The concentrated lead waste from the blasting operation will require TCLP testing prior to disposal per EPA Method (EPA 1311).

The waste generated by the renovation work in the Visitor's Center/Manager's Residence can be addressed be disposal as typical Construction and Demolition waste as per the Toxic Substances Control Act (TSCA) and Maine Department of Environmental Protection. As noted, the waste from blasting operations must be tested to ensure compliance with Hazardous Waste sections of the regulations governing solid waste disposal.

ASBESTOS SURVEY RESULTS

Per agreements made with the client, materials presumed to contain asbestos in excess of 1% (positive for asbestos under US EPA and Maine DEP regulations) are:

1. Asphaltic Roofing Materials
2. Mastics
3. Adhesives
4. Glues
5. Thermal Systems Insulation
6. Transite Piping
7. Transite Panels

Presumed Asbestos Containing Materials (PACM) can be sampled and analyzed to confirm presence of asbestos at the request of the client.

No other Suspect Asbestos-Containing Materials (SACM) were discovered during the "limited destructive investigation" of the seven (7) buildings evaluated under this agreement. If any other SACM is found during demolition or renovation activities, Air Quality Management Services, or some other DEP-licensed consulting firm, should be contacted to accomplish sampling and analysis.

SURVEY LIMITATIONS

As with any scientific study, certain assumptions are made and certain limitations exist to the scope of information which can be derived from a limited survey. Some restrictions on the conduct of the survey are imposed by outside sources while others are established through the designed scope methodology of the study. Limitations that should be considered in the interpretation of the results of this survey include:

1. Asbestos surveys generally are not able to identify all ACBM present throughout a facility. A thorough survey should identify most of the accessible (by non-destructive methods) ACBM present, but will be unable to detect underlying materials. For example, multiple layers of materials or structural components may restrict access to suspect materials thus affecting the thoroughness of the survey. In most cases an asbestos survey is limited to accessible suspect materials with some minor demolition or destructive sampling.

2. The inspection protocols used for this project were in accordance U.S. Environmental Protection Agency (USEPA) - National Emission Standards for Hazardous Air Pollutants (NESHAP) and with the Maine Department of Environmental Protection (MEDEP) protocols specific to asbestos sampling and evaluations.

3. Due to the limited nature of this survey, AQM recommends that any suspect material not identified in this report, be sampled by a DEP-licensed consultant, for asbestos analysis and presumed to be asbestos. In some cases hidden or previously unidentified materials may be identified during renovations, general maintenance or demolition activities and they should be considered suspect unless they are wood, fiberglass, plastic, metal, laminate, exterior caulking and glazing, or gypsum board when the joint compound is used only as filler for tape seams and holes, not as a stratified layer. .

4. Materials, presumed to be asbestos (>1% asbestos content) by agreement with the client, are: roof systems, transite, and thermal insulation. Any other suspect materials were sampled by AQM and analyzed by a DEP-licensed lab using polarized light microscopy (PLM) using the EPA 600/R-93/116 method.

POTENTIAL LEAD/ASBESTOS HAZARDS

Potential Lead Hazards

1. The disturbance or dislocation of lead-based painted materials may cause lead dust to be released into the atmosphere, thereby creating a potential health hazard to workers and/or building occupants. Activities that disturb lead-based paint are subject to compliance with OSHA regulations (29 CFR 1910.1025 & 29 CFR 1926.62). Workers, supervisory personnel, subcontractors and consultants who will be at the job site should be advised of the presence of LBP and of the need to follow proper work procedures including applicable regulations.

2. When performing work in the general vicinity of LBP identified in any survey, workers, supervisory personnel, subcontractors, and/or consultants should take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to lead dust. Such measures shall include the procedures and methods described herein, and compliance with regulations and guidelines of applicable federal, state and local agencies.

3. Contractors or persons performing renovation/remodeling activities, in which lead dust may be generated in excess of established regulatory norms, must wear NIOSH approved respirators (OSHA 29 CFR 1910.134) and are required to comply with the OSHA 29 C Part 1926.62; Lead Standard. Engineering controls such as wet-scraping/sanding and/or local exhaust ventilation are to be employed in order to reduce airborne lead concentrations.

4. Any lead dust generated from renovation work must be contained so that exposure is minimal for both the workers and any occupants. After any renovation work is completed the dust should immediately be cleaned up in order to prevent migration to other areas or the environment.

Potential Asbestos Hazards

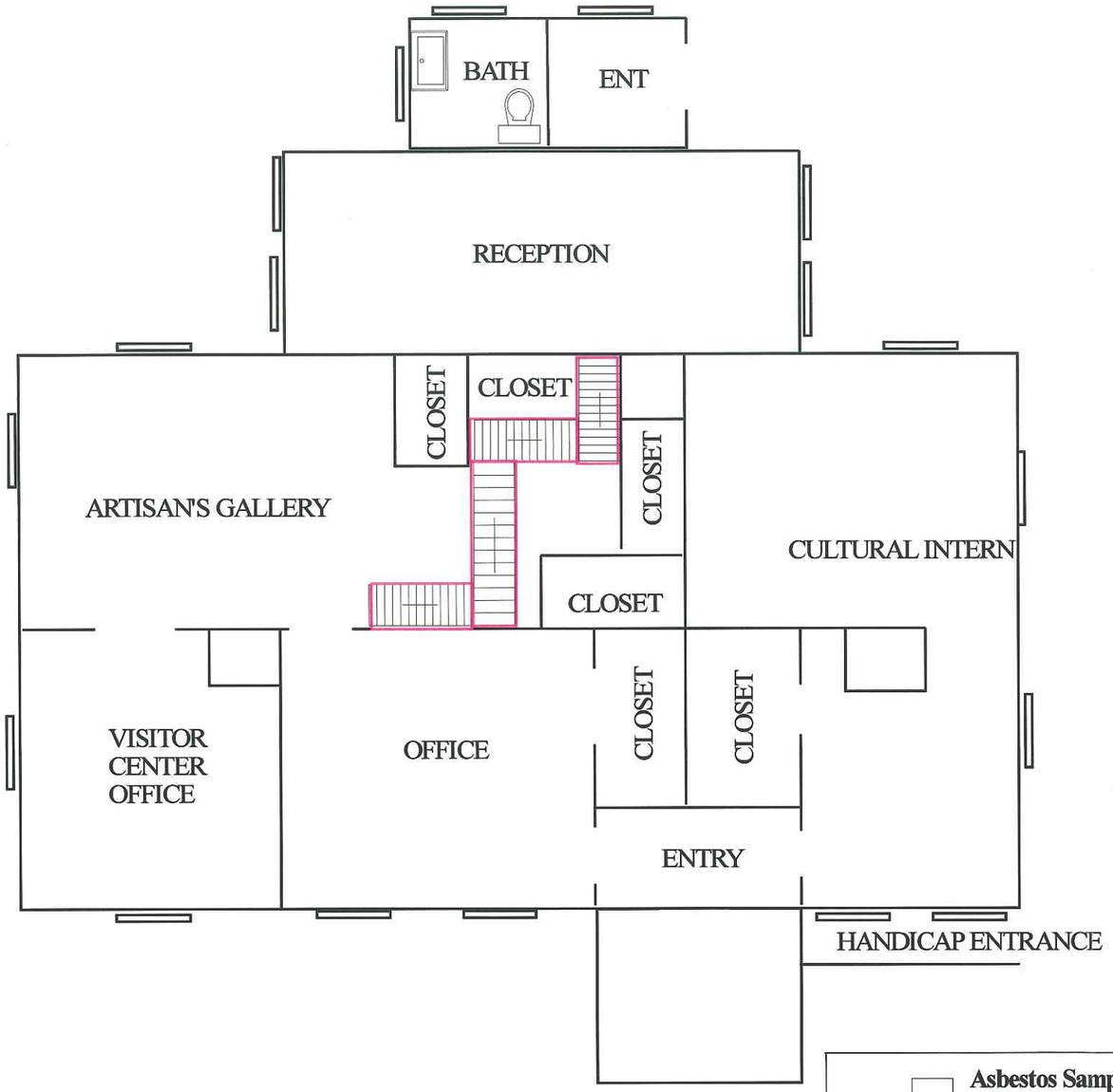
1. The disturbance or dislocation of asbestos-containing building materials (ACBM) may cause asbestos fibers to be released into the atmosphere, thereby creating a potential health hazard to workers and/or building occupants. Activities that disturb ACBM are subject to compliance with OSHA regulations (29CFR 1910.1001 & 29 CFR 1926.1101) and Maine's Chapter 425, "Asbestos Management Regulations". Workers, supervisory personnel, subcontractors and consultants who will be at the job site should be advised of the presence of identified ACBM, of the need to follow proper work procedures including applicable regulations, and of the limitations of this survey.

2. When performing work in the general vicinity of ACBM identified in any survey, workers, supervisory personnel, subcontractors, and/or consultants should take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to asbestos. Such measures shall include the procedures and methods described herein, and compliance with regulations and guidelines of applicable federal, state and local agencies.

