# Addendum No. 1

December 5, 2023

To Contract Documents for

# CURTIS HALL RENOVATIONS Castine, ME

Maine Maritime Academy 1 Pleasant Street, Castine, ME 04421

CHA Project Number 076982

BGS Project Number 3397



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This Addendum modifies, amends and supplements designated parts of the Contract Documents, Project Manual and Drawings for

Curtis Hall Renovations at Maine Maritime Academy, dated November 22, 2023 and is hereby made a part thereof by reference and shall be as binding as though inserted in its entirety in the locations specified herein. It shall be the responsibility of the Contractor to notify all Subcontractors and Suppliers they propose to use for the various parts of the work of any changes or modifications contained in this Addendum.

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# **GENERAL INFORMATION**

1. Note: The original Project Manual posted on the BGS website was a draft specification and was replaced with the correct full Project Manual on Nov. 29<sup>,</sup> 2023.

# PART I- ADDENDUM FOR CIVIL SPECIFICATIONS AND DRAWINGS:

# 1. None

# PART II- ADDENDUM FOR STRUCTURAL SPECIFICATIONS AND DRAWINGS:

# **1.** CHANGES TO THE SPECIFICATIONS

a. NONE

# **2.** CHANGES TO THE DRAWINGS

- a. Drawing S000 Structural General Information: Added masonry Notes.
- b. Drawing S101.1Phase 1 First Floor Structural Plans: Minor notes and Plan Reference Modifications
- c. Drawing S101.2Phase 1 Second Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- d. Drawing S101.3Phase 1 Third Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- e. Drawing S101.4 Phase 1 Fourth Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- f. Drawing S101.5 Phase 1 Roof Level Structural Plans: Added note regarding no access or available information relative to existing roof framing, deck removal and putback, masonry demo and put back modifications, finalized dunnage member sizing and detail callouts, and Plan Reference Modifications.
- g. Drawing S101.G Phase 1 First Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- h. Drawing S102.1 Phase 2 First Floor Structural Plans: Existing Framing sizes annotated, minor notes and Plan Reference Modifications



- i. Drawing S102.2 Phase 2 Second Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- j. Drawing S102.3 Phase 2 Third Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- k. Drawing S102.4 Phase 2 Roof Level Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- I. Drawing S102.5 Phase 2 Added note regarding no access or available information relative to existing roof framing, masonry demo and put back modifications, finalized dunnage member sizing and detail callouts, and Plan Reference Modifications.
- m. Drawing S103.1 Phase 3 First Floor Structural Plans: Existing Framing sizes annotated, Floor Hatch location identified, Slab demo extents revised, minor notes and Plan Reference Modifications
- n. Drawing S103.2 Phase 3 Second Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- o. Drawing S103.3 Phase 3 Third Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- p. Drawing S103.4 Phase 3 Roof Level Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- q. Drawing S103.5 Phase 3 Roof Level Structural Plan: Added note regarding no access or available information relative to existing roof framing, deck removal and putback, masonry demo and put back modifications, finalized dunnage member sizing and detail callouts, and Plan Reference Modifications.
- r. Drawing S104.2 Phase 4 Second Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- s. Drawing S104.3 Phase 4 Third Floor Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- t. Drawing S104.4 Phase 4 Fourth Level Structural Plans: Existing Framing sizes annotated, masonry demo and put back modifications, and Plan Reference Modifications.
- u. Drawing S104.5 Phase 4 Roof Level Structural Plan: Added note regarding no access or available information relative to existing roof framing, deck removal and putback, masonry demo and put back modifications, finalized dunnage member sizing and detail callouts, and Plan Reference Modifications.
- v. Drawing S202 DELETE in its entirety.
- w. Drawing S401 Enlarged Structural Framing Part Plans: Completed annotation and section callouts for roof and condenser dunnage configurations.
- x. Drawing S402 Entry Canopy Structural Framing Plan: Updated detailing.
- y. Drawing S500 Structural Details: Revised details.
- z. Drawing S501 Structural Details: Completed annotation and section callouts for roof and condenser dunnage configurations, added details.

# PART III- ADDENDUM FOR ARCHITECTURAL PROJECT MANUALS AND DRAWINGS:

# **1.** CHANGES TO THE SPECIFICATIONS

- a. Section 017400 CONSTRUCTION WASTE MANAGEMENT with revised version attached with changes noted in **Bold. REPLACE** the section in its entirety.
- b. Section 028210-ASBESTOS ABATEMENT **ADD** the section in its entirety.
- c. Section 00110-TABLE OF CONTENTS changes indicated in Bold adding Asbestos Abatement **REPLACE** the section in its entirety.
- d. Appendix 1 Hazardous Materials Assessment for Curtis Hall ADD the section in its entirety.
- e. Appendix 2 Supplemental ACM Roof Sample Results for Curtis Hall **ADD** the section in its entirety.



# **2.** CHANGES TO THE DRAWINGS

- a. Drawing COVER SHEET **REPLACE** the sheet in its entirety. Includes additions and deletions to the drawing list.
- b. Drawing A000.1 GENERAL **REPLACE** the sheet in its entirety. includes updates to general notes, keynote legends, and alternate language.
- c. Drawing A203 -EXTERIOR ELEVATIONS LOBBY **REPLACE** the sheet in its entirety. Includes updates to sheet title, storefront tags placed, mullion added to window, exterior elevation view adjusted to show windows.
- d. Drawing A210 INTERIOR ELEVATIONS, **REPLACE** the sheet in its entirety. includes updates to notes added to views
- e. Drawing A401 TYPICAL ENLARGED PLANS BATHROOMS. **REPLACE** the sheet in its entirety.
- f. Drawing H100 GROUND FLOOR IDENTIFIED ASBESTOS-CONTAINING MATERIALS. **ADD** the sheet in its entirety
- g. Drawing H101-FIRST FLOOR IDENTIFIED ASBESTOS-CONTAINING MATERIALS. ADD the sheet in its entirety
- h. Drawing H102-SECOND FLOOR IDENTIFIED ASBESTOS-CONTAINING MATERIALS. **ADD** the sheet in its entirety
- i. Drawing H103-THIRD FLOOR IDENTIFIED ASBESTOS-CONTAINING MATERIALS. **ADD** the sheet in its entirety
- j. Drawing H104-FOURTH FLOOR IDENTIFIED ASBESTOS-CONTAINING MATERIALS. **ADD** the sheet in its entirety

# PART IV- ADDENDUM FOR MECHANICAL SPECFICATIONS AND DRAWINGS:

# **1. CHANGES TO THE SPECIFICATIONS**

a. Section 211000 – Fire-Suppression Sprinkler System: ADD the section in its entirety.

# **2.** CHANGES TO THE DRAWINGS

Revised Mechanