

ADDENDUM NO. 1 – March 20, 2025

RE: Russell Hall Building Envelope Upgrades

University of Southern Maine - Gorham

Gale JN 842520

FROM: Gale Associates, Inc.

5 Moulton Street, Suite 201

Portland, ME 04101

TO: ALL PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 10, 2025 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. This Addendum consists of sixty-nine (69) pages. The below listed Items have been generated based on comments or questions presented to Gale Associates, Inc. via written Request For Information in the order they were received.

Please note that all product substitution requests will not be reviewed during the bidding process. Alternative products and manufacturers to those specified will be considered during the submittal process, provided that they meet or exceed the performance-based specifications.

ITEM 1. Start Date

Question: When is the start date for this project?

<u>Clarification:</u> Construction Activity shall start on May 12, 2025

ITEM 2. <u>Insurance Requirements</u>

Question: Does the General Contractor need builders' risk and owners' protective insurance?

Reference: Contracting Requirements Sections 00-72-11.1 General Conditions and 00 73 16 Sample AIA

Document A101 – 2017 Exhibit A.

Clarification: Refer to Paragraph A.2.3.1 in A101 -2017 Exhibit A for the University's Property Insurance

coverage and the Contractor's and Subcontractor's responsibility under the University's

coverage.

ITEM 3. Hazardous Materials

Question: Are there any hazardous materials on this job or has testing been done?

Clarification: A building materials survey was performed. Refer to the enclosed Limited Hazardous

Building Materials Inventory as performed by Ransom Consulting, LLC of Portland, ME,

dated June 6, 2024. Fifty-two (52) pages enclosed.



ITEM 4. Building Permit

Question: Has the building permit been applied for?

<u>Reference:</u> Contracting Requirements Sections 00-72-3.7 General Conditions

<u>Clarification:</u> No, the Contractor shall be responsible to obtain and pay for all building permits.

ITEM 5. <u>Masonry Repointing</u>

Question: Elevation note #7: Repoint brick masonry 100% in the work locations. What is this in reference

to? There are There are notes for repairing mortar joints but is this saying to repoint the entire

wall?

Reference: A201 – Elevation Notes

Clarification: The brick masonry mortar joints are not to be 100% repointed. Brick mortar joints shall only

be selectively repointed on each elevation, as identified in the Repair Legend and as shown

on Drawings A201, A202, A203, A204 and A205.

ITEM 6. Masonry Ties

Question: Predrill spira-lok holes from the inside and patch pre-drilled holes on exterior wythe of brick?

The drawing looks like the penetration doesn't penetrate through the interior side of the wall and how do you line up the predrilled exterior brick holes with the holes on the interior wythes? Can these all be drilled through once the exterior wythe has been constructed?

Reference: Drawing A503 / Detail 13 - Typical Full Depth Masonry Wall Strengthening

Drawing A503 / Detail 14 – Typical Helical Tie Detail At Mass Masonry Corner

Clarification: The holes shall be predrilled from the exterior side and once the exterior wythe has been

constructed.

ITEM 7. <u>Cast Stone Replacement</u>

Question: Notes 5 - 5.3.1 talk about a few scenarios and what to do as the process is being done but

how are we to know what extent of work will need to be completed? It talks about clean and coating exposed steel but how much? If steel angles need to be replaced how do we know if

we have to replace?

Reference: Drawing A505 / Detail 6 – Typical Stone Replacement Notes

Clarification: Abrading, cleaning and coating of corroded steel encountered during the work shall be

performed as additional work by Unit Price. Refer to the enclosed revised bid form, 00 41

13 (Addendum No. 1), for add Unit Price work.

Modification: Replace bid form with Bid Form - 00 41 13 (Addendum No. 1). Three (3) Pages enclosed.



ITEM 8. Brick Masonry Rebuild

Question: Detail mentions typical brick and stone repointing on Detail 5 / A503, but this detail isn't

found. How do we carry a cost for repointing interior wythes and exposed interior mortar

joints?

Reference: Drawing A503 / Detail 12 – Typical Brick Masonry Rebuild

<u>Clarification:</u> 1. This note should reference Detail 1/A504, which are typical details on how the existing

mortar joints are to be cut, prepared and pointed.

2. Only the areas to be rebuilt, as shown on Drawing A205, will include repointing of the

existing inner wythe and interior mortar joints.

Modification: Change note from Detail 5/A503 to 1/A504

ITEM 9. Bid Amounts

Question: Elevation note #1 states we should base our bid amounts on actual field conditions? So we

are to bid based on quantities given and anything above or below those quantities will be

invoiced or credited based on the unit prices in our bid?

<u>Reference:</u> Drawing A201 – Elevation Notes

<u>Clarification</u>: Yes, the bid amounts are based on the quantities identified on the drawings. The Contract

will be adjusted by Change Order using the Unit Prices from the bid form for any additional

quantities or omitted quantities of work.

ITEM 10. Unit Prices

Question: Do the unit prices on the bid form match total quantities shown on the elevations?

Reference: Procurement Requirements Section 00-41-13-2 Bid Form

<u>Clarification:</u> No, the quantities shown in the Unit Price schedule on the bid form are for determining

additional or omitted quantities, which shall be adjusted by Change Order.

ITEM 11. Bid Forms

Question: Unit price on bid form #9 and #10 have the same description? Also #12, #13 and #14 have the

same description?

Reference: Procurement Requirements Section 00-41-13-2 Bid Form

Drawing A-505

Clarification: Refer to the enclosed Bid Form - 00 41 13 (Addendum No. 1). Three (3) Pages enclosed.

Modification: On Drawing A505 / Detail 4, Change the detail title to Angled Cast Stone Quoin Replacement

- Type 1



ITEM 12. Glass Replacement

Question: Unit prices #17 say 10 each of broken glass. How do we know the size of the glass being

replaced?

<u>Reference:</u> Procurement Requirements Section 00-41-13-2 Bid Form

Clarification: Glass sizes shall be based on twelve (12) inches x twenty (20) inches. The Contractor shall

field verify replacement for actual sizes.

ITEM 13. Temporary Facilities

Question: Are there any requirements for temporary facilities? I don't see anything in the specs such as

temp office? Temp Water? Temp Electrical?

<u>Clarification</u>: Refer to Specification Section 01 50 00 – Temporary Facilities (Addendum No. 1).

Modification: Add Specification Section 01 50 00 – Temporary Facilities (Addendum No. 1). Eight (8) pages

enclosed.

ITEM 14. Power

Question: Is power available to the general contractor at no cost?

<u>Clarification:</u> Yes, refer to the enclosed Specification Section 01 50 00 – Temporary Facilities (Addendum

No. 1).

ITEM 15. Parking Onsite

<u>Question:</u> Is parking available onsite with no fees to the general contractor?

Clarification: The Contractor and workers are permitted to park in the lots on campus, but the cost of

parking fees shall be borne by the Contractor and its workers. Visit the following website for more information parking and fees https://usm.maine.edu/parking-services/vendors-contractors/#purchase. For additional parking information refer to Specification Section 01

50 00 – Temporary Facilities (Addendum No. 1).

ITEM 16. <u>Testing/Inspections</u>

Question: Are testing/inspections all to be paid for by the owner?

Reference: Contracting Requirements Section 00-72-13.4 General Conditions, Testing and Inspections

<u>Clarification:</u> Refer to Contracting Requirements Section 00-72-13.4 for Testing and Inspections, as well as

in each Technical Specification for required tests and inspections.



ITEM 17. Alternate No. 6

Question: Is there any glazing repairs/replacement in the base bid or is anything to do with glazing work

part of alt 6?

Reference: Specification Section 01 23 00 – Alternates

Drawing A401 / Detail 5 - Typical Window Replacement Glass and Glazing - Alternate No. 6

<u>Clarification:</u> All glass replacement work shall be performed as Alternate No. 6.

ITEM 18. Alternates No. 1

Question: Alternate #1 on elevations 24/20 (label).

Reference: Specification Section 01 23 00 - Alternates

Drawing A201 – Elevation No.1 Partial South Elevation – Alternate No. 1

<u>Clarification:</u> The repair label identified as 24/20 on the elevation is not applicable

Modification: Remove Repair label 24/20 from Drawing A201 – Elevation No.1 Partial South Elevation –

Alternate No. 1.

ITEM 19. Roof Drain Work Access

Question: What is the access inside going to be for roof drain work? Is it in the theater area? Easy

access? Plaster ceilings?

Reference: Specification Section 22 30 00 – Plumbing

Drawing A502 / Detail 8

Clarification: For the two (2) drains located in the center of roof there is an suspended ceiling with removal

acoustical tiles below. The two (2) on either end of the roof are exposed from below.

ITEM 20. Glazing Designations

Question: The Crack Glazing has a designation of LF in regards to it? If the pane of glass is being replaced

does the LF not make sense? Are the numbers with each CG designation on the elevations

mean to refer to glazing panes?

<u>Reference:</u> Drawing A201, A202, A203 and A204 – Elevations

Clarification: The Repair label for Cracked Glass (CG) that designates the quantity Linear Feet (LF), shall be

changed to Each (EA) and shall indicate the quantities of panes of glass to be replaced.

Modification: Change Cracked Glass (CG) quantity designation to Each (EA).



ITEM 21. Cast Stone Coating

Question: Will we be stripping the existing coating off all the cast stone, or only areas that are being

repaired?

Reference: Specification Section 04 01 20 – Masonry Restoration and Cleaning

Specification Section 09 91 00 - Painting

<u>Clarification:</u> Only those cast stone elements designated to be repaired in-place shall be stripped of the

existing coating. New coating shall be applied following completion of the repair to the cast

stone element and to the nearest or replaced

ITEM 22. Cast Stone Painting

Question: Will we be painting all of the cast stone or just the areas that are being repaired?

<u>Reference:</u> Specification Section 04 01 20 – Masonry Restoration and Cleaning

Specification Section 09 91 00 - Painting

<u>Clarification:</u> New coating shall only be applied to cast stone elements that have been repaired or

replaced.