3. The locations and types of ACBM, identified in this survey or presumed to be asbestos, are detailed in this report and on the attached drawings. If any other ACBM or PACM is noted during future renovation or demolition activities, they should be sampled and analyzed by a Maine DEP-licensed consultant and lab.

CAD DRAWINGS

AQM



Lead Inspection Results (Positive Only)

Lead Paint Hazards Were Identified
consult XRF survey results

Asbestos Inspection Results (Positive Only)

No Asbestos Hazards Were Identified

Asbestos Sample Location (B# - Bulk)	Asbestos Containing Material (Confirmed by Laboratory Testing)
Presumed Asbestos Containing Transite Panel Material	Approximate Location of Wall Locations of Transite Panels
Presumed Asbestos Containing Thermal System Insulation	Lead Containing Paint on Ceilings/Floors (see Inspection Results)
Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

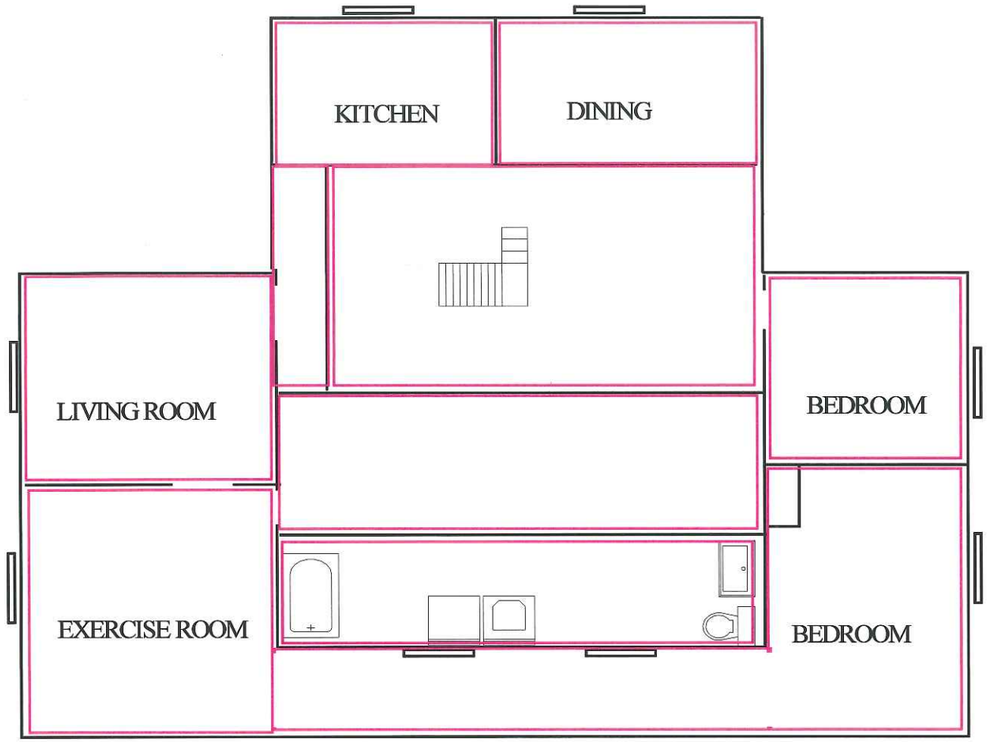
Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

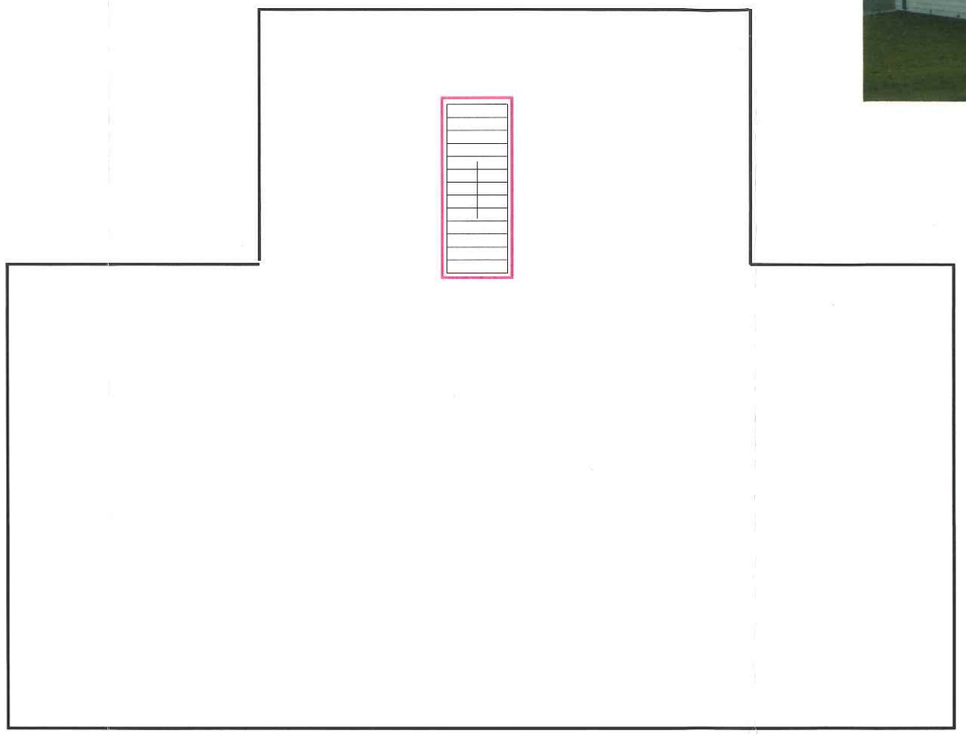
Client: **Maine Bureau of General Services**
Park & Recreation Department

Project: **Asbestos & Lead Paint Survey**

Address: **Quoddy Head State Park**
Visitor's Center - 1st Floor
Lubec, Maine

AQM Project: **04-198**	Claim/File:
Date: **8/27/2004**	Scale: **NONE**





Lead Inspection Results (Positive Only)

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consult XRF survey results

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Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

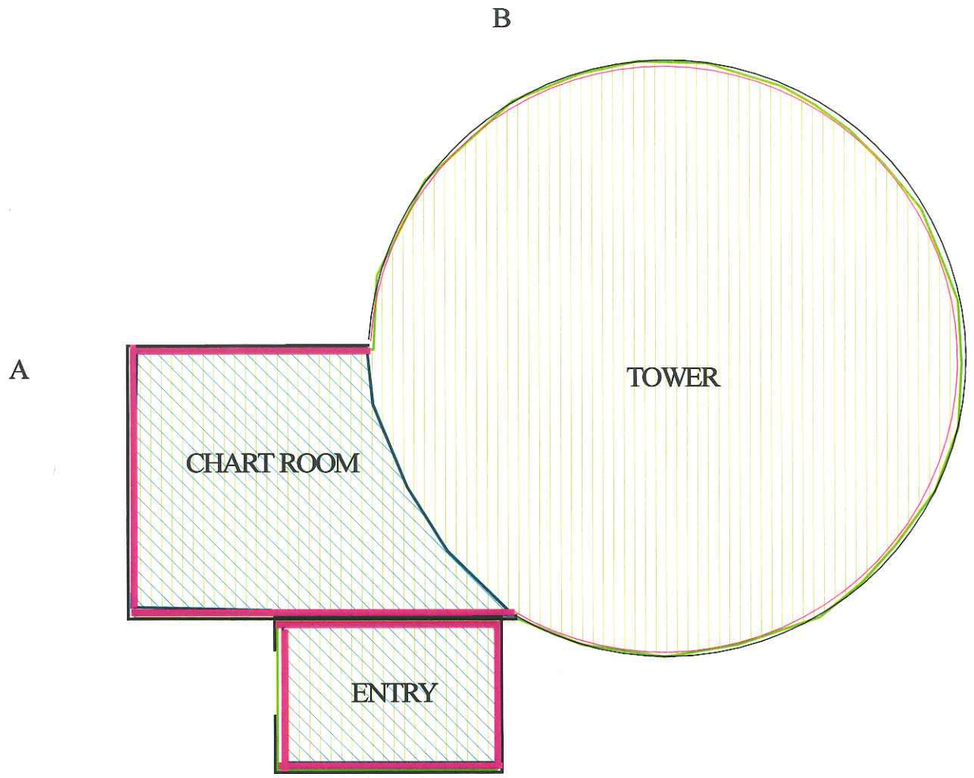
Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

Client: **Maine Bureau of General Services**
Park & Recreation Department

Project: **Asbestos & Lead Paint Survey**

Address: **Quoddy Head State Park**
Visitor's Center/Park Manager's Residence
2nd Floor & Basement
Lubec, Maine

AQM Project: **04-198**	Claim/File:
Date: **8/27/2004**	Scale: **NONE**



Lead Inspection Results (Positive Only)

Lead Paint Hazards Were Identified
consult XRF survey results

Asbestos Inspection Results (Positive Only)

Room/Location	Building Item	Material	Color	Size (sqft)
Exterior	Roof System	Shingles	gray	600 sq/ft