END OF ADDENDUM ONE

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SECTION 00 41 13 BID FORM – SHORT FORM

BI	DDER:			
<u>Ph</u>	ysical/Street Address			
Cit	zy, State ZIP			
	University of Maine System by c/o John M. Souther, Executive Director of Facilities 96 Falmouth St Portland, ME 04103		f Southern Maine	
Ha	ving carefully examined the form of contract, g	-	-	
aff	ecting the work, we the undersigned propose to	furnish all labor, equipm	ent and materials nec	essary for and reasonably
inc	cidental to the construction and completion of the	is contract for the sum of	-	
		Do	ollars (\$).
	LOWANCE PRICES (Section 01 21 00): Allo ditional to the Base Bid.	owance prices form a part	of the Base Bid and	shall not be considered
All	lowance NONE		\$	
ΑL	TERNATE PRICES (Section 01 23 00): as follows:	lows:		
Alt	ternate 1: Work as identified on Partial South E	levation – Detail 1/A201	\$	
Alt	ternate 2: Work as identified Partial South Eleva	ation – Detail 5/A202	\$	
Alt	ternate 3: Work as identified Partial East Elevat	ion – Detail 6/A203	\$	
Alt	ternate 4: Work as identified Partial North, East Details 7 and 8/A203 and Details 9 ar		\$	
Alt	ternate 5: Work as identified Partial West Eleva	tion – Detail 11/A204	\$	
Alternate 6: Historic Replicating Glass Replacement \$				
	NIT PRICE ITEMS: The undersigned agrees to the following prices:	perform additional work	as directed, or to allo	w for work to be omitted,
<u>Ite</u>	<u>m</u>	Quantity	Unit Price	<u>Total</u>
1.	Replace cracked, broken, spalled or missing face brick units.	50 Each	\$	\$
2.	Selectively repoint areas of deteriorated mortar joints.	50 Square Feet	\$	\$
3.	Selectively repoint deteriorated brick to cast stone mortar joints.	60 Linear Feet	\$	\$

4.	Repair stepped cracked brickwork.	10 Linear Feet	\$	<u> </u>
5.	Rebuild areas of brickwork.	50 Square Feet	\$	<u> </u>
6.	Repair cracked cast stone.	20 Linear Feet	\$	<u> </u>
7.	Repair shallow spalled cast stone.	15 Square Feet	\$	<u> </u>
8.	Repair deep spalled cast stone.	10 Square Feet	\$	
9.	Abrade, clean and coat corroded steel angle, size 3" x 3".	10 Linear Feet	\$	
10.	Abrade, clean and coated corroded steel reinforcement, size #4 bar.	20 Linear Feet	\$	\$
11.	Replace Cast Stone Quoins Type 1 (Up to 1'-8" Unit Length).	<u>5 Each</u>	\$	\$
12.	Replace Cast Stone Quoins Type 2 (Up to 1'-8" Unit Length).	5 Each	\$	
13.	Replace Cast Stone Quoins Type 3 (Up to 1'-8" Unit Length).	5 Each	\$	
14.	Replace Angled Cast Stone Quoins Type 1 (Up to 1'-8" Unit Length).	5 Each	\$	
15.	Replacement of deteriorated wood roof deck.	600 Square Feet	\$	
16.	Replacement of deteriorated wood roof blocking.	300 Linear Feet	\$	
17.	Replacement of broken glass Size 12" x 20".	<u>10 Each</u>	\$	
Thi	s proposal includes the cost of 100% Performa	ance Bond plus 100% Pay	ment Bond.	
The	e receipt of the following addenda to plans and	specifications is hereby a	acknowledged:	
ADDENDUM # DATED		ADDENDU	JM #	DATED
AD	DENDUM# DATED	ADDENDU	J M #	DATED
bid	y material or materials not specified in the bidder by a separate letter attached to this Bid. A terial specified and the reason for the suggested	cost comparison must be	included giving t	he comparison with the
insu day bef	e undersigned agrees, if this Bid is accepted to urance specified within twelve (12) calendar da falls on a Saturday, Sunday or holiday, then the transfer of the core 12 o'clock noon on the day following the brantee thereof, herewith submits a bid bond as	ays after the date of notifine conditions will be fulfinoliday, or the Monday for	cation of such accilled if the require	ceptance, except if the 12th d documents are received
	e undersigned agrees, if awarded the Contract,	_		
Rus	ssell Hall Building Envelope Upgrades 0	0 41 13 – 2 (Addendum	1)	Bid Form

other contractors.	t, that no more than 80% of the contract amount will be subjet to
Signed (by individual authorized to sign contract)	
By (printed name & title)	Phone
PO Box (if applicable)	Fax
NOTE: If bidder is a corporation, write State of Inco	orporation, and if a partnership, give full names of all partners.

END OF SECTION 00 41 13

TEMPORARY FACILITIES

SECTION 01 50 00

1.1 IN GENERAL

A. This Section contains instructions and requirements for the provision and utilization of temporary facilities to protect the Owner's property, the site and construction materials; and daily maintenance and cleanup of the site during the project.

1.2 STORAGE FACILITIES

- A. Storage of construction materials and equipment is not permitted in the building.
- B. The Contractor shall provide its own temporary storage facility for construction materials and equipment as may be needed during the work
- C. The Contractor shall be responsible for any and all security for all temporary storage facilities.
- D. The Contractor shall place storage containers in locations as designated in Contract Documents and coordinated with the University of Southern Maine.
- E. All costs associated with temporary storage facilities shall be borne by the Contractor.

1.3 <u>TEMPORARY OFFICE</u>

- A. The Contractor may utilize space within the building for a temporary office in an area as designated by the University of Southern Maine.
- B. The Contractor shall provide its own office supplies and equipment as may be needed.
- C. The Contractor shall maintain and keep clean the temporary office, as well as any areas leading to and from the office area from the building's exit and entry points.
- D. The Contractor shall clean and restore the temporary office, as well as any areas leading to and from the office area from the building's exit and entry points to its original condition following occupancy of the space and completion of construction.
- E. All costs associated with the temporary offices shall be borne by the Contractor.

1.4 CONTRACTOR'S USE OF EXISTING FACILITIES

- A. The building will be partially occupied and in use during construction by USM Staff. But there will be no students or classes held during construction. The Contractor shall provide all protection, guards and barriers necessary to segregate the work area and adjacent or below areas from pedestrian and vehicular traffic. Protect existing building, building finishes, landscaping and paved areas from damage.
- A. Limit use of the premises to the work indicated, so as to allow for the Owner's uninterrupted occupancy and use. Confine operations to the areas indicated under the Contract. Conformance to the regulations set forth by the Owner, regarding use of existing facilities is mandatory.
- B. Take precautions necessary and provide equipment, materials and labor to adequately protect previous construction, the building, its contents and occupants, and surrounding landscaped areas from damage due to construction as well as from inclement weather during construction.
- C. Clean interior and exterior areas affected by the construction on a daily basis. Do not allow construction debris, waste materials, tools, excess packaging materials or other construction related materials to accumulate on the roof, in the facility, or at the exterior grounds and pavements.
- D. Coordinate with the Owner for additional interior cleaning and protections required for the work.

1.5 SANITARY FACILITIES

A. The Contractor will furnish portable toilets. Temporary toilets shall be kept in a sanitary condition at all times and properly supplied at appropriate locations by the Owner until completion of the project. Use of the sanitary facilities within the building is not permitted.

1.6 BARRIERS

- A. The Contractor shall install temporary fencing, warning lines, barriers and the like, as required, to segregate the construction areas from existing facilities, occupants and the public.
- B. All Contractors are required to conform to OSHA requirements and all local, state and federal safety regulations.
- C. The Contractor shall provide guard lights on all barriers and all lighting necessary to prevent vandalism of work and storage areas. The Owner is not responsible for Contractor's losses due to damage or theft by vandals.

1.7 CRANES AND HOISTING EQUIPMENT

A. All hoisting equipment and machinery required for the proper and expeditious prosecution and progress of the work shall be furnished, installed, operated and maintained in a safe condition by the Contractor. All costs for hoisting operating services shall be borne by the Contractor including street permits and police details.

1.8 ACCESS

- A. Provide ladders, scaffolding, staging and hoists as required to access the project area(s) in accordance with OSHA and D.L.W.D. guidelines. Should damage to the building and/or grounds occur, restore damaged areas to the original condition and clean up debris.
- B. Where scaffolding and staging is required for the proper installation of the work it shall be erected to provide a minimal impact on the site.
- C. All barriers and warning lines shall be installed at the base of any scaffolding or staging and around ground areas below elevated staging.
- D. Provide walk through overhead protection where work areas are above doors, walkways, or sidewalks in accordance with OSHA.
- E. All scaffolding and staging shall be erected in conformance with all applicable state, federal and local codes. The Contractor shall follow all applicable local, state, and federal requirements regarding the construction of scaffolding and staging and the protection of public safety. Specific reference shall be made to the OSHA Construction Safety Regulations and all requirements of the State of Maine Department of Labor.

1.9 <u>SETUP AREAS AND USE OF THE SITE</u>

- A. The Owner shall determine the locations of the Contractor's designated setup areas. The Contractor may not utilize any other locations unless permission is obtained from the Owner.
- B. The Contractor shall permit the Owner and Engineer access to the staging, work areas and test areas at any time, as required to perform inspections and review mockups. The Contractor shall not move or remove staging or access to the work areas until instructed by the Owner and Engineer to do so. Any staging or access to the work areas removed by the Contractor without approval of Owner and Engineer, shall be reinstalled and setup at the request of the Owner and/or Engineer at no additional cost to the Owner.
- C. Other specific requirements of the Owner will be addressed and outlined at the Pre-Construction meeting to be held prior to the start of work.

D. Take precautions necessary and provide equipment, materials and labor to adequately protect previous construction, the building, its contents and occupants, and surrounding landscaped areas from damage due to construction as well as from inclement weather during construction.

1.10 UTILITIES

- A. The Owner, through exterior electrical outlets, if operable, will provide electrical service to the Contractor free of charge. Use shall be limited to construction hours. The Contractor and/or subcontractors shall provide their own electrical generator for welding equipment, HEPA vacuum, and grinding equipment. The Owner reserves the right to charge the Contractor(s) for excessive electrical service usage (i.e., wasteful usage). Should charges be considered, the Owner will notify the Contractor in writing of his intent forty-eight (48) hours in advance.
- B. Owner will provide water for construction purposes free of charge through exterior water spigots, if operable. The Owner reserves the right to charge the Contractor for excessive or wasteful use. Should charges be considered, the Owner will notify the Contractor in writing of his intent forty-eight (48) hours in advance. The Contractor shall provide drinking water.
- C. Contractor shall provide all other utilities required by the work.
- D. Electrical work, including reinstallation of equipment and other work to be performed by the Contractor, shall be carried out without interference to the building's normal operation. Where work requires interruption of service, the Contractor shall make advance arrangements with the Owner for dealing with such interruption.
- Ensure proper and safe operation and maintenance of utility systems within the construction limits, whether these are supplied by the Owner's distribution system or otherwise, until the Owner accepts the work. Maintain and operate appurtenances within the construction area that serve the distribution system, subject to periodic inspection by the Owner's operating personnel. Inspection by any representative or personnel of the Owner shall not relieve the Contractor of his responsibilities in connection with operation and maintenance of these facilities and equipment.

1.11 TEMPORARY PROTECTION

A. Provide suitable Owner-approved temporary protection to prevent the entrance of debris, obstructions, and water infiltration into the building. Provide warning signs to reroute personnel around areas of dangerous work. Place warning barriers at roof perimeters and at deck openings. Clearly label temporary covers over deck openings. Do not permit openings to remain unprotected overnight. Schedule operations to allow for completion of new roofing over a predetermined area of roof within a day's work. Use special care to avoid damaging existing roofing and flashing when working on the roof of the building.

- B. Provide temporary tie-ins between existing and new roof systems as specified and detailed. Tie-in construction shall completely prevent interior leaks, migration of moisture from existing to new construction and damage of any type to the facilities. Provide necessary quality control at tie-ins on a daily basis to prevent leaks.
- C. Avoid traffic on completed roof areas. Coordinate work to prevent this situation. Should temporary access be required, provide temporary substrate protection for trafficked areas.
- D. Protect materials scheduled for reuse from damage by placing them in labeled containers or wrappings stored in a weathertight trailer.
- E. Provide temporary protection such as plywood and tarps for streets, drives, curbs, sidewalks, landscaping and existing exterior improvements during all phases of the project.

1.12 <u>DEBRIS REMOVAL</u>

- A. The Owner shall designate crane and refuse container locations. This area shall be sectioned off with proper warning lines.
- B. Removed materials shall not be thrown freely from the roof but shall be discarded in an enclosed chute, in order to reduce the spread of dust and other debris.
- C. Supply adequate covered receptacles for waste, debris and rubbish. One receptacle will be allowed on site at a time, and must be immediately removed from the site when full. Clean the project area daily and prior to moving the receptacle to another location on the site. Locations shall be as permitted by the Owner. Disposal shall be off-site in a legal dump authorized to accept construction demolition solid wastes. The Contractor shall be responsible for receptacle-related damage to site grounds.
- D. Receptacles shall be removed from the site daily. Should, for any reason, receptacle removal is not possible on any given day, the Contractor shall move the receptacle a minimum of fifty (50) feet from the building or as required by local fire officials.