Asbestos Sample Location (B# - Bulk)	Asbestos Containing Material (Confirmed by Laboratory Testing)
Presumed Asbestos Containing Transite Panel Material	Approximate Location of Wall Locations of Transite Panels
Presumed Asbestos Containing Thermal System Insulation	Lead Containing Paint on Ceilings/Floors (see Inspection Results)
Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

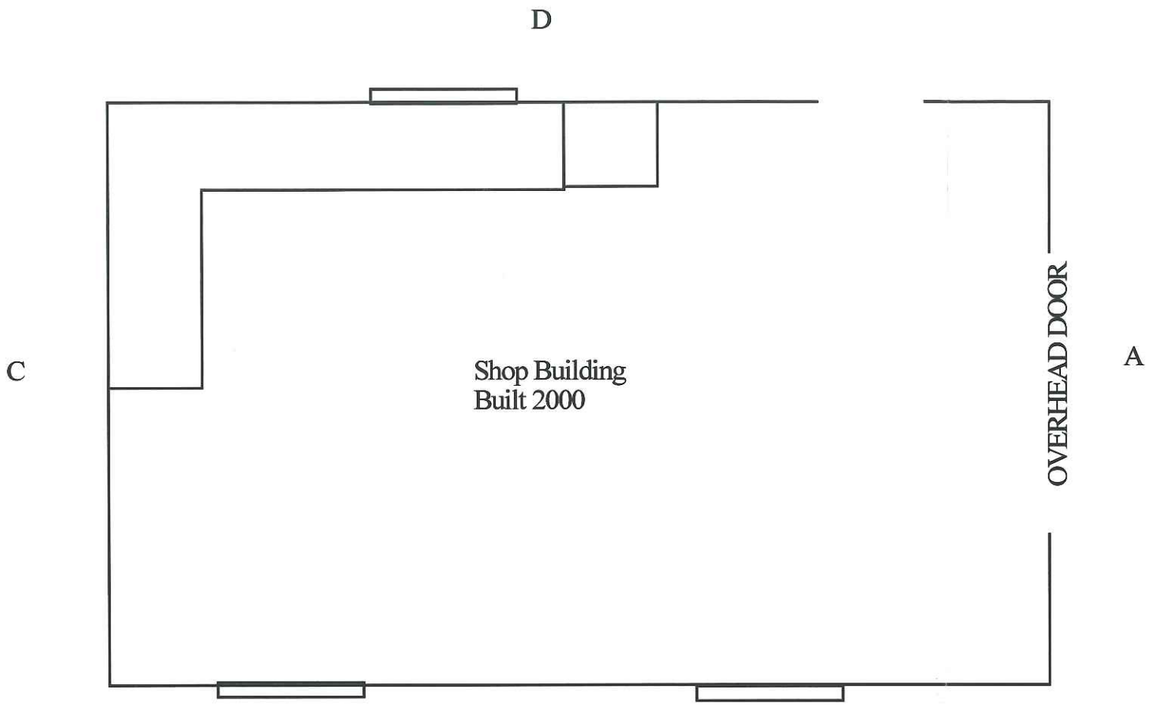
Client: **Maine Bureau of General Services**
Park & Recreation Department

Project: **Asbestos & Lead Paint Survey**

Address: **Quoddy Head State Park**
Quoddy Head Light
Lubec, Maine

AQM Project: **04-198** | Claim/File:

Date: **8/27/2004** | Scale: **NONE**



Lead Inspection Results (Positive Only)

No Lead Paint Hazards Were Identified

Asbestos Inspection Results (Positive Only)

No Asbestos Hazards Were Identified

Asbestos Sample Location (B# - Bulk)	Asbestos Containing Material (Confirmed by Laboratory Testing)
Presumed Asbestos Containing Transite Panel Material	Approximate Location of Wall Locations of Transite Panels
Presumed Asbestos Containing Thermal System Insulation	Lead Containing Paint on Ceilings/Floors (see Inspection Results)
Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

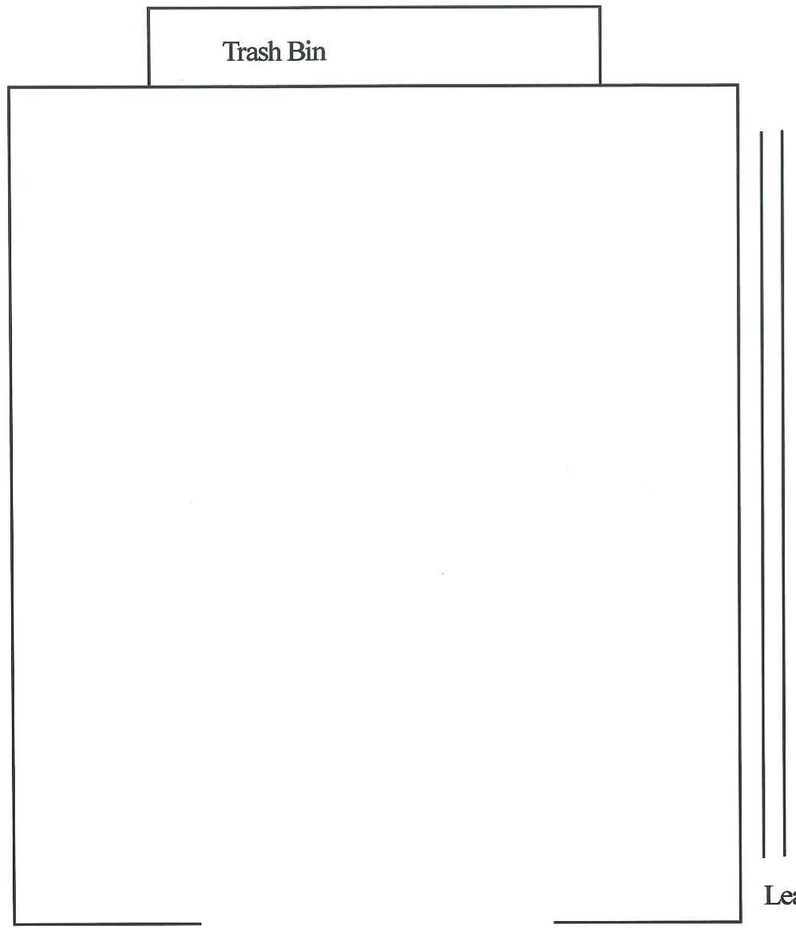
Client: **Maine Bureau of General Services**
Park & Recreation Department

Project: **Asbestos & Lead Paint Survey**

Address: **Quoddy Head State Park**
Shop Building
Lubec, Maine

AQM Project: **04-198** | Claim/File:

Date: **8/27/2004** | Scale: **NONE**



Lead Inspection Results (Positive Only)

No Lead Paint Hazards Were Identified

Asbestos Inspection Results (Positive Only)

No Asbestos Hazards Were Identified

Asbestos Sample Location (B# - Bulk)	Asbestos Containing Material (Confirmed by Laboratory Testing)
Presumed Asbestos Containing Transite Panel Material	Approximate Location of Wall Locations of Transite Panels
Presumed Asbestos Containing Thermal System Insulation	Lead Containing Paint on Ceilings/Floors (see Inspection Results)
Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

Client: Maine Bureau of General Services
Park & Recreation Department

Project: Asbestos & Lead Paint Survey

Address: Quoddy Head State Park
Shop Storage Building
Lubec, Maine

AQM Project: 04-198	Claim/File:
Date: 8/27/2004	Scale: NONE

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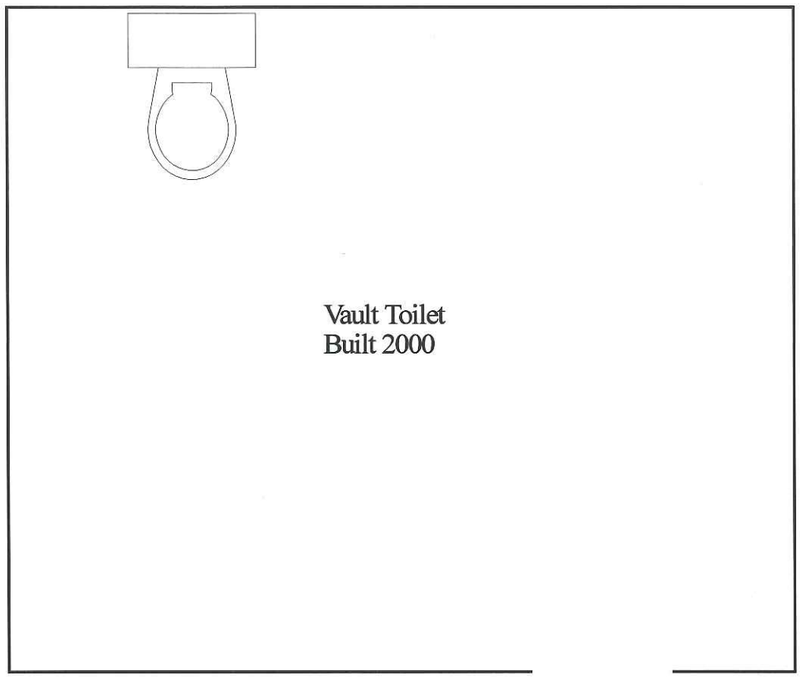


D

A

A

Lead Inspection Results (Positive Only)

No Lead Paint Hazards Were Identified

Asbestos Inspection Results (Positive Only)

No Asbestos Hazards Were Identified

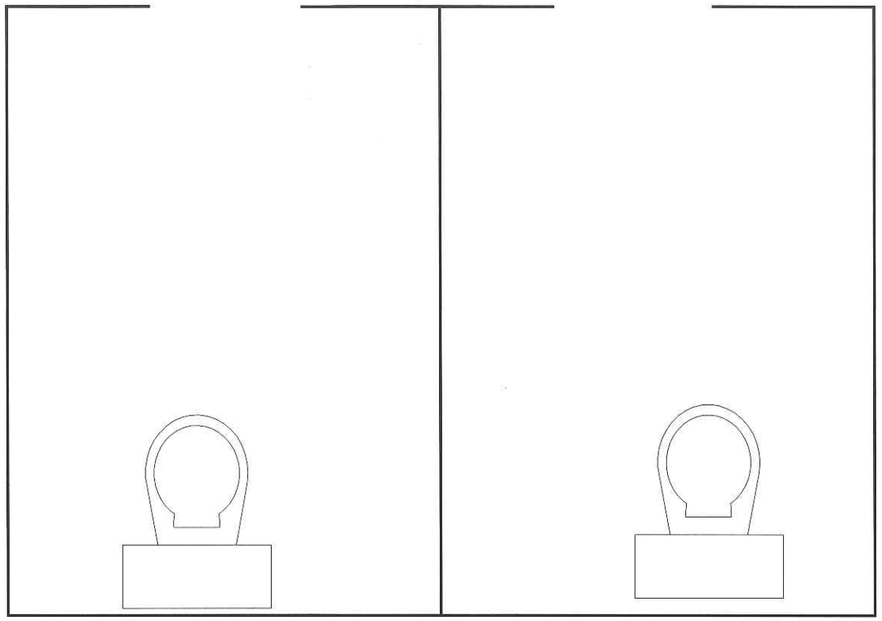
Asbestos Sample Location (B# - Bulk)	Asbestos Containing Material (Confirmed by Laboratory Testing)
Presumed Asbestos Containing Transite Panel Material	Approximate Location of Wall Locations of Transite Panels
Presumed Asbestos Containing Thermal System Insulation	Lead Containing Paint on Ceilings/Floors (see Inspection Results)
Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

Client:	Maine Bureau of General Services Park & Recreation Department
Project:	Asbestos & Lead Paint Survey
Address:	Quoddy Head State Park Shop Vault Toilet Lubec, Maine
AQM Project: 04-198	Claim/File:
Date: 8/27/2004	Scale: NONE

A

D



A

Vault Toilet
Built 2000

C

Lead Inspection Results (Positive Only)

No Lead Paint Hazards Were Identified

Asbestos Inspection Results (Positive Only)

No Asbestos Hazards Were Identified

Asbestos Sample Location (B# - Bulk)	Asbestos Containing Material (Confirmed by Laboratory Testing)
Presumed Asbestos Containing Transite Panel Material	Approximate Location of Wall Locations of Transite Panels
Presumed Asbestos Containing Thermal System Insulation	Lead Containing Paint on Ceilings/Floors (see Inspection Results)
Presumed Asbestos Containing Roofing Material	Approximate Location of Lead Painted Materials (not Ceilings or Floors)

Air Quality Management Services
PO Box 865, Gray, Maine 04039
Phone: (207) 657-7360 Fax: (207) 657-7361

Client: Maine Bureau of General Services
Park & Recreation Department

Project: Asbestos & Lead Paint Survey

Address: Quoddy Head State Park
Day Use Area Vault Toilet
Lubec, Maine

AQM Project: 04-198	Claim/File:
Date: 8/27/2004	Scale: NONE

ESTIMATED ABATEMENT COSTS

AQM

Estimated Asbestos Abatement Costs

Quoddy Head Light – Chart Room Section

Roof:
- Abatement Design - $360
- Bidders Walkthrough - $250
- Visual Clearance Fee - $400

Roof Material Abatement - $1600 - $2400

Note: All Roofing should be sampled prior to any abatement to determine presence of asbestos.

Estimated LBP Abatement Costs

1. If abatement of the lead containing paint is warranted then the estimated cost for the remedial activities are as follows:

   - **Visitor's Center/Manager's Residence** - $3500 - $4500
   - **Quoddy Head Light** - $12,000- $15,000

XRF LEAD SAMPLE RESULTS

AQM

Room/Location	Level	Wall	Building Item	Material	Color	Reading	Result
Exterior		A	Siding	Aluminum	White	0.0	**Negative**
Exterior		A	Windows Casing	Wood	White	0.1	**Negative**
Exterior		A	Corner Board	Aluminum	White	0.0	**Negative**
Exterior		A	Window Sash	Wood	White	-0.4	**Negative**
Exterior		A	Cellar Window Sash	Wood	White	-0.1	**Negative**
Exterior		B	Handicap Rail	Wood	Gray	-0.4	**Negative**
Exterior		B	Handicap Entry Door	Wood	White	-0.2	**Negative**
Exterior		B	Handicap Door Trim	Wood	White	-0.1	**Negative**
Exterior		C	Siding	Aluminum	White	0.0	**Negative**
Exterior		C	Bilco door	Metal	Red	-0.4	**Negative**
Exterior		A	Entry Railing	Aluminum	Black	-0.7	**Negative**
Interior	Interior Renovated (TC Used)						**Negative**
Interior	Office	TC	Window Sash			0.1	**Negative**
Interior	Office	TC	Window Casing			0.3	**Negative**
Interior	Office	TC	Window Trim			0.1	**Negative**
Interior	Office	TC	Floor Trim			-0.3	**Negative**
Interior	Office	TC	Wall			-0.2	**Negative**
Interior	Cult. Room/Closet	A	Stair Tread	Wood	Gray	1.0	**POSITIVE**
Interior	Cult. Room/Closet	A	Stair Riser	Wood	Gray	>9.9	**POSITIVE**
Interior	Cult. Room/Closet	A	Stair Trim	Wood	Yellow	>9.9	**POSITIVE**
Interior	Cult. Room/Closet	A	Upper Wall	Plaster	Gray	-0.1	**Negative**
Interior	Cult. Room/Closet	A	Railing	Wood	Yellow	>9.9	**POSITIVE**
Interior	Cult. Room/Closet	A	Lower Wall	Plaster	Gray	0.1	**Negative**
Interior	Cult. Room/Closet	A	Wall Trim	Wood	Yellow	>9.9	**POSITIVE**
Interior	Cult. Room/Closet		Ceiling	Plaster	Gray	5.9	**POSITIVE**
Interior	Basement	A	Wall	Brick	Yellow	>9.9	**POSITIVE**
Interior	Basement	D	Tread	Wood	Blue	>9.9	**POSITIVE**
Interior	Basement	D	Riser	Wood	Blue	>9.9	**POSITIVE**
Interior	Basement		Post	Metal	Red	0.0	**Negative**
Interior	Basement	C	1/2 Door	Wood	White	0.0	**Negative**

AQM

Room/Location	Level	Wall	Building Item	Material	Color	Reading	Result
Interior	Basement	C	1/2 Door Trim	Wood	White	-0.1	**Negative**

Room/Location	Level	Wall	Building Item	Material	Color	Reading	Result
Interior	Stairwell	A	Tread	Rubber/Wood	Brown	-0.4	**Negative**
Interior	Stairwell	A	Riser	Rubber/Wood	Brown	-0.1	**Negative**
Interior	Stairwell	A	Stair Trim	Wood	Blue	>9.9	**POSITIVE**
Interior	Stairwell	A	Wall	Drywall	White	0.2	**Negative**
Interior	Stairwell	C	Wall	Plaster	White	1.5	**POSITIVE**
Interior	2nd Floor		Testing combinations used for all rooms except bath/laundry				**Negative**
Interior	2nd Floor		Floor	Carpet	Brown	0.1	**Negative**
Interior	2nd Floor	A	Floor Trim	Wood	Blue	>9.9	**POSITIVE**
Interior	2nd Floor	B	Door Trim	Wood	Blue	>9.9	**POSITIVE**
Interior	2nd Floor	D	Door Frame	Wood	Blue	>9.9	**POSITIVE**
Interior	2nd Floor	A	Landing Railing	Wood	Blue	>9.9	**POSITIVE**
Interior	2nd Floor	A	Window Sash	Wood	Blue	0.0	**Negative**
Interior	2nd Floor	A	Window Casing	Wood	Blue	0.0	**Negative**
Interior	2nd Floor	A	Window Trim	Wood	Blue	0.0	**Negative**
Interior	2nd Floor	C	Wall	Plaster	White	0.8	**Negative**
Interior	2nd Floor		Ceiling	Plaster	White	0.0	**Negative**
Interior	2nd Floor	C	Door	Wood	Cream	>9.9	**POSITIVE**