1.13 NOTIFICATION

A. Notify the Owner at least seventy-two (72) hours in advance of the desire to extend, connect, disconnect, or turn on or off HVAC, steam, electric, water or other service from the Owner's supply systems. Authorized representatives of the Owner shall witness the actual operation. Plumbing, heating and electrical work, including installation of equipment and any other work to be performed by the Contractor, shall be carried out without interference with the Owner's normal operation. Where work requires interruption of a service, make advance arrangements with the Owner for dealing with such interruption. All disconnections, extensions and reconnections of HVAC, steam, electric, water or other service shall be performed by a licensed and certified technician capable of completing the work.

1.14 ACCESS TO THE WORK

A. The Contractor is responsible for providing access to all roof areas included within the project's scope of work. Contractor is required to maintain, clean and keep clear all exterior pathways utilized to access roof. Contractor shall be prohibited from entering office space, laboratory space, etc. without written authorization from the Owner. Tools, materials or equipment will not be permitted within the building unless it is specifically required to complete the work. Failure to comply with Owner's requirements will result in the Contractor providing their own access to the roof at no additional cost to the Owner. A Contractor's staging and/ or laydown area will be designated by the Owner adjacent to the building.

1.15 ACCESS TO THE INTERIOR

- A. The Contractor must secure and coordinate access with the Owner prior to entering building or performing work at the building interior. All access to the roof shall be provided by the Contractor from the exterior of the facility. All roof access locations/methods shall be located at an Owner approved location for this purpose, and shall be made secure at the end of each work day to prevent un-authorized access onto the unit. As an alternative, an extension ladder erected and removed daily will be permitted.
- B. The Owner will designate which portions of the site the Contractor may utilize and access for the performances of the work. The Contractor must submit a site plan indicating his locations of set up, material storage, and parking. Parking at other locations throughout the lot, without prior authorization, is subject to vehicle removal at no cost to the Owner.
- C. All hoisting of equipment and materials must be done on the exterior of the building. No tools will be permitted inside the building unless they are specific to perform the required work.
- D. The Contractors will be required to provide a clean change of clothes, and shall be responsible for any damages or stained interior components should access to the interior be required.
- E. The Contractor will be required to provide access to the designer and manufacturer's representatives at no additional cost, to review the work operations, and to perform final observations.

1.16 CONTRACTOR AND WORKER PARKING DURING CONSTRUCTION

A. The Contractor and its Workers are permitted to park on Campus. Cost of all parking shall be borne by the Contractor and/or its Workers. Parking permits and daily parking information is as follows:

- A Vendor/Contractor permit type is available for purchase online at this link: https://customerportal.parkengage.com/usm. Further video instructions for purchasing a permit here: How to Purchase a Permit. https://www.youtube.com/watch?v=ZwEFiyJCKDw.
- 2. The Vendor/Contractor permit is a monthly permit type that costs \$20 per month (plus transaction fee) and goes by calendar month. If purchased after the 1st of a month the total price will be automatically prorated at the end of the transaction. You can register up to five (5) vehicles under one permit so long as only one vehicle is parked on campus at a time. You can also edit and add vehicles to your permit at any time after purchase.
- 3. All permits also have the option of auto-renew. This will be a check box at the end of your transaction. If you enroll in auto-renew your permit will automatically renew itself on the first of the month and your permit will remain active. This does mean your card will automatically be charged on the first of the month as well. Auto-renew is completely managed by the permit holder who can turn it on or off at any time.
- 4. For those only visiting campus for a day or two who don't need a permit there are two options for paying a daily parking session. First, you can pay for your parking same day when you visit campus. The rate on the Portland campus is \$4.15/hour and caps at \$16 per day, and the Gorham campus is \$1.05/hour and caps at \$6 per day. Each of our parking lots has QR codes you can scan with a smartphone and pay for parking that way. Similarly, you can reserve parking online in advance this link: https://customerportal.parkengage.com/usm/book-reservation. (PLEASE NOTE: although your same day paid parking or online reservation is tied to a specific parking lot, the parking session gives you in and out privileges for ALL parking lots on the selected campus during your reservation time frame. Parking sessions in Gorham are NOT applicable in Portland and vice versa).

1.17 TRAFFIC CONTROL

A. The Contractor shall arrange and pay for all police details required to control traffic affected by any part of the work, if required.

1.18 CLEANUP

- A. Site cleanup shall be complete and to the satisfaction of the Owner. Site cleanup shall be performed daily.
- B. All building (interior and exterior), landscape and parking areas shall be cleaned of all trash, debris, and dirt caused by or associated with the work.

- C. All landscape areas damaged or littered due to the work shall be raked clean and reseeded if required.
- D. All paved areas shall be swept clean of debris daily. All paved areas shall be washed clean at the completion of work.
- E. All areas stained, dirtied, discolored or otherwise damaged due to the work shall be cleaned, restored or replaced as required.

PART 2 - PRODUCTS

NOT USED.

PART 3 - EXECUTION

NOT USED.

END OF SECTION

I:\842520\02 Design\specs\842520 01 50 00 Temporary Facilities (Addendum 1).docx





June 6, 2024 Project 211.06085.013

Mr. Arno L. Skalski, LEED AP Gale Associates, Inc. 5 Moulton Street, Suite 201 Portland, ME

Re: Limited Hazardous Building Materials Inventory

Russell Hall – Exterior Façade and Roof Evaluation

University of Southern Maine

24 University Way Gorham, Maine

Dear Mr. Skalski:

Ransom Consulting, LLC (Ransom) has prepared this report presenting the results of the Limited Hazardous Building Materials Inventory (HBMI) performed at the property identified as Russell Hall (the Site building), located at 24 University Way, Gorham, Maine, on the University of Southern Maine (USM) campus (the Site). The Site location is shown on Figure 1. This Limited HBMI was focused exclusively on asbestos-containing materials (ACM) and lead based paint (LBP) associated with exterior windows, doors, entrances, and exterior building finishes, as well as roofing materials of the Site building. The work was completed for Gale Associates, Inc. (Gale), in accordance with our Proposed Scope of Work, dated October 18, 2023.

FACILITY DESCRIPTION

The Site, located at 24 University Way in Gorham, Maine, is part of the USM Campus, and is currently improved with a two-story masonry structure operated as Russell Hall which includes a stage, small auditorium, box office, workshop for set design, and office space. Background information provided by Gale indicates that the Site building was constructed circa 1931. The Site building occupies a ground footprint of approximately 10,000 square feet and is constructed on a masonry foundation. This assessment was limited to the building's exterior façade and roofing system.

Generalized plans for the exterior façade and roof areas inspected, including the locations of samples collected for asbestos and lead analysis, are provided on Figures 2 and 3.

LIMITATIONS

This Limited HBMI is subject to certain limitations, which must be considered when interpreting the results. The information presented in this report is based upon work undertaken by trained professional and technical staff in accordance with generally accepted engineering and scientific practices current at the time the work was performed. Conclusions represent the professional judgment of Ransom based on

the data obtained from the work and the site conditions encountered at the time the work was performed and are not to be construed as legal advice.

In addition to these general stipulations, additional site-specific limitations are as follows:

- 1. The scope of this Limited HBMI was limited exclusively to the roofing system and exterior façade of the Site building. The HBMI was performed in conjunction with a building envelope study being conducted by Gale. Kevin W. Smith & Son, Inc., a commercial roofing contractor, was responsible for roof cuts and repairs.
- 2. Our work was conducted utilizing limited destructive assessment and sampling techniques. Additional suspect materials may be present in concealed or inaccessible spaces which may be disturbed as part of the future renovations.
- 3. Our work was conducted on behalf of Gale and is representative of conditions observed at the time of this inspection. No reliance shall be made by other users, for additional purposes, or for future demolition/renovation projects at the Site.

HISTORICAL DOCUMENTATION

Ransom was not provided copies of previous asbestos report(s) or other information regarding previous inspections and/or abatement of hazardous materials at the Site building.

ASBESTOS-CONTAINING MATERIALS

Ransom assessed the Site building roof and exterior façade for the presence of ACM on April 30, 2024. The scope of the limited ACM assessment included the identification, quantification, and sampling of accessible suspect building materials on the building roof and exterior façade which may be impacted by the proposed renovations. The work was conducted by Wesley Harden and River Fenton of Ransom, both of whom are certified by the State of Maine Asbestos Abatement Program and accredited by the United States Environmental Protection Agency (U.S. EPA) as asbestos inspectors. Copies of Mr. Harden's and Mr. Fenton's most recent training certificates and state asbestos inspector certifications are provided in Attachment A.

In the State of Maine, the Occupational Safety and Health Administration (OSHA), the U.S. EPA, and the Maine Department of Environmental Protection (MEDEP) are responsible for regulating the release of asbestos into the environment and protecting workers from exposure to airborne asbestos fibers. OSHA defines ACM as "any material containing more than one percent asbestos." MEDEP defines ACM as "any material containing asbestos in quantities greater than or equal to one percent by volume as determined by weight, visual evaluation, and/or point count analysis." Bulk samples of friable and miscellaneous materials (e.g., drywall, joint compound, pressed fiber ceiling tile) were analyzed using the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116 (1993) via



Project 211.06085.013

polarized light microscopy (PLM) visual estimation. Non-friable organically bound (NOB) materials (e.g., floor tiles, roofing materials, mastics) were analyzed using PLM NOB–EPA 600/R-93/116 using the gravimetric reduction method (GRM).

Samples were analyzed by Optimum Analytical and Consulting, LLC (Optimum) of Salem, New Hampshire. Optimum is a Maine-licensed asbestos analytical laboratory and is also certified to perform bulk sample analysis by the National Voluntary Laboratory Accreditation Program (NVLAP). Copies of Optimum's relevant certifications are provided in Attachment A.

Laboratory analysis of bulk samples did not identify ACM in the roofing materials or components of the exterior façade associated with Russell Hall.

The MEDEP requires consultants to advise the building owner or owner's agent whenever the asbestos analytical laboratory has reported suspect ACM below ten percent asbestos. The owner or owner's agent may either elect to treat these materials as positive for asbestos or have the samples re-analyzed using an alternate method as listed below:

- 1. PLM EPA/600R-93/116 Point Count (friable ACM); or
- 2. Transmission Electron Microscopy (TEM):
 - a. U.S. EPA NOB EPA/600/R-93/116b §2.5; or
 - b. TEM Chatfield Method.

Re-analysis of samples testing negative for asbestos is not required.

As no asbestos was detected in the samples submitted to the laboratory, re-analysis is not recommended at this time.

A listing of samples collected, analytical results, and estimated quantities of confirmed ACM, if present, can be found in Table 1. A copy of the laboratory analytical report can be found in Attachment B.

LEAD-BASED PAINT

An inspection for the presence of LBP was conducted via the collection of paint chip samples for lead analysis. Samples were analyzed for lead content via EPA SW-846 3rd Ed. Method 3050B/ Method 6010D for Inductively Coupled Plasma-Optical Emission Spectrometry by Alpha Analytical of Westborough, Massachusetts (Alpha). Alpha is an environmental lead laboratory accredited by the American Industrial Hygiene Association (AIHA).

Please note that the LBP sampling conducted during this HBMI does not constitute a U.S. EPA/United States Department of Housing and Urban Development (HUD)-compliant lead survey.



Ransom collected a total of 3 paint chip samples for lead content from various building components and surfaces at the Site. Each of the paint chip samples contained lead but at concentrations that were below the HUD standard of 0.5% by weight. Sample results are provided in Table 2. Laboratory analytical reports for paint chip samples are included as Attachment B.

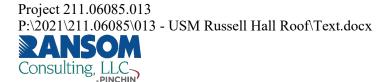
HUD has established a standard for characterizing LBP as any paint containing 1.0 milligram per square centimeter (mg/cm²) lead as tested using an x-ray fluorescence (XRF) analyzer, or 0.5 percent lead by weight for paint chips. These materials are considered to be "lead-based paint" according to Section 1017 of the *Residential Lead-Based Paint Hazard Reduction Act of 1992* (also referred to as Title X). HUD LBP guidelines only apply to housing funded by the federal government. While they are not regulatory considerations in commercial applications, these guidelines are a useful reference for assessing hazards associated with lead in paint in non-residential settings. When paint contains lead in concentrations greater than 1.0 mg/cm² or 0.5 percent by weight, special care should be taken when conducting activities that impact this paint. When surfaces covered in paint containing lead *at any concentration* are impacted by abrasive blasting, torch burning, or similar activities that generate significant dust or fumes, hazardous airborne concentrations can be generated even if the lead content is below the HUD standard.

Handling of components coated with lead-containing paint at any concentration requires compliance with the OSHA lead standard (*Lead in Construction*, 29 CFR 1926.62). Under the existing conditions, facility maintenance staff or contractors may perform demolition, renovation, abatement, stabilization, cleanup, and daily operations in buildings that have lead-based paint or lead-containing paint, provided that the requirements in the OSHA lead standard are met.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this Limited HBMI, Ransom makes the following conclusions and recommendations.

- ACM were not identified in the samples collected in association with the roof or components of the exterior façade at Russell Hall located on the USM campus. Special handling/disposal of roofing materials as ACM during renovation activities is not required.
- 2. Painted surfaces inspected did not exhibit lead concentrations high enough to delineate the materials as "lead-based" according to HUD guidelines. These guidelines apply to federal housing projects and are referenced for comparison purposes only. Under the existing conditions, general and/or demolition contractors may perform demolition of painted surfaces provided that the handling of components coated with paint containing lead *at any concentration* (referred to as lead-containing paint) complies with OSHA's lead standard.



Ransom appreciates the opportunity to assist Gale with this project. Please contact us if you have questions regarding the information provided in this report.

Sincerely,

RANSOM CONSULTING, LLC

Wesley E. Harden, L.G.

Hazardous Materials Specialist

Eriksen P. Phenix, L.G. Senior Project Manager

Eik Pheny

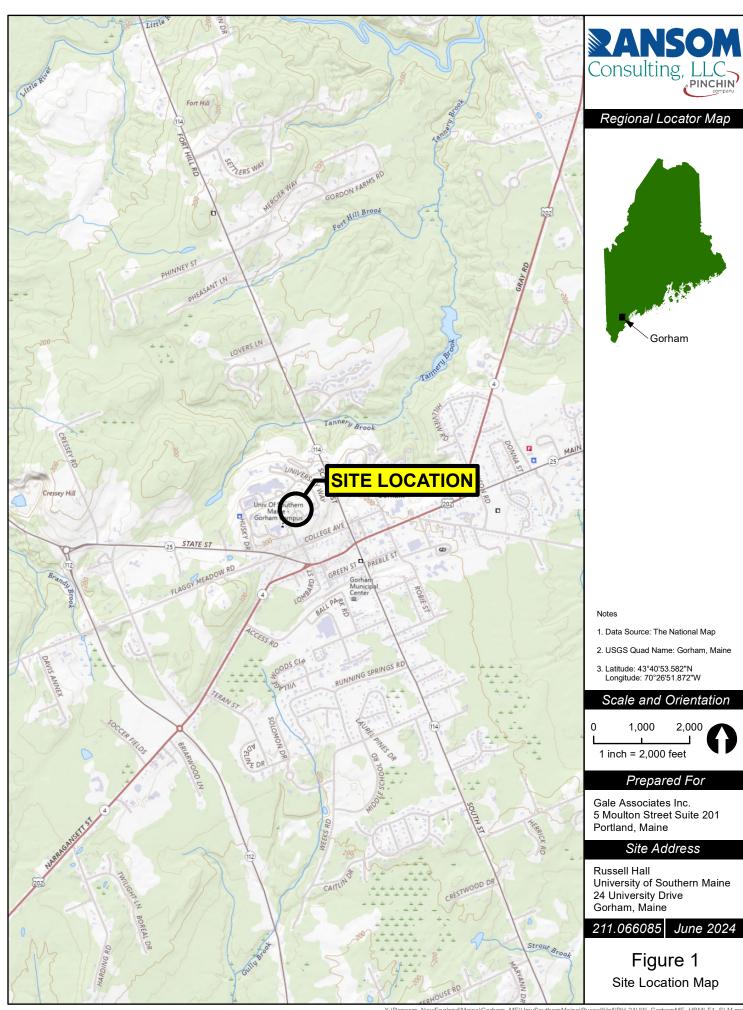
Brian R. Pettingill, P.G.

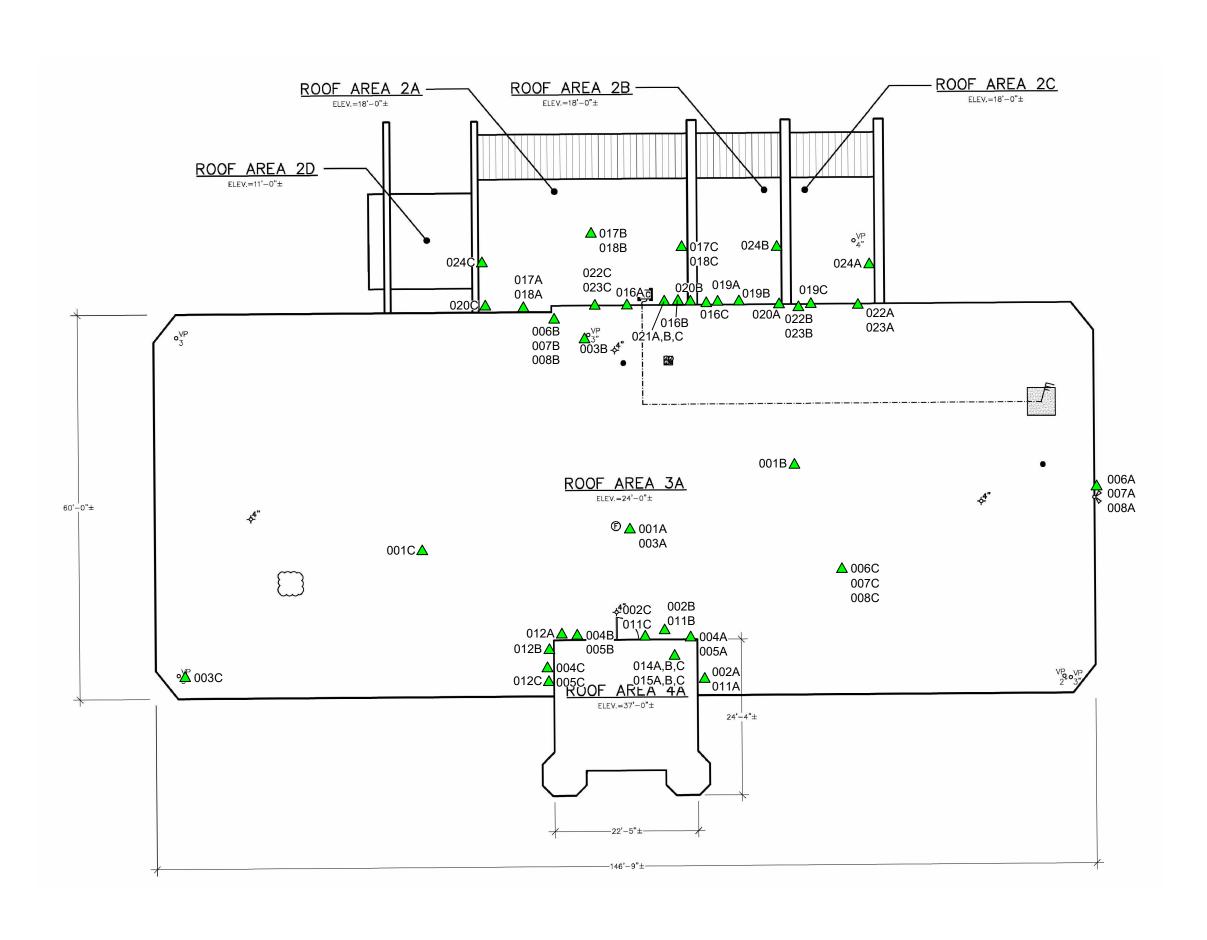
Vice President

WEH/EPP/BRP:ags

Consulting, LLC

Attachments







Legend & Notes

Sample Testing Negative for Asbestos

Notes:

- Site Plan based on measurements and observations made by Ransom Consulting, LLC.
- Some features are approximate in location and scale.
- This plan has been prepared for Gale. All other uses are not authorized unless written permission is obtained from Ransom Consulting, LLC.

Scale and Orientation

0 7.5 1 inch = 15 feet



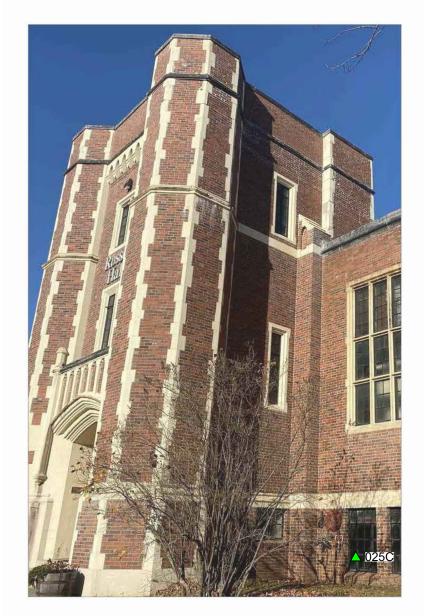
Gale Associates Inc. 5 Moulton Street Suite 201 Portland, Maine

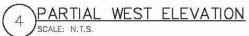
Site Address

Russell Hall University of Southern Maine 24 University Drive Gorham, Maine

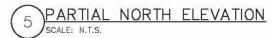
211.06085 June 2024

Figure 2 Roof Plan











Legend & Notes



Sample Testing Negative for Asbestos

Notes:

- Site Plan based on measurements and observations made by Ransom Consulting, LLC.
- Some features are approximate in location and scale.
- This plan has been prepared for Gale. All other uses are not authorized unless written permission is obtained from Ransom Consulting, LLC.