Room/Location	Level	Wall	Building Item	Material	Color	Reading	Result
Exterior	Chart Room Section	A	Wall Shingles	Cedar	White	0.0	**Negative**
Exterior	Chart Room Section	A	Corner Board	Wood	White	-0.2	**Negative**
Exterior	Chart Room Section	A	Door Trim	Wood	White	0.1	**Negative**
Exterior	Chart Room Section	A	Door	Metal	White	-0.4	**Negative**
Exterior	Head Light	D	Tower Wall	Brick	Red	0.5	**Negative**
Exterior	Head Light	D	Tower Wall	Brick	White	0.2	**Negative**
Exterior	Head Light	D	Window Stool	Wood	White	0.2	**Negative**
Exterior	Head Light	D	Window Trim	Wood	White	0.2	**Negative**
Interior	Entry		Floor	Cement	Blue	6.9	**POSITIVE**
Interior	Entry		Ceiling	Wood	White	9.9	**POSITIVE**
Interior	Entry	A	Wall	Paneling	Brown	-0.4	**Negative**
Interior	Chart Room		Floor	Cement	Blue	6.9	**POSITIVE**
Interior	Chart Room		Ceiling	Plaster	White	9.9	**POSITIVE**
Interior	Chart Room	A	Wall (above Paneling)	Brick	White	9.9	**POSITIVE**
Interior	Chart Room	C	Door Casing	Metal	White	9.9	**POSITIVE**
Interior	Passage to Light		Floor	Cement	Gray	6.1	**POSITIVE**
Interior	Passage to Light		Ceiling	Cement	White	5.3	**POSITIVE**
Interior	Passage to Light	B	Wall	Brick	White	2.1	**POSITIVE**
Interior	Light Tower		Floor	Cement	Gray	6.1	**POSITIVE**
Interior	Light Tower	C	Stairwell Post	Metal	Gray	-0.1	**Negative**
Interior	Light Tower	C	Stair Tread	Metal	Gray	0.1	**Negative**
Interior	Light Tower		Stairwell Top Plate	Metal	Gray	6.5	**POSITIVE**

AQM

Room/Location	Level	Wall	Building Item	Material	Color	Reading	Result
Exterior		A	Door	Plywood	Gray	0.2	**Negative**
Exterior		A	Door Trim	Wood	Gray	0.2	**Negative**
Exterior		A	Wall	T-111	Gray	0.2	**Negative**
Exterior		B	Corner Board	Wood	Gray	0.2	**Negative**
Exterior		B	Facia Board	Wood	Gray	0.1	**Negative**
Exterior		B	Rafter	Wood	Gray	0.1	**Negative**
Exterior		C	Trash Bin Top	Plywood	Gray	-0.2	**Negative**
Exterior		C	Trash Bin Side	Plywood	Gray	0.0	**Negative**
Exterior		C	Siding	Plywood	Gray	0.1	**Negative**
Exterior		D	Siding	Plywood	Gray	0.2	**Negative**

Air Quality Management Services, Inc.
"Discovering Solutions for Healthier Living"

RENOVATION IMPACT SURVEY

QUODDY HEAD LIGHT HOUSE

973 SOUTH LUBEC ROAD – LUBEC, MAINE

PREPARED FOR

Bureau of General Services
Nick Ferrala
77 SHS, 4th Floor
Augusta, Maine 04333-0077

Date of Inspection

June 12th, 2024

AQM PROJECT #24-406

Randy Geoffroy, CMI
MEDEP Cert #: Asbestos Inspector AI-0395

TABLE OF CONTENTS

EXECUTIVE SUMMARY

Air Quality Management Services, Inc. (AQM) was retained to conduct a hazardous material evaluation to prepare for renovations in the Lighthouse. The Lighthouse is located on the grounds of Quoddy Head State Park at 973 South Lubec Road in Lubec, Maine. Testing was conducted in the Map Room and on some surfaces on the exterior of the building (window caulking and coatings) to identify potential Asbestos Containing Building Materials and to determine Polychlorinated Biphenyls (PCBs) in caulking / glazing (windows). This survey was conducted by Mr. Randy Geoffroy (certified asbestos inspector) of Air Quality Management Services, Inc. This survey was conducted on June 12th, 2024.

ASBESTOS BULK SAMPLING

AQM collected bulk samples from suspected building materials in the Map Room and from coatings on the exterior and window caulking. Bulk samples were collected and analyzed by Polarized Light Microscopy (PLM) using EPA 600/R-93/116 and / or EPA 600/M4-82-020 methodologies. Please refer to the Excel spreadsheet of this report for a detailed break-down of the samples and the results.

Asbestos containing material means any material containing asbestos in quantities greater than or equal to 1%. Asbestos containing building materials **were not** identified in this sampling event. Refer to attached Excel spreadsheets for further details regarding locations and areas.

All testing of suspect materials was in accordance with OSHA 29 CFR 1926.1101, and the State of Maine Chapter 425 Asbestos Management Regulations.

PCB SAMPLING

AQM collected bulk samples from window caulking. Bulk samples were collected and analyzed using EPA SW-846 method 3540C. Please refer to the Excel spreadsheet of this report for a detailed outline of the samples and the results.

PCB-containing caulkings / glazings are defined as being at or above concentration of ≥50 PPM. Samples collected for this assignment did not detect PCB.

OBSERVATIONS

Plaster ceiling in the Map Room is damaged and AQM found roof shingle debris on top side of this ceiling, therefore suggesting testing of this debris (for asbestos) as it will be impacted during renovations.

SURVEY LIMITATIONS

As with any scientific study, there are certain assumptions which are made, and certain limitations to the scope of information that can be derived. Some restrictions on the conduct of the survey are imposed by outside sources while others are established through the designed scope and methodology of the study. This survey is subject to a variety of limitations and restrictions. Limitations that should be considered in the interpretation of the results of this survey include the following:

A. Surveys may not be able to identify all hazardous materials present throughout a facility. A thorough study should be capable of identifying approximately 95 percent of accessible materials.

B. The inspection protocols used for this project were in accordance with U.S. Environmental Protection Agency (USEPA) - National Emission Standard for Hazardous Air Pollutants (NESHAP) and with the Maine Department of Environmental Protection (MEDEP) protocols.

C. Limitations to the scope of the survey can result from limited access to hidden materials and areas. For example, multiple layers of materials or structural components may restrict access to suspect materials thus affecting the thoroughness of the survey. In most cases surveys are limited to accessible suspect materials with some minor demolition or destructive sampling.

D. In some cases, hidden materials may be identified during renovations, general maintenance or demolition. Due to the limited nature of this survey, AQM recommends any suspect material not identified in this report be sampled and analyzed or treated as (asbestos / PCB / Lead) until otherwise determined.

ASBESTOS HAZARDS / ABATEMENT OPTIONS

Asbestos containing material means any material containing asbestos in quantities greater than or equal to 1%. Removal & Disposal of materials at tested is / are not regulated by the State of Maine DEP and/or the Occupational Safety and Health Administration (OSHA).

PCB ABATEMENT OPTIONS

PCB-containing caulking / glazing were not identified in the survey.

AQM Project #24-406

ASBESTOS BULK SAMPLING RESULTS

AQM

Polarized Light Microscopy (PLM) using EPA 600/R-93/116 and / or EPA 600/M4-82-020 methodologies				
Sample #	**Location**	**Material**	**% Asbestos**	**Type**
B1 - B3	Map Room	Plaster Ceiling	None Detected	
B4 - B6	Exterior	South Window - Window Glazing	None Detected	
B7 - B9	Exterior	Textured Finish on Side of Lighthouse	None Detected	
B10 - B12	Interior	Wall Panel Adhesive	None Detected	
B13 - B15	Map Room	Roof Shingle Debris above Plaster Ceiling	None Detected	

AQM

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 042412062

Company: Air Quality Management Services	**EMSL-Bill to:** ☑ Different ☐ Same If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: PO Box 2491	
City: Lewiston **State/Province:** ME	**Zip/Postal Code:** 04241 **Country:** United States
Report To (Name): Randy Geoffroy	**Telephone #:** 207-657-7360
Email Address: See Account Notes	**Fax #:** 207-657-7361 **Purchase Order:** 24-406
Project Name/Number: 24-406 - Lubec	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: Maine	**Connecticut Samples:** ☐ Commercial ☐ Residential

Turnaround Time (TAT) Options* – Please Check

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

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

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

PLM - Bulk (reporting limit)
- ■ PLM EPA 600/R-93/116 (<1%)
- ■ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

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

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

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

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

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

Other:
- ☐

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

Samplers Name: Randy Geoffroy AI0395 **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
B1 - B3	Map Room Plaster Ceiling		6/12/24
B4 - B6	South Window - Window Glazing		
B7 - B9	Textured Finish Exterior		
B10 - B12	Wall Panel Adhesive (interior)		
B13 - B15	Roof Shingle Debris above Plaster Ceiling in Map Room		