Scale and Orientation

Not to Scale

Prepared For

Gale Associates Inc. 5 Moulton Street Suite 201 Portland, Maine

Site Address

Russell Hall University of Southern Maine 24 University Drive Gorham, Maine

211.06085 June 2024

Figure 3

Elevation

TABLE 1: SUMMARY OF ASBESTOS TESTING RESULTS

Limited Hazardous Building Materials Inventory Russell Hall - Exterior Façade and Roof Evaluation University of Southern Maine 24 University Way Gorham, Maine

Material	Location	Sample Number	Asbestos Quantity and Type ^[2,3]
Roof sealant, beige/gray	Roof Areas 3A and 4A, roof patches	001A through 001C	NAD
Caulk, beige	Roof Area 3A, roof/brick interface on tower	002A through 002C	NAD
Roof sealant, black	Roof areas 3A and 4A, roof seams and patches	003A through 003C	NAD
Brick	Tower	004A through 004C	NAD
Mortar	Tower	005A through 005C	NAD
Top fiberboard	Roof areas 3A and 4A	006A through 006C	NAD
Second layer fiberboard	Roof areas 3A and 4A	007A through 007C	NAD
Paper on foam insulation	Roof areas 3A and 4A	008A through 008C	NAD
	NO SAMPLE SETS 009 OR 010		
Caulk, white	Tower perimeter	011A through 011C	NAD
Caulk, gray	Tower - in between bricks	012A through 012C	NAD
Underlayment paper, brown	Roof Area 4A, second roof under main roof	013A through 013C	NAD
Underlayment paper, black	Roof Area 4A, second roof under main roof	014A through 014C	NAD
Insulation, yellow	Roof Area 4A, second roof under main roof	015A through 015C	NAD
Sealant, black	Brick wall - roof areas 2A, 2B, and 2C	016A through 016C	NAD
Top fiberboard and underlayment	Roof Areas 2A, 2B, and 2C	017A through 017C	NAD
Bottom fiberboard and underlayment	Roof Areas 2A, 2B, and 2C	018A through 018C	NAD
Caulk, gray	Flashing - Roof areas 2A, 2B, and 2C	019A through 019C	NAD
Caulk on parapit wall, beige	Roof Areas 2A, 2B, and 2C	020A through 020C	NAD
Sealant, black	Roof seams and patches - Roof areas 2A, 2B, and 2C	021A through 021C	NAD
Brick	Main building	022A through 022C	NAD
Mortar	Main building	023A through 023C	NAD
Cement panel	Roof Areas 2A, 2B, and 2C	024A through 024C	NAD
Window glazing	Windows	025A through 025C	NAD

NOTES:

- 1. Samples were collected on April 30, 2024 by Ransom Consulting, LLC, and were analyzed by Optimum Analytical and Consulting, LLC of Salem, NH.
- 2. NA/PS = not analyzed/positive stop. Sample sets are analyzed until asbestos is identified in an amount greater than one percent.
- 3. NAD = No asbestos detected; ACM = Asbestos Containing Material; *PACM = Presumed Asbestos Containing Material*.
- 4. Sample locations are shown on Figures 2 and 3.



TABLE 2: LEAD-BASED PAINT TESTING RESULTS

Limited Hazardous Building Materials Inventory Russell Hall - Exterior Façade and Roof Evaluation University of Southern Maine 24 University Way Gorham, Maine

Sample ID	Color/Substrate/Component	Location	Lead Concentration (mg/kg)	Lead Concentration (% by weight)
LBP-01	green/metal/window frame	Interior	104	0.0104
LBP-02	black/metal/window frame	Exterior	605	0.0605
LBP-03	white/drywall/wall	Interior	863	0.0863

^{1.} Samples were collected on April 30, 2024 by Ransom and were submitted to Alpha Analytical for analysis.



^{2.} Values in boldface type indicate lead concentrations in excess of the HUD threshold value of 0.5 % by weight.

^{3.} HUD guidance is not a regulatory consideration in this scenario, and is provided for reference only.

ATTACHMENT A

Certifications

Limited Hazardous Building Materials Inventory Russell Hall: Exterior Façade and Roof Evaluation University of Southern Maine 24 University Way Gorham, Maine



Certificate of Completion

Asbestos Inspector Certification Training

This certifies that

River B. Fenton

Has Met the Attendance Requirements, Successful Completion of the Exam, and the 32-Hour Curriculum Course Entitled Asbestos Inspector Certification Course, Accreditation Under TSCA Title II 40 CFR Part 763 & Maine Chapter 425.



Instructor: Bruce M. Hackett, Sr. 288 Narragansett Trail Buxton, Maine (207)615-3694 License # **TP-0032**



Class Date(s): 03/04 - 03/06/24

Test Date: 03/06/24

Certification #: ASI24-02212000

Expiration Date: 03/06/25

Test Score: 88%

State of Maine Asbestos Abatement Program

River B. Fenton



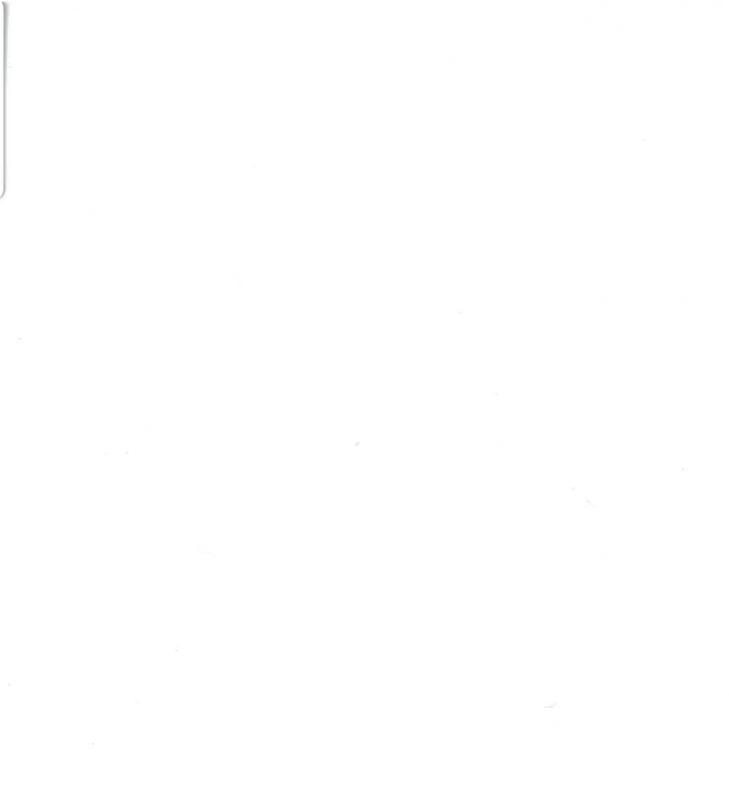
Cert No. AI-0959 Trn.Exp.Date 03/06/2025

Expiration Date 03/31/2025

This is not a legal form of official identification







STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION



January 26, 2024

Ransom Consulting 400 Commercial Street, Suite 404 Portland, Maine 04101

State of Maine Asbestos Abatement Program

Wesley E. Harden

Inspector

Cert No. AI-0874 Trn.Exp.Date 01/22/2025

Expiration Date 01/31/2025
This is not a legal form of official identification





Dear Licensee:

Asbestos application(s) for individual certification of the **one** employee(s) listed below have been received and **approved**. Individual certification numbers are listed below and wallet card(s) are enclosed. Card(s) are property of the individual to whom each is issued. Your responsibility as a licensee is to ensure delivery of the cards to persons in your employment. This letter should be retained for your company files as record of certification. Please attach 1 updated passport size photo with every application.

Remember, in Maine all certified employees working on an asbestos abatement project, whether conducting removal/repair, air monitoring, design, inspection, or analysis functions, must work for a State of Maine licensed asbestos firm and carry his/her wallet card(s) on the job site.

As a reminder, prior to renewing your asbestos certification, the State of Maine **requires** an annual refresher course to be taken before submitting a renewal application. A certificate shall expire one year from the last day of the month from the date of issuance, **or on the last day of the month that the training certificate expires**, whichever is sooner.

All our asbestos forms can be found at https://www.maine.gov/dep/waste/asbestos/forms.html Thank you for your cooperation and your completed application(s).

Name

Category

Certification #

Exp. Date

Wesley E. Harden

Inspector

AI-0874

01/31/2025

Sincerely,

Sandra J. Moody, Environmental Specialist

-d-of Moody

Division of Remediation

Bureau of Remediation and Waste Management



This is to certify that

Wesley E. Harden

494 Riverside Drive #1, Auburn, ME 04210



has completed requisite training by Video Conference, and has passed an examination for reaccreditation as:

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location

Zoom Video Conference
Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

January 22, 2024

Course Dates

24-5218-106-403241

Certificate Number

January 22, 2024

Examination Date

January 22, 2025

Expiration Date

Thom Ell

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Optimum Analytical & Consulting LLC

85 Stiles Road Suite 201 Salem, NH 03079 Ms. Jamie L. Noel Phone: 603-458-5247

Email: jamie.noel@optimumanalytical.com http://www.optimumanalytical.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101433-0

Bulk Asbestos Analysis

18/A03

<u>Code</u>	<u>Description</u>
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION





March 14, 2024

Attn.: Jamie Noel, Laboratory Director

Optimum Analytical and Consulting, LLC

85 Stiles Road, Suite 201

Salem, NH 03079

Dear Ms. Noel:

This letter is about your renewal application for licensure as an Asbestos Analytical Laboratory (Bulk).

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

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

Your renewal license number remains at LB-0067 which is in effect for one year and will expire on March 31, 2025. A renewal application should be filed not less than thirty (30) days prior to expiration of this licensure. Thank you for your continued service to the people of the State of Maine.

If you have any questions, please call me at (207) 242-0877.

Sincerely,

Sandra J. Moody, Environmental Specialist

Division of Remediation

Sand of Moody

Bureau of Remediation and Waste Management

Enclosure





State of Maine Department of Environmental Protection

LICENSE

Optimum Analytical and Consulting, LLC

Asbestos Analytical Laboratory
(Air)

License Number: <u>LA-0065</u> Expiration Date: <u>03/31/2025</u>





State of Maine Department of Environmental Protection

LICENSE

Optimum Analytical and Consulting, LLC

Asbestos Analytical Laboratory
(Bulk)

License Number: <u>LB-0067</u> Expiration Date: <u>03/31/2025</u>

ATTACHMENT B

Laboratory Reports

Limited Hazardous Building Materials Inventory Russell Hall: Exterior Façade and Roof Evaluation University of Southern Maine 24 University Way Gorham, Maine





85 Stiles Road, Suite 201 Salem, NH 03079 603-458-5247

Erik Phenix

Ransom Environmental Consultants, Inc.

Laboratory Batch #: 2450993

400 Commercial Street

Date Samples Received: 05/03/2024

Portland, ME 04101

Date Samples Analyzed: 05/10/2024

Date of Final Report: 05/13/2024

SAMPLE IDENTIFICATION:

Sixty Nine (69) samples from USM (Russell Hall) Roof Asbestos Assessment; Gorham, ME project were submitted by Client on 05/03/2024

This bulk sample(s) was delivered to Optimum Analytical Consulting, LLC (Optimum) located in Salem, New Hampshire for asbestos content determination.

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter ($<0.25\mu m$) may not be detected by the PLM method. Floor tile and other resinous bound materials may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additionally, there is currently no approved EPA analytical method to reliably confirm vermiculite as non-asbestos containing. Additional analytical methods may be required. Optimum Analytical recommends using Transmission Electron Microscopy (TEM) or other approved methods for a more definitive analysis.

Optimum will retain all samples for a minimum of three months. Further analysis or return of samples must be requested within this three month period to guarantee their availability. This report may not be reproduced except in full, without the written approval of Optimum Analytical and Consulting, LLC.

The client/laboratory shall not use the NVLAP and AIHA Logo or this test report in a way that constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Point Count = .25%, 1000 Point Count = 0.1%; Present or Absent are observations made during a qualitative analysis.

This report is considered preliminary until signed by both the Laboratory Analyst and Laboratory Director or Supervisor. If you have any questions regarding this report, please do not hesitate to contact us.

Jamie L. Noel Laboratory Director

NVLAP Lab Code: 101433-0



85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

> ORDER #: 2450993 211.06085 PROJECT #:

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 **ANALYSIS DATE:** 05/10/2024

REPORT DATE: 05/13/2024 ANALYST: Jamie Noel

400 Commercial Street

CONTACT: Erik Phenix **DESCRIPTION:** PLM Analysis

CITY / STATE / ZIP: Portland, ME 04101

CLIENT:

ADDRESS:

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

Ransom Environmental Consultants, Inc.

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-001	Roof 3A				<u> </u>	
001A	Sealant, Black/White	LAYER 1	None Detected		Cellulose Fiber	5%
	Note: Gravimetric Reduction	100%			Binder/Filler	95%
2450993-002	Roof 3A					
001B	Sealant, Black/White	LAYER 1	None Detected		Cellulose Fiber	5%
	Note: Gravimetric Reduction	100%			Binder/Filler	95%
2450993-003	Roof 3A					
001C	Sealant, Black/White	LAYER 1	None Detected		Cellulose Fiber	5%
	Note: Gravimetric Reduction	100%			Binder/Filler	95%
2450993-004	Roof 3A					
002A	Caulk, Beige	LAYER 1	None Detected		Cellulose Fiber	8%
	Note: Gravimetric Reduction	100%			Fibrous Glass Binder/Filler	5% 87%
					Billideliii liiel	01.70
2450993-005	Roof 3A	LAYED			0.11.1.57	00/
002B	Caulk, Beige Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass	3% 1%
	Note: Gravimetrio Neddollori	10070			Binder/Filler	96%
2450993-006	Roof 3A					
002C	Caulk, Beige	LAYER 1	None Detected		Cellulose Fiber	3%
	Note: Gravimetric Reduction	100%			Fibrous Glass Binder/Filler	1% 96%
					Binder/Filler	96%
2450993-007	Roof 3A					
003A	Sealant, Black	LAYER 1	None Detected		Cellulose Fiber	1%
	Note: Gravimetric Reduction	100%			Binder/Filler	99%
2450993-008	Roof 3A					
003B	Sealant, Black	LAYER 1	None Detected		Cellulose Fiber	1%
	Note: Gravimetric Reduction	100%			Binder/Filler	99%
2450993-009	Roof 3A					
003C	Sealant, Black	LAYER 1	None Detected		Cellulose Fiber	1%
	Note: Gravimetric Reduction	100%			Binder/Filler	99%

PAGE: 2 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

ADDRESS: 400 Commercial Street CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix
DESCRIPTION: PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ME

ORDER #: 2450993 **PROJECT #**: 211.06085

DATE COLLECTED:

COLLECTED BY: Client

Client 05/03/2024

DATE RECEIVED: 05/03/2024 **ANALYSIS DATE:** 05/10/2024

REPORT DATE: 05/13/2024

ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-010	Roof 3A					
004A	Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-011	Roof 3A					
004B	Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-012	Roof 3A					
004C	Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-013	Roof 3A					
005A	Mortar, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-014	Roof 3A					
005B	Mortar, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-015	Roof 3A					
005C	Mortar, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-016	Roof 3A					
006A	Top Fiber Board/Brown Backing, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-017	Roof 3A					
006B	Top Fiber Board/Brown Backing, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-018	Roof 3A					
006C	Top Fiber Board/Brown Backing, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-019	Roof 3A					
007A	2nd Layer Fiberboard, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%

PAGE: 3 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

ADDRESS: 400 Commercial Street CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix **DESCRIPTION:** PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ORDER #: 2450993 211.06085 PROJECT #:

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 05/10/2024 **ANALYSIS DATE:**

REPORT DATE: 05/13/2024 **ANALYST:** Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-020 007B	Roof 3A 2nd Layer Fiberboard, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-021 007C	Roof 3A 2nd Layer Fiberboard, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-022 008A	Roof 3A Foam Insulation Layer's Black Paper Backing, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-023 008B	Roof 3A Foam Insulation Layer's Black Paper Backing, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-024 008C	Roof 3A Foam Insulation Layer's Black Paper Backing, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-025 011A	Roof 3A Chimney Tower Perimeter Sealant, White/Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	3% 5% 92%
2450993-026 011B	Roof 3A Chimney Tower Perimeter Sealant, White/Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	3% 5% 92%
2450993-027 011C	Roof 3A Chimney Tower Perimeter Sealant, White/Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	3% 5% 92%
2450993-028 012A	Roof 3A Rubbery Caulk Halfway Up Tower Masonry, Gray Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%

PAGE: 4 of 13



85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

400 Commercial Street

Ransom Environmental Consultants, Inc.

BULK SAMPLE ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY

PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

ORDER #: 2450993 PROJECT #: 211.06085

DATE COLLECTED:

ANALYST:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024
ANALYSIS DATE: 05/10/2024
REPORT DATE: 05/13/2024

Jamie Noel

USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ME

Erik Phenix

PLM Analysis

CITY / STATE / ZIP: Portland, ME 04101

CLIENT:

ADDRESS:

CONTACT:

LOCATION:

DESCRIPTION:

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-029 012B	Roof 3A Rubbery Caulk Halfway Up Tower Masonry, Gray Note: Gravimetric Reduction	LAYER 1 100%	None Detected	<u> </u>	Cellulose Fiber Binder/Filler	1% 99%
2450993-030 012C	Roof 3A Rubbery Caulk Halfway Up Tower Masonry, Gray Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-031 013A	Roof 4A Underlayment Paper, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-032 013B	Roof 4A Underlayment Paper, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-033 013C	Roof 4A Underlayment Paper, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
2450993-034 014A	Roof 4A Underlayment Paper, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	92% 8%
2450993-035 014B	Roof 4A Underlayment Paper, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	92% 8%
2450993-036 014C	Roof 4A Underlayment Paper, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	92% 8%
2450993-037 015A	Roof 4A Insulation, Yellow	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%

PAGE: 5 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

ADDRESS: 400 Commercial Street CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix
DESCRIPTION: PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ME

ORDER #: 2450993 **PROJECT #**: 211.06085

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 **ANALYSIS DATE:** 05/10/2024

REPORT DATE: 05/13/2024
ANALYST: Jamie Noel

	REPO	RT OF A	NALYSIS			
Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-038	Roof 4A					
015B	Insulation, Yellow	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-039	Roof 4A					
015C	Insulation, Yellow	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-040	Roof Area 2 Inclusive of all Roof Sections					
016A	Sealant on Brick Mortar, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-041	Roof Area 2 Inclusive of all Roof Sections					
016B	Sealant on Brick Mortar, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-042	Roof Area 2 Inclusive of all Roof Sections					
016C	Sealant on Brick Mortar, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-043	Roof Area 2 Inclusive of all Roof Sections					
017A	LAYER 1 Top Fiber Board Layer, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Underlayment Paper (appears to be an adhesive), Black/Brown Note: Insufficient amount of Material for Full Gravimetrics.	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%

PAGE: 6 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

ADDRESS: 400 Commercial Street

CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix
DESCRIPTION: PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ME

ORDER #: 2450993 **PROJECT #**: 211.06085

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 **ANALYSIS DATE:** 05/10/2024

REPORT DATE: 05/13/2024 **ANALYST**: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-044	Roof Area 2 Inclusive of all Roof Sections					
017B	LAYER 1 Top Fiber Board Layer, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Underlayment Paper (appears to be an adhesive), Black/Brown Note: Insufficient amount of Material for Full Gravimetrics.	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
2450993-045	Roof Area 2 Inclusive of all Roof Sections					
017C	LAYER 1 Top Fiber Board Layer, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Underlayment Paper (appears to be an adhesive), Black/Brown Note: Insufficient amount of Material for Full Gravimetrics.	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
2450993-046	Roof Area 2 Inclusive of all Roof Sections					
018A	LAYER 1 Bottom Fiber Board Layer, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Underlayment Paper (appears to be an adhesive), Black/Brown Note: Insufficient amount of Material for Full Gravimetrics.	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
2450993-047	Roof Area 2 Inclusive of all Roof Sections					
018B	LAYER 1 Bottom Fiber Board Layer, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
	LAYER 2 Underlayment Paper (appears to be an adhesive), Black/Brown Note: Insufficient amount of Material for Full Gravimetrics.	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%

PAGE: 7 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

2450993 211.06085

Client

05/03/2024

05/10/2024

ORDER #:

PROJECT #:

DATE COLLECTED:

COLLECTED BY:

DATE RECEIVED:

ANALYSIS DATE:

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

PLM Analysis

ADDRESS: 400 Commercial Street

CITY / STATE / ZIP: Portland, ME 04101
CONTACT: Erik Phenix

DESCRIPTION:

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

THON: USW (Russell Hall) Roof Aspestos Assessment, G

REPORT DATE: 05/13/2024
ANALYST: Jamie Noel

	ME		ANAL	151:	Jamie Noei			
REPORT OF ANALYSIS								
Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)		
2450993-048	Roof Area 2 Inclusive of all Roof Sections							
018C	LAYER 1 Bottom Fiber Board Layer, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%		
	LAYER 2 Underlayment Paper (appears to be an adhesive), Black/Brown Note: Insufficient amount of Material for Full Gravimetrics.	LAYER 2 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%		
2450993-049	Roof Area 2 Inclusive of all Roof Sections							
019A	Caulk on Flashing, Gray Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%		
2450993-050	Roof Area 2 Inclusive of all Roof Sections							
019B	Caulk on Flashing, Gray Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%		
2450993-051	Roof Area 2 Inclusive of all Roof Sections							
019C	Caulk on Flashing, Gray Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%		
2450993-052	Roof Area 2 Inclusive of all Roof Sections							
020A	Caulk on Parapit, Beige Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%		
2450993-053	Roof Area 2 Inclusive of all Roof Sections							
020B	Caulk on Parapit, Beige Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%		
2450993-054	Roof Area 2 Inclusive of all Roof Sections							
020C	Caulk on Parapit, Beige Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%		

PAGE: 8 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

ADDRESS: 400 Commercial Street CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix
DESCRIPTION: PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ME

ORDER #: 2450993 **PROJECT #**: 211.06085

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 **ANALYSIS DATE:** 05/10/2024

REPORT DATE: 05/13/2024 **ANALYST**: Jamie Noel

	REF	ORT OF A	NALYSIS			
Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-055	Roof Area 2 Inclusive of all Roof Sections					
021A	Sealant on Roof Seams, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-056	Roof Area 2 Inclusive of all Roof Sections					
021B	Sealant on Roof Seams, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-057	Roof Area 2 Inclusive of all Roof Sections					
021C	Sealant on Roof Seams, Black Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-058	Roof Area 2 Inclusive of all Roof Sections					
022A	Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-059	Roof Area 2 Inclusive of all Roof Sections					
022B	Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-060	Roof Area 2 Inclusive of all Roof Sections					
022C	Brick, Red	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-061	Roof Area 2 Inclusive of all Roof Sections					
023A	Mortar, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-062	Roof Area 2 Inclusive of all Roof Sections					
023B	Mortar, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%

PAGE: 9 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc.