Client Sample # (s): B1 - B15 **Total # of Samples:** 15

Relinquished (Client): **Date:** 6/17/24 **Time:** 1530

Received (Lab): EFT **Date:** 6/14/24 **Time:** 9:30

Comments/Special Instructions:

Email invoices to: connie@aqmservices.com

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order ID:	042412062
Customer ID:	AIRQ51
Customer PO:	24-406
Project ID:	

Attn: Randy Geoffroy
Air Quality Management Services, Inc.
PO Box 2491
Lewiston, ME 04241

Proj: 24-406 - Lubec

Phone:	(207) 657-7360
Fax:	(207) 657-7361
Collected:	
Received:	6/14/2024
Analyzed:	6/18/2024

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: B1 ***Lab Sample ID:*** **042412062-0001**
Sample Description: Map Room/Plaster Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/17/2024	Gray	3.0%	97.0%	None Detected	

Client Sample ID: B2 ***Lab Sample ID:*** **042412062-0002**
Sample Description: Map Room/Plaster Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/17/2024	Gray	4.0%	96.0%	None Detected	

Client Sample ID: B3 ***Lab Sample ID:*** **042412062-0003**
Sample Description: Map Room/Plaster Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/18/2024	Gray	7.0%	93.0%	None Detected	

Client Sample ID: B4 ***Lab Sample ID:*** **042412062-0004**
Sample Description: South Window/Window Glazing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/17/2024	White	0.0%	100%	None Detected	

Client Sample ID: B5 ***Lab Sample ID:*** **042412062-0005**
Sample Description: South Window/Window Glazing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/17/2024	White	0.0%	100%	None Detected	

Client Sample ID: B6 ***Lab Sample ID:*** **042412062-0006**
Sample Description: South Window/Window Glazing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/18/2024	White	0.0%	100%	None Detected	

Client Sample ID: B7 ***Lab Sample ID:*** **042412062-0007**
Sample Description: Exterior/Textured Finish

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/17/2024	White/Red	0.0%	100.0%	None Detected	Inseparable paint / coating layer included in analysis

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
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http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order ID:	042412062
Customer ID:	AIRQ51
Customer PO:	24-406
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material

Client Sample ID: B8 ***Lab Sample ID:*** **042412062-0008**

Sample Description: Exterior/Textured Finish

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/17/2024	White/Red	0.0%	100.0%	None Detected	

Client Sample ID: B9 ***Lab Sample ID:*** **042412062-0009**

Sample Description: Exterior/Textured Finish

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/18/2024	Brown/White	0.0%	100.0%	None Detected	

Client Sample ID: B10 ***Lab Sample ID:*** **042412062-0010**

Sample Description: Interior/Wall Panel Adhesive

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/17/2024	Tan	0.0%	100%	None Detected	

Client Sample ID: B11 ***Lab Sample ID:*** **042412062-0011**

Sample Description: Interior/Wall Panel Adhesive

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/17/2024	Tan	0.0%	100%	None Detected	

Client Sample ID: B12 ***Lab Sample ID:*** **042412062-0012**

Sample Description: Interior/Wall Panel Adhesive

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/18/2024	Tan	0.0%	100%	None Detected	

Client Sample ID: B13 ***Lab Sample ID:*** **042412062-0013**

Sample Description: Map Room/Roof Shingle Debris above Plaster Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/17/2024	Black	0.0%	100%	None Detected	

Client Sample ID: B14 ***Lab Sample ID:*** **042412062-0014**

Sample Description: Map Room/Roof Shingle Debris above Plaster Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/17/2024	Gray/Black	0.0%	100%	None Detected	

Client Sample ID: B15 ***Lab Sample ID:*** **042412062-0015**

Sample Description: Map Room/Roof Shingle Debris above Plaster Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM Grav. Reduction	6/18/2024	White/Black	0.0%	100%	None Detected	

EMSL Analytical, Inc.
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http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order ID:	042412062
Customer ID:	AIRQ51
Customer PO:	24-406
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material

PLM: Cert# BA-0237(MB) Cert# BA-0093(DP)

PLM EPA NOB: Cert# BA-0237(MB) Cert# BA-0093(DP)

Analyst(s):

Dave Poitras	PLM (2) PLM Grav. Reduction (3)
Michael Bocchicchio	PLM (4) PLM Grav. Reduction (6)

Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA LAP, LLC-IHLAP Lab 100194, PA ID# 68-00367, LA #04127

Initial report from: 06/18/202411:23:05

AQM Project #24-406

PCB BULK SAMPLING RESULTS

AQM

EPA SW-846 Method: 3540C				
Sample #	**Location**	**Material**	**Result (PPM)**	**Parameter**
P1	Exterior	Glazing on West Side Window	None Detected	
P2	Exterior	Caulking on South Side Window	None Detected	

ANALYTICAL REPORT

Lab Number:	L2433312
Client:	Air Quality Managment Services, Inc. PO Box 2491 Lewiston, ME 04241
ATTN:	Randy Geoffroy
Phone:	(207) 657-7360
Project Name:	24-406 - LUBEC
Project Number:	24-406
Report Date:	06/20/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 24-406 - LUBEC
Project Number: 24-406

Lab Number: L2433312
Report Date: 06/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2433312-01	P1 - GLAZING W WINDOW	SOLID	LUBEC, MAINE	06/12/24 00:00	06/13/24
L2433312-02	P2 - CAULKING S WINDOW	SOLID	LUBEC, MAINE	06/12/24 00:00	06/13/24

Project Name:	24-406 - LUBEC	**Lab Number:**	L2433312
Project Number:	24-406	**Report Date:**	06/20/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	24-406 - LUBEC	**Lab Number:**	L2433312
Project Number:	24-406	**Report Date:**	06/20/24

Case Narrative (continued)

PCBs

L2433312-02: The sample has elevated detection limits due to limited sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 06/20/24

ORGANICS

PCBS

Project Name: 24-406 - LUBEC
Project Number: 24-406
Lab Number: L2433312
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2433312-01
Client ID: P1 - GLAZING W WINDOW
Sample Location: LUBEC, MAINE

Date Collected: 06/12/24 00:00
Date Received: 06/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 06/18/24 11:49
Analyst: MEO
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 06/16/24 14:30
Cleanup Method: EPA 3630
Cleanup Date: 06/17/24
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/24
Cleanup Method: EPA 3660B
Cleanup Date: 06/18/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	637	--	1	A
Aroclor 1221	ND		ug/kg	637	--	1	A
Aroclor 1232	ND		ug/kg	637	--	1	A
Aroclor 1242	ND		ug/kg	318	--	1	A
Aroclor 1248	ND		ug/kg	637	--	1	A
Aroclor 1254	ND		ug/kg	637	--	1	A
Aroclor 1260	ND		ug/kg	637	--	1	A
Aroclor 1262	ND		ug/kg	637	--	1	A
Aroclor 1268	ND		ug/kg	318	--	1	A
PCBs, Total	ND		ug/kg	318	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: 24-406 - LUBEC
Project Number: 24-406
Lab Number: L2433312
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2433312-02
Client ID: P2 - CAULKING S WINDOW
Sample Location: LUBEC, MAINE

Date Collected: 06/12/24 00:00
Date Received: 06/13/24
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 06/18/24 11:59
Analyst: MEO
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 06/16/24 14:30
Cleanup Method: EPA 3630
Cleanup Date: 06/17/24
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/24
Cleanup Method: EPA 3660B
Cleanup Date: 06/18/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	1460	--	1	A
Aroclor 1221	ND		ug/kg	1460	--	1	A
Aroclor 1232	ND		ug/kg	1460	--	1	A
Aroclor 1242	ND		ug/kg	730	--	1	A
Aroclor 1248	ND		ug/kg	1460	--	1	A
Aroclor 1254	ND		ug/kg	1460	--	1	A
Aroclor 1260	ND		ug/kg	1460	--	1	A
Aroclor 1262	ND		ug/kg	1460	--	1	A
Aroclor 1268	ND		ug/kg	730	--	1	A
PCBs, Total	ND		ug/kg	730	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	40		30-150	B

Project Name: 24-406 - LUBEC
Project Number: 24-406
Lab Number: L2433312
Report Date: 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/18/24 10:49
Analyst: MEO

Extraction Method: EPA 3540C
Extraction Date: 06/16/24 08:30
Cleanup Method: EPA 3630
Cleanup Date: 06/17/24
Cleanup Method: EPA 3665A
Cleanup Date: 06/18/24
Cleanup Method: EPA 3660B
Cleanup Date: 06/18/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1934919-1						
Aroclor 1016	ND		ug/kg	633	--	A
Aroclor 1221	ND		ug/kg	633	--	A
Aroclor 1232	ND		ug/kg	633	--	A
Aroclor 1242	ND		ug/kg	316	--	A
Aroclor 1248	ND		ug/kg	633	--	A
Aroclor 1254	ND		ug/kg	633	--	A
Aroclor 1260	ND		ug/kg	633	--	A
Aroclor 1262	ND		ug/kg	633	--	A
Aroclor 1268	ND		ug/kg	316	--	A
PCBs, Total	ND		ug/kg	316	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	39		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 24-406 - LUBEC