ADDRESS: 400 Commercial Street CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix
DESCRIPTION: PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

ME

ORDER #: 2450993 **PROJECT #**: 211.06085

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 **ANALYSIS DATE:** 05/10/2024

REPORT DATE: 05/13/2024

ANALYST: Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
2450993-063	Roof Area 2 Inclusive of all Roof Sections					
023C	Mortar, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-064	Roof Area 2 Inclusive of all Roof Sections					
024A	Cement Panels on Parapit, White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 15% 84%
2450993-065	Roof Area 2 Inclusive of all Roof Sections					
024B	Cement Panels on Parapit, White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 15% 84%
2450993-066	Roof Area 2 Inclusive of all Roof Sections					
024C	Cement Panels on Parapit, White	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	1% 15% 84%
2450993-067	Roof Area 2 Inclusive of all Roof Sections					
025A	Window Glazing, White Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-068	Roof Area 2 Inclusive of all Roof Sections					
025B	Window Glazing, White Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
2450993-069	Roof Area 2 Inclusive of all Roof Sections					
025C	Window Glazing, White Note: Gravimetric Reduction	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%

PAGE: 10 of 13



PLM (EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, EPA-600/ R-93-116 Method for Determination of Asbestos in Bulk Building Materials) NVLAP Lab Code: 101433-0

> ORDER #: 2450993 PROJECT #: 211.06085

DATE COLLECTED:

COLLECTED BY: Client

DATE RECEIVED: 05/03/2024 05/10/2024 **ANALYSIS DATE:**

REPORT DATE: 05/13/2024

ANALYST: Jamie Noel

85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

CLIENT: Ransom Environmental Consultants, Inc. ADDRESS: 400 Commercial Street

CITY / STATE / ZIP: Portland, ME 04101

CONTACT: Erik Phenix **DESCRIPTION:** PLM Analysis

LOCATION: USM (Russell Hall) Roof Asbestos Assessment; Gorham,

REPORT OF ANALYSIS

Laboratory ID Sample Location Layer No. **Asbestos** Non-Asbestos Sample No. Description Layer % Type (%) Components (%)

> **Analyst** Signatory:

Jamie Noel

NVLAP Lab Code: 101433-0

PAGE: 11 of 13

2450993

Client: Ransom Consulting, LLC Contact: Address: Erik Phenix / Wesley Harden / River Fenton 400 Commercial Street, Suite 404, Portland ME 04101 Phone: 207-772-2891 / Cell: 207-272-8673 Fax: Email: wes.harden@ransomenv.com ephenix@ransomenv.com river.fenton@ransomenv.com Project: USM (Russell Hall) Roof Asbestos Assessment Ransom Project # 211.06085 Gorham, ME Client Notes: Positive Stop Requested Please analyze prepare NOB samples via gravimetric reduction, per MEDEP requirements P.O. #. Date Submitted: 5/1/2024 0:00 Analysis Bulk PLM TurnAroundTime: Standard TAT

*Instructions:

Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"

Begin Samples with a "<< "above the first sample

and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Sample No.	Imbar Dullatinati	to facilitate your reintegration of the report dat
Sample Nu	Imber Building/Area	
001A	Poof 24	Sample Description
001B	Roof 3A	Gray spalant
001C	Roof 3A	Gray sealant
002A	Roof 3A	Gray sealant
002A 002B	Roof 3A	Gray sealant
1000 (100 (100 T)	Roof 3A	White caulk
002C	Roof 3A	White caulk
003A	Roof 3A	White caulk
003B	Roof 3A	Black sealant
003C	Roof 3A	Black sealant
004A	Roof 3A	Black sealant
004B	Roof 3A	Red brick associated w/ sample 003
004C	Roof 3A	Red brick associated w/ sample 003
05A	Roof 3A	Red brick associated w/ sample 003
05B	Roof 3A	Mortar associated w/ sample 002
05C	Roof 3A	Mortas associated w/ sample 002
06A		Mortar associated w/ sample 002
06B	Roof 3A	Mortar associated w/ sample 002
06C	Roof 3A	Top fiber board + brown backing
07A	Roof 3A	Top fiber board + brown backing
07B	Roof 3A	Top fiber board + brown backing
07C	Roof 3A	2nd layer fiberboard
2.03(27)	Roof 3A	2nd layer fiberboard
D8A	Roof 3A	2nd layer fiberboard
08B	Roof 3A	Foam insulation layer's black paper backing
08C	Roof 3A	Foam insulation layer's black paper backing
11A	Roof 3A	Foam insulation layer's black paper backing
1B	Roof 3A	Chimney tower perimeter sealant
1C	Roof 3A	Chimney tower perimeter sealant
2A	Roof 3A	Chimney tower perimeter sealant
2B	Roof 3A	Gray rubbery caulk halfway up tower masonry
2C	Roof 3A	Gray riphest cault half way up tower masonry
	NOOI 3A	Gray rubbery caulk halfway up tower masonry
0.4		Gray rubbery caulk halfway up tower masonry
3A	Roof 4A	Brown underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
3B	Roof 4A	Brown underlayment paper under too reaffer to
3Ċ		with Roof Area 3A and was not sampled)
-	Roof 4A	Brown underlayment paper under top roofing layer (top roofing laye was consistent with Roof Area 3A and was not sampled)
IA	Roof 4A	Black underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
IB	Roof 4A	Black underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
C	Roof 4A	Black underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
Α.	Roof 4A	consistent
В	Roof 4A	with Roof Area 3A and was not sampled) Insulation layer under top roofing layer (top roofing layer was consistent
o.		with Roof Area 3A and was not sampled) insulation layer under top roofing layer (top roofing layer was consistent
C	Roof 4A	consistent
Α-	Roof Area 2 Inclusive of all Roof Sections	with Roof Area 3A and was not sampled)
3	Roof Area 2 Inclusive of all Roof Sections	Black sealant on brick mortar
C.	Roof Area 2 Inclusive of all Roof Sections	Black sealant on brick mortar
١.	Roof Area 2 Inclusive of all Roof Sections	Black sealant on brick mortar
١		

Hills 5/3/24 9:32

2450993

*Instructions: Ransom Consulting, LLC Client: Use Column "B" for your contact info Erik Phenix / Wesley Harden / River Fenton Contact: 400 Commercial Street, Suite 404, Portland ME 04101 Address: To See an Example Click the 207-772-2891 / Cell: 207-272-8673 Phone: bottom Example Tab. Fax: Email: wes.harden@ransomenv.com Enter samples between "<<" and ">>" ephenix@ransomenv.com river.fenton@ransomenv.com Begin Samples with a "<< "above the first sample USM (Russell Hall) Roof Asbestos Assessment Project: Ransom Project # 211.06085 and end with a ">>" below the last sample. Gorham, ME Only Enter your data on the first sheet "Sheet1" Positive Stop Requested Client Notes Please analyze prepare NOB samples via gravimetric reduction, per MEDEP requirements Note: Data 1 and Data 2 are optional P.O. #. fields that do not show up on the official 5/1/2024 0:00 Date Submitted: report, however they will be included in the electronic data returned to you Bulk PLM Analysis: to facilitate your reintegration of the report data Standard TAT TurnAroundTime: Top fiber board layer w/ black underlayment paper Roof Area 2 Inclusive of all Roof Sections Top fiber board layer w/ black underlayment paper Roof Area 2 Inclusive of all Roof Sections 017C Bottom fiber board layer w/ black underlayment paper Roof Area 2 Inclusive of all Roof Sections 018A Bottom fiber board layer w/ black underlayment paper Roof Area 2 Inclusive of all Roof Sections 018B Bottom fiber board layer w/ black underlayment paper Roof Area 2 Inclusive of all Roof Sections 018C Gray caulk on flashing Roof Area 2 Inclusive of all Roof Sections 019A Gray caulk on flashing Roof Area 2 Inclusive of all Roof Sections 019B Gray caulk on flashing Roof Area 2 Inclusive of all Roof Sections 019C White caulk on parapit Roof Area 2 Inclusive of all Roof Sections 020A Roof Area 2 Inclusive of all Roof Sections White caulk on parapit 020B White caulk on parapit Roof Area 2 Inclusive of all Roof Sections 020C Black sealant on roof seams Roof Area 2 Inclusive of all Roof Sections 021A Black sealant on roof seams Roof Area 2 Inclusive of all Roof Sections 021B Black sealant on roof seams Roof Area 2 Inclusive of all Roof Sections 021C -Red brick on connecting wall associated w/ sample 023 Roof Area 2 Inclusive of all Roof Sections 022A Red brick on connecting wall associated w/ sample 023 Roof Area 2 Inclusive of all Roof Sections 022B Red brick on connecting wall associated w/ sample 023 Roof Area 2 Inclusive of all Roof Sections 022C Mortar associated w/ sample 022 Roof Area 2 Inclusive of all Roof Sections 023A Mortar associated w/ sample 022 Roof Area 2 Inclusive of all Roof Sections 023B Mortar associated w/ sample 022 Roof Area 2 Inclusive of all Roof Sections 023C Cement panels on parapit Roof Area 2 Inclusive of all Roof Sections 024A Cement panels on parapit Roof Area 2 Inclusive of all Roof Sections 024B Cement panels on parapit Roof Area 2 Inclusive of all Roof Sections 024C Window glazing

Roof Area 2 Inclusive of all Roof Sections

Roof Area 2 Inclusive of all Roof Sections

Roof Area 2 Inclusive of all Roof Sections

025A

025B

025C >>

Pelle 5/3/24 9:32

Window glazing

Window glazing



ANALYTICAL REPORT

Lab Number: L2424714

Client: Ransom Consulting, LLC.

400 Commercial Street

Suite 404

Portland, ME 04101-4660

ATTN: Erik Phenix
Phone: (207) 772-2891

Project Name: RUSSELL HALL ROOF ASSESS.

Project Number: 211.06085.013

Report Date: 05/10/24

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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).

ALPHA ANALYTISAL Project Name: RUSSELL HALL ROOF ASSESS.

Project Number: 211.06085.013

Lab Number:

L2424714

Report Date: 05/10/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2424714-01	LBP-01	SOLID	USM, GORHAM CAMPUS	04/30/24 09:50	05/06/24
L2424714-02	LBP-02	SOLID	USM, GORHAM CAMPUS	04/30/24 11:00	05/06/24
L2424714-03	LBP-03	SOLID	USM, GORHAM CAMPUS	04/30/24 12:30	05/06/24



Project Name:RUSSELL HALL ROOF ASSESS.Lab Number:L2424714Project Number:211.06085.013Report Date:05/10/24

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:RUSSELL HALL ROOF ASSESS.Lab Number:L2424714Project Number:211.06085.013Report Date:05/10/24

Case Narrative (continued)

Total Metals

L2424714-01 through -03: The sample has an elevated detection limit due to the dilution required by the sample matrix.

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:

Title: Technical Director/Representative Date: 05/10/24

Michelle M. Morris

METALS



Project Name: Lab Number: RUSSELL HALL ROOF ASSESS. L2424714 **Project Number:** 211.06085.013

SAMPLE RESULTS

Report Date:

05/10/24

Lab ID: L2424714-01

Date Collected:

04/30/24 09:50

Client ID: Sample Location: USM, GORHAM CAMPUS

LBP-01 Date Received: Field Prep:

05/06/24 Not Specified

Sample Depth:

Matrix: Solid

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	104		mg/kg	38.0		8	05/09/24 00:4	3 05/09/24 20:1	4 EPA 3050B	1,6010D	JMF



Project Name: Lab Number: RUSSELL HALL ROOF ASSESS. L2424714 05/10/24

Project Number: 211.06085.013 **Report Date:**

SAMPLE RESULTS

L2424714-02

Date Collected:

04/30/24 11:00

Client ID: LBP-02 Sample Location:

Date Received:

Field Prep:

05/06/24

USM, GORHAM CAMPUS

Not Specified

Sample Depth:

Lab ID:

Matrix: Solid

Percent Solids:

Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	nsfield Lab										
Lead, Total	605		mg/kg	18.6		4	05/09/24 00:4	3 05/09/24 20:20	D EPA 3050B	1,6010D	JMF



Project Name:RUSSELL HALL ROOF ASSESS.Lab Number:L2424714Project Number:211.06085.013Report Date:05/10/24

SAMPLE RESULTS

 Lab ID:
 L2424714-03
 Date Collected:
 04/30/24 12:30

 Client ID:
 LBP-03
 Date Received:
 05/06/24

Sample Location: USM, GORHAM CAMPUS Field Prep: Not Specified

Sample Depth:

Matrix: Solid

Percent Solids: Results are reported on an 'AS RECEIVED' basis.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	863		mg/kg	18.2		4	05/09/24 00:4	3 05/09/24 20:2	7 EPA 3050B	1,6010D	JMF



Project Name: RUSSELL HALL ROOF ASSESS. Lab

Lab Number:

L2424714

Project Number: 211.06085.013

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Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
Total Metals - Mar	nsfield Lab for sample(s):	01-03 B	atch: W	G19187	12-1				
Lead, Total	ND	mg/kg	2.00		1	05/09/24 00:43	05/09/24 16:57	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: RUSSELL HALL ROOF ASSESS.

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	le(s): 01-03 Bat	ch: WG191	8712-2					
Lead, Total	94		-		80-120	-		



Project Name: RUSSELL HALL ROOF ASSESS.

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Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	Cooler pH		deg C Pres		Seal	Date/Time	Analysis(*)
L2424714-01A	Amber 120ml unpreserved	Α	NA		2.0	Υ	Absent		PB-TI(180)
L2424714-02A	Amber 120ml unpreserved	Α	NA		2.0	Υ	Absent		PB-TI(180)
L2424714-03A	Amber 120ml unpreserved	Α	NA		2.0	Υ	Absent		PB-TI(180)



Project Name: RUSSELL HALL ROOF ASSESS. Lab Number: L2424714

Project Number: 211.06085.013 Report Date: 05/10/24

GLOSSARY

Acronyms

EDL

EMPC

LOD

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)

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 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).

 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.

- 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

oniy.)

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

Omy.

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 maintain contents where applicable.

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



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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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- ${\bf J} \qquad \hbox{-Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs)}.$
- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name:RUSSELL HALL ROOF ASSESS.Lab Number:L2424714Project Number:211.06085.013Report Date:05/10/24

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.
- 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: RUSSELL HALL ROOF ASSESS. Lab Number: L2424714
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REFERENCES

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.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:05102418:29

ID No.:17873 Revision 21

Published Date: 04/17/2024 Page 1 of 1

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, SM4500CI-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 Kieldahl-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 II, 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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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WESTBORO, MA TEL: 508-898-9220		Project Infor Project Name:		all Ros	C Acres	100000000000000000000000000000000000000	out our sound	rmation	- Data D	eliver	ables	NAME OF TAXABLE PARTY.		nformation s Client info PO#: 6338	
FAX: 508-698-9193 Client Information	FAX: 508-822-3288	Project Location	IICA A	neo III	CHUO	X AI		(5)752		erables				6 337	
Address: 400 C	CBUSALLIAN LE	Project Location Project #: 21 Project Manage ALPHA Quote #	Erik P	042	Cantas		latory R Fed <i>Pr</i> o		ents/Re	Criter					
Phone:		Turn-Around	i Time												
These samples have Other Project Sp	den @ransomenv.com hon@ransomenv.com been previously analyzed by Alpha becific Requirements/Comm run TCLP for	Date Due: ents/Detection		Time:	20	A A ANALYSIS	5/ /							SAMPLE HANDLING Filtration Done Not needed Lab to do Preservation Lab to do	TOTAL # BOTT
ALPHA Lab ID (Lab Use Only)	Sample ID	Dai	Collection e Time	Sample Matrix	Sampler's Initials	76		//	//		//	1	11	(Please specify below) Sample Specific Comments	L E
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Page 17 of 17	Tronge 2	AA		5/6/2	1415	4	1 11 e	- AAL		5	5624	(16.	30	All samples submitted are subject Alpha's Terms and Conditions. See reverse side.	1 10

Client: Ransom Consulting, LLC *Instructions: Contact: Erik Phenix / Wesley Harden / River Fenton Use Column "B" for your contact info Address: 400 Commercial Street, Suite 404, Portland ME 04101 Phone: 207-772-2891 / Cell: 207-272-8673 To See an Example Click the Fax: bottom Example Tab. Email: wes.harden@ransomenv.com ephenix@ransomenv.com Enter samples between "<<" and ">>" iver.fenton@ransomenv.com USM (Russell Hall) Roof Asbestos Assessment Begin Samples with a "<< "above the first sample Project: Ransom Project # 211.06085 Gorham, ME and end with a ">>" below the last sample. Client Notes: Positive Stop Requested Only Enter your data on the first sheet "Sheet1" Please analyze prepare NOB samples via gravimetric reduction, per MEDEP requirements P.O. #. Note: Data 1 and Data 2 are optional 5/1/2024 0:00 Date Submitted: fields that do not show up on the official report, however they will be included in the electronic data returned to you Bulk PLM Analysis: TurnAroundTime: Standard TAT to facilitate your reintegration of the report data.

Sample Number	Building/Area	Sample Description
<<		
001A	Roof 3A	Gray sealant
001B	Roof 3A	Gray sealant
001C	Roof 3A	Gray sealant
002A	Roof 3A	White caulk
002B	Roof 3A	White caulk
002C	Roof 3A	White caulk
003A	Roof 3A	Black sealant
003B	Roof 3A	Black sealant
003C	Roof 3A	Black sealant
004A	Roof 3A	Red brick associated w/ sample 003
004B	Roof 3A	Red brick associated w/ sample 003
004C	Roof 3A	Red brick associated w/ sample 003
005A	Roof 3A	Mortar associated w/ sample 002
005B	Roof 3A	Mortar associated w/ sample 002
005C	Roof 3A	Mortar associated w/ sample 002
006A	Roof 3A	Top fiber board + brown backing
006B	Roof 3A	Top fiber board + brown backing
006C	Roof 3A	Top fiber board + brown backing
007A	Roof 3A	2nd layer fiberboard
007B	Roof 3A	2nd layer fiberboard
007C	Roof 3A	2nd layer fiberboard
008A	Roof 3A	Foam insulation layer's black paper backing
008B	Roof 3A	Foam insulation layer's black paper backing
008C	Roof 3A	Foam insulation layer's black paper backing
011A	Roof 3A	Chimney tower perimeter sealant
011B 011C	Roof 3A Roof 3A	Chimney tower perimeter sealant
011C 012A	Roof 3A	Chimney tower perimeter sealant
012A 012B	Roof 3A	Gray rubbery caulk halfway up tower masonry
012D 012C	Roof 3A	Gray rubbery caulk halfway up tower masonry Gray rubbery caulk halfway up tower masonry
0120	1001 071	
013A	Roof 4A	Brown underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
013B	Roof 4A	Brown underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
013C	Roof 4A	Brown underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
014A	Roof 4A	Black underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
014B	Roof 4A	Black underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled)
014C	Roof 4A	Black underlayment paper under top roofing layer (top roofing layer was consistent with Roof Area 3A and was not sampled) Insulation layer under top roofing layer (top roofing layer was
015A	Roof 4A	consistent with Roof Area 3A and was not sampled) Insulation layer under top roofing layer (top roofing layer was
015B	Roof 4A	consistent with Roof Area 3A and was not sampled) insulation layer under top roofing layer (top roofing layer was
015C	Roof 4A	consistent with Roof Area 3A and was not sampled)
016A	Roof Area 2 Inclusive of all Roof Sections	Black sealant on brick mortar
016B	Roof Area 2 Inclusive of all Roof Sections	Black sealant on brick mortar
016C	Roof Area 2 Inclusive of all Roof Sections	Black sealant on brick mortar
017A	Roof Area 2 Inclusive of all Roof Sections	Top fiber board layer w/ black underlayment paper

Client: Ransom Consulting, LLC *Instructions: Contact: Erik Phenix / Wesley Harden / River Fenton Use Column "B" for your contact info Address: 400 Commercial Street, Suite 404, Portland ME 04101 Phone: 207-772-2891 / Cell: 207-272-8673 To See an Example Click the bottom Example Tab. Fax: Email: wes.harden@ransomenv.com ephenix@ransomenv.com Enter samples between "<<" and ">>" iver.fenton@ransomenv.com USM (Russell Hall) Roof Asbestos Assessment Begin Samples with a "<< "above the first sample Project: Ransom Project # 211.06085 Gorham, ME and end with a ">>" below the last sample. **Client Notes:** Positive Stop Requested Only Enter your data on the first sheet "Sheet1" Please analyze prepare NOB samples via gravimetric reduction, per MEDEP requirements P.O. #. Note: Data 1 and Data 2 are optional 5/1/2024 0:00 Date Submitted: fields that do not show up on the official report, however they will be included Bulk PLM Analysis: in the electronic data returned to you TurnAroundTime: Standard TAT to facilitate your reintegration of the report data.

017B Roof Area 2 Inclusive of all Roof Sections Top fiber board layer w/ black underlayment paper 017C Roof Area 2 Inclusive of all Roof Sections Top fiber board layer w/ black underlayment paper 018A Roof Area 2 Inclusive of all Roof Sections Bottom fiber board layer w/ black underlayment paper 018B Roof Area 2 Inclusive of all Roof Sections Bottom fiber board layer w/ black underlayment paper 018C Roof Area 2 Inclusive of all Roof Sections Bottom fiber board laver w/ black underlayment paper 019A Roof Area 2 Inclusive of all Roof Sections Gray caulk on flashing 019B Roof Area 2 Inclusive of all Roof Sections Gray caulk on flashing 019C Roof Area 2 Inclusive of all Roof Sections Gray caulk on flashing 020A Roof Area 2 Inclusive of all Roof Sections White caulk on parapit Roof Area 2 Inclusive of all Roof Sections 020B White caulk on parapit 020C Roof Area 2 Inclusive of all Roof Sections White caulk on parapit 021A Roof Area 2 Inclusive of all Roof Sections Black sealant on roof seams 021B Roof Area 2 Inclusive of all Roof Sections Black sealant on roof seams 021C Roof Area 2 Inclusive of all Roof Sections Black sealant on roof seams 022A Roof Area 2 Inclusive of all Roof Sections Red brick on connecting wall associated w/ sample 023 022B Roof Area 2 Inclusive of all Roof Sections Red brick on connecting wall associated w/ sample 023 022C Roof Area 2 Inclusive of all Roof Sections Red brick on connecting wall associated w/ sample 023 023A Roof Area 2 Inclusive of all Roof Sections Mortar associated w/ sample 022 023B Roof Area 2 Inclusive of all Roof Sections Mortar associated w/ sample 022 023C Roof Area 2 Inclusive of all Roof Sections Mortar associated w/ sample 022 024A Roof Area 2 Inclusive of all Roof Sections Cement panels on parapit 024B Roof Area 2 Inclusive of all Roof Sections Cement panels on parapit Roof Area 2 Inclusive of all Roof Sections 024C Cement panels on parapit 025A Roof Area 2 Inclusive of all Roof Sections Window glazing 025B Roof Area 2 Inclusive of all Roof Sections Window glazing Roof Area 2 Inclusive of all Roof Sections 025C Window glazing >>