Project Number: 24-406

Lab Number: L2433312

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1934919-2 WG1934919-3									
Aroclor 1016	50		56		40-140	11		50	A
Aroclor 1260	49		48		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		58		30-150	A
Decachlorobiphenyl	53		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		61		30-150	B
Decachlorobiphenyl	55		53		30-150	B

Project Name: 24-406 - LUBEC
Project Number: 24-406

Lab Number: L2433312
Report Date: 06/20/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2433312-01A	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		PCB-8082-CAULK(365)
L2433312-02A	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		PCB-8082-CAULK(365)

*Values in parentheses indicate holding time in days

Project Name:	24-406 - LUBEC	**Lab Number:**	L2433312
Project Number:	24-406	**Report Date:**	06/20/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	24-406 - LUBEC	**Lab Number:**	L2433312
Project Number:	24-406	**Report Date:**	06/20/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	24-406 - LUBEC	**Lab Number:**	L2433312
Project Number:	24-406	**Report Date:**	06/20/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	24-406 - LUBEC	**Lab Number:**	L2433312
Project Number:	24-406	**Report Date:**	06/20/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE OF

ALPHA ANALYTICAL — World Class Chemistry

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/13/24

ALPHA Job #: L2433312

Project Information

Project Name: 24-406 - Lubec

Project Location: Lubec, Maine

Project #: 24-406

Project Manager: Randy Geoffroy

ALPHA Quote #:

Client Information

Client: Air Quality Management Services

Address: PO Box 2491

Lewiston, Maine 04241

Phone: 207-831-1078

Fax:

Email: randy@aqmservices.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information — Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program | Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCB
33312 01	P1 - Glazing W Window	6/12/24		Bulk	RG	☒
02	P2 - Caulking S Window	6/12/24		Bulk	RG	☒

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01(I) (rev. 5-JAN-12)

Container Type: Glass Jar

Preservative: Ice Pack

Relinquished By:	Date/Time	Received By:	Date/Time
	6/13/24 0900	ML	6/13/24 1350
AAL	6/13/24 1750		6/13/24 1750
	6/13/24 1945		6/13/24 1945

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

AQM Project #24-406

PHOTO DOCUMENTATION

AQM

Photo Oder – top to bottom left, top to bottom right

Map Room:

General view of Plaster Ceiling

Roof shingle debris above Plaster Ceiling

Exterior:

View of South Window

View of window glazing on South Window

View of West Window

View of damaged coating on the exterior

Close-up image of coating on exterior

Emerson Jones

From: amycoleives@sutherlandcc.net
Sent: Friday, January 26, 2024 11:22 AM
To: Ellen Angel
Subject: West Quoddy Head paint

Good morning Ellen,

It was good speaking with you earlier about the West Quoddy Head Light paints that you sent me to take a look at. As I noted in our conversation, in looking at the paints that were sent, I am only seeing modern paint layers. The current red paint is on top of a gray primer and there is a partial weathered red paint under the most recent gray primer which overlaps in some places an off-white that I am assuming would be the white stripe.

None of these paints look like anything other than late 20th and early 21st century paints. Based on what I am seeing in the paint pieces sent to me, I do not see a reason to cast a sample for cross-section.

Please let me know if you have any additional questions. Amy

Amy Cole Ives
Sutherland Conservation
207-242-0618

00 41 13
Contractor Bid Form

Quoddy Head State Park Lighthouse and Map Room Renovations
BGS project number 3551

Bid Form submitted by: *email only to email address below*

Bid Administrator:

BGS.Architect@Maine.gov

Bidder:

Signature: _____

Printed name and title: _____

Company name: _____

Mailing address: _____

City, state, zip code: _____

Phone number: _____

Email address: _____

State of incorporation, if a corporation: _____

List of all partners, if a partnership: _____

The Bidder agrees, if the Owner offers to award the contract, to provide any and all bonds and certificates of insurance, as well as Schedule of Values, Project Schedule, and List of Subcontractors and Suppliers if required by the Owner, and to sign the designated Construction Contract within twelve calendar days after the date of notification of such acceptance, except if the twelfth day falls on a State of Maine government holiday or other closure day, or a Saturday, or a Sunday, in which case the aforementioned documents must be received before 12:00 noon on the first available business day following the holiday, other closure day, Saturday, or Sunday.

As a guarantee thereof, the Bidder submits, together with this bid, a bid bond or other acceptable instrument as and if required by the Bid Documents.

00 41 13
Contractor Bid Form

1. The Bidder, having carefully examined the *Quoddy Head State Park Lighthouse and Map Room Renovations* Project Manual dated *May 16, 2024*, prepared by *Artifex AE*, as well as Specifications, Drawings, and any Addenda, the form of contract, and the premises and conditions relating to the work, proposes to furnish all labor, equipment and materials necessary for and reasonably incidental to the construction and completion of this project for the **Base Bid** amount of:

   $ _____ .00

2. Allowances *are not included* on this project.
   No Allowances

   $ *0*.00

3. Alternate Bids *are included* on this project.
   Alternate Bids are as shown below
   Any dollar amount line below that is left blank by the Bidder shall be read as a bid of **$0.00**.

   1 Alternate No. 1 (AB#001 - Exterior Steel Painting) $ _____ .00

   2 Alternate No. 2 (AB#002 - Stair Painting) $ _____ .00

   3 "not used" $ _____ .00

   4 "not used" $ _____ .00

4. Bid security *is required* on this project.
   If noted above as required, or if the Base Bid amount exceeds $125,000.00, the Bidder shall include with this bid form a satisfactory Bid Bond (section 00 43 13) or a certified or cashier's check for 5% of the bid amount with this completed bid form submitted to the Owner.

5. Filed Sub-bids *are not required* on this project.
   If noted above as required, the Bidder shall include with this bid form a list of each Filed Sub-bidder selected by the Bidder on the form provided (section 00 41 13F).

Form revision date: 12 May 2023

AdvantageME CT# 00000000000000000000

State of Maine
CONSTRUCTION CONTRACT
Application for Payment

Project name
location / school / campus

Contractor Company name
address
city state zip code

Application Number: **1**
Period Start Date: 1-Jul-2020
Period End Date: 31-Jul-2020
BGS Project No.: n
Other Project No.: x

1	Original Contract Amount			$0
2	Net of Change Orders to Date	(from table below)		$0
3	Contract Sum to Date	(line 1 plus or minus line 2)		$0
4	Total Completed and Stored to Date	(column G on Continuation Sheet)		$0
5a	5% Retainage of Completed Work	(columns D + E x 5%)	$0	
5b	5% Retainage of Stored Materials	(column F x 5%)	$0	
5c	Total Retainage	(column I)		$0
6	Total Earned Less Retainage	(line 4 minus line 5c)		$0
7	Less Previous Approved Applications for Payment	(line 6 from previous Application)		$0
8	Current Payment Due	(line 6 minus line 7)		**$0**
9	Balance to Finish, Including Retainage	(line 3 minus line 6)	$0	

Change Order Summary	Additions	Deductions	
Total Changes Approved in Previous Months	$0	$0	
Total Changes Approved this Month	$0	$0	
Subtotals	$0	$0	
Net of Change Orders to Date			$0

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information, and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which the previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

Contractor
Type company name here
Type person's name, title here

signature date

In accordance with the Contract Documents, based on on-site observations and the data comprising this Application, the Consultant certifies to the Owner that to the best of the Consultant's knowledge, information, and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified. **Amount Certified:** _____

Consultant (Architect or Engineer)
Type firm name here
Type person's name, title here

signature date

Owner
Type contracting entity name here
Type person's name, title here

signature date

Owner's Rep / other - clear this text if not used
Type entity name here
Type person's name, title here

signature date

Bureau of General Services

Type person's name, title here

signature date

revised 05 April 2021

State of Maine
CONSTRUCTION CONTRACT
Construction Change Directive

Project name
location / school / campus

Contractor Company name
address
city state zip code

C. C. D. Number: **1**
CP (Change Proposal) Number 1
Issue Date of this Document: 31-Oct-2021

BGS Project No.: n
Other Project No.: x

CCD Item	Type name of CCD item here		
Description of Work	Type brief description here of work scope here.		
Reason or Necessity of Work	Type brief justification for change here.		
Method of Compensation	Select from drop down box…	**Projected Total Cost**	$0
Supporting Documentation	is attached	**Projected Calendar Days***	0

** Calendar Days refers to Contract Final Completion Date only.*
Fully describe the scope of work of the CCD item in the table above and on attached drawings and specifications as necessary.
Indicate the reason for the work, and the estimated schedule and cost impacts.
This CCD records the order to do the work. The documented actual final time and cost changes are subject to approval in a subsequent Change Order process.

Consultant (Architect or Engineer)
Type firm name here
Type person's name, title here
signature date

Contractor
Type company name here
Type person's name, title here
signature date

Owner
Type contracting entity name here
Type person's name, title here
signature date

Owner's Rep
Type entity name here
Type person's name, title here
signature date

Bureau of General Services
Division of Planning, Design & Construction
Type person's name, title here
signature date

revised 05 April 2021

AdvantageME CT# 0000

State of Maine
CONSTRUCTION CONTRACT
Change Order

Project name
location / school / campus

Change Order Number: **1**

Issue Date of this Document: 31-Dec-2022

Contractor Company name
address
city state zip code

BGS Project No.: n
Other Project No.: x

Cost Change *Show Deduct as a negative number, e.g.: "-$850".*

	Add	Deduct	Total
Net Amount of this Change Order	$0	$0	
Net Amount of Previous Change Orders	$0	$0	
Net of Change Orders to Date	$0	$0	$0
Original Contract Amount			$0
		Revised Contract Amount	**$0**

Time Change *Show Deduct as a negative number, e.g.: "-8".*

	Add	Deduct	Total
Net Calendar Days Adjusted by this Change Order	0	0	
Net Calendar Days Adjusted by Previous Change Orders	0	0	
Net of Change Orders to Date	0	0	0
Original Contract Final Completion Date			31-Dec-2023
		Revised Contract Final Completion Date*	**31-Dec-2023**

Consultant (Architect or Engineer)
Type firm name here
Type person's name, title here

signature date

Contractor
Type company name here
Type person's name, title here

signature date

Owner
Type contracting entity name here
Type person's name, title here

signature date

Type Entity, such as "Owner's Rep", or "not used"
Type entity name here
Type person's name, title here

signature date

Bureau of General Services
Division of Planning, Design & Construction
Type person's name, title here

signature date

Attach the "List of Change Order Items" sheet, plus all supporting documentation for each Change Order Item.

Substantial Completion Date: the deadline for first beneficial use by Owner, as certified by Consultant.	*1-Dec-2023*
**** Contract Final Completion Date** : the Contractor's final completion deadline for contract work.*	*31-Dec-2023*
Contract Expiration Date: the Owner's deadline for internal management of contract accounts; Contract Expiration Date does not directly relate to any contract obligation of the Contractor.	*29-Feb-2024*

List of Change Order Items

Project name
Contractor Company name

C. O. Number: **1**

CO Item No.	CP No.	Item Name	Reason Code	Calendar Days*	Cost
1	1	Type brief name of Change Order Item here		0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
				0	$0
			Totals	**0**	**$0**

Reason Codes

EO	*Error or omission of Consultant*
UC	*Unforeseen job site condition*
OC	*Owner-generated change*
RC	*Regulatory authority-generated change*
CC	*Contractor-generated change*

** Calendar Days shows Contract Final Completion Date impact only.*

Attach this sheet to the BGS "Change Order" cover sheet (with cost and time summaries, and signatures). Attach a "Details" sheet, and other supporting documentation, for each Change Order Item listed above.

revised 05 April 2021

State of Maine Change Order

Details of Change Order Item

Project name
location / school / campus

Contractor Company name
address
city state zip code

Change Order Item Number **1**
CP (Change Proposal) Number 1
Issue Date of this Document: 31-Oct-2021

BGS Project No.: n
Other Project No.: x

Change Order Item	Type name of Change Order Item here			
Description of Work	Type brief description here of work scope here.			
Reason or Necessity of Work	Type brief justification for change here.			
Cost Breakdown	Work by Subcontractor only	Work by Sub *and* Contractor	Work by Contractor only	
Subcontractor base cost	$0	$0		
Subcontractor markup	$0	$0		
Contractor base cost		$0	$0	
Contractor markup	$0	$0	$0	
Subtotal	$0	$0	$0	
Compensation	lump sum		**Total Cost**	**$0**
Initiated by	Consultant		**Calendar Days***	0
Reason Code	CC	**Supporting Documentation**		is attached

EO	*UC*	*OC*	*RC*	*CC*
Error or omission of Consultant	*Unforeseen job site condition*	*Owner-generated change*	*Regulatory authority-generated change*	*Contractor-generated change*

** Calendar Days shows Contract Final Completion Date impact only.*

Consultant
(Architect or Engineer)
Type firm name here
Type person's name, title here
signature date

Contractor
Type company name here
Type person's name, title here
signature date

Owner
Type contracting entity name here
Type person's name, title here
signature date

Owner's Rep
Type entity name here
Type person's name, title here
signature date

Bureau of
Division of Planning, Design & Construction

General Services Type person's name, title here

signature date

00 73 46
Wage Determination Schedule

PART 1- GENERAL

1.1 Related Documents
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specifications Sections, apply to this Section.

1.2 Summary
A. This Section includes the wage determination requirements for Contractors as issued by the State of Maine Department of Labor Bureau of Labor Standards or the United States Department of Labor.

1.3 Requirements
A. Conform to the wage determination schedule for this project which is shown on the following page.

PART 2 - PRODUCTS (not used)

PART 3 - EXECUTION (not used)

THIS DOCUMENT MUST BE CLEARLY POSTED AT ALL CONSTRUCTION SITES FUNDED IN PART WITH STATE FUNDS

Expiration Date: 12-31-2024 Revision Date: 1-3-2024

State of Maine Department of Labor - Bureau of Labor Standards
Augusta, Maine 04333-0045 - Telephone (207) 623-7906

Wage Determination - In accordance with 26 MRS §1301 et. seq., this is a determination by the Bureau of Labor Standards, of the fair minimum wage rate to be paid to laborers and workers employed on the below titled project.

2024 Fair Minimum Wage Rates -- Building 2 Washington County (other than 1 or 2 family homes)

Occupational Title	Minimum Wage	Minimum Benefit	Total
Brickmasons And Blockmasons	$27.38	$9.14	$36.52
Bulldozer Operator	$31.50	$7.53	$39.03
Carpenter	$27.42	$8.02	$35.44
Cement Masons And Concrete Finisher	$22.63	$3.67	$26.30
Commercial Divers	$30.00	$4.62	$34.62
Construction And Maintenance Painters	$17.38	$4.70	$22.08
Construction Laborer	$22.00	$2.31	$24.31
Crane And Tower Operators	$34.00	$10.12	$44.12
Crushing Grinding And Polishing Machine Operators	$23.00	$4.94	$27.94
Drywall And Ceiling Tile Installers	$26.20	$10.62	$36.82
Earth Drillers - Except Oil And Gas	$21.41	$5.51	$26.92
Electrical Power - Line Installer And Repairers	$38.93	$8.91	$47.84
Electricians	$37.58	$6.36	$43.94
Elevator Installers And Repairers	$68.38	$45.29	$113.67
Excavating And Loading Machine And Dragline Operators	$26.00	$7.01	$33.01
Excavator Operator	$29.50	$2.71	$32.21
Fence Erectors	$26.75	$4.05	$30.80
Flaggers	$20.00	$0.38	$20.38
Floor Layers - Except Carpet/Wood/Hard Tiles	$27.00	$6.21	$33.21
Glaziers	$37.00	$6.60	$43.60
Grader/Scraper Operator	$23.00	$1.99	$24.99
Hazardous Materials Removal Workers	$20.63	$1.25	$21.88
Heating And Air Conditioning And Refrigeration Mechanics And Installers	$30.08	$5.49	$35.57
Heavy And Tractor - Trailer Truck Drivers	$21.50	$0.95	$22.45
Highway Maintenance Workers	$20.00	$0.00	$20.00
Industrial Machinery Mechanics	$31.25	$1.01	$32.26
Industrial Truck And Tractor Operators	$29.25	$4.06	$33.31
Insulation Worker - Mechanical	$23.00	$3.59	$26.59
Ironworker - Ornamental	$30.83	$24.97	$55.80
Light Truck Or Delivery Services Drivers	$23.34	$1.67	$25.01
Millwrights	$33.75	$8.78	$42.53
Mobile Heavy Equipment Mechanics - Except Engines	$27.75	$4.89	$32.64
Operating Engineers And Other Equipment Operators	$24.00	$2.38	$26.38

00 73 46
Wage Determination Schedule

Paver Operator	$27.03	$6.49	$33.52
Pile-Driver Operators	$32.75	$1.95	$34.70
Pipelayers	$28.50	$4.89	$33.39
Plumbers Pipe Fitters And Steamfitters	$37.50	$21.71	$59.21
Pump Operators - Except Wellhead Pumpers	$31.49	$32.08	$63.57
Radio Cellular And Tower Equipment Installers	$26.00	$3.77	$29.77
Reclaimer Operator	$27.03	$7.68	$34.71
Reinforcing Iron And Rebar Workers	$30.83	$24.97	$55.80
Riggers	$29.25	$7.79	$37.04
Roofers	$23.00	$3.13	$26.13
Screed/Wheelman	$29.25	$4.94	$34.19
Sheet Metal Workers	$26.00	$6.39	$32.39
Structural Iron And Steel Workers	$30.00	$7.46	$37.46
Tapers	$25.00	$5.11	$30.11
Telecommunications Equipment Installers And Repairers - Except Line Installers	$30.00	$2.39	$32.39
Telecommunications Line Installers And Repairers	$23.00	$5.16	$28.16
Tile And Marble Setters	$27.75	$6.73	$34.48

End of Section 00 73 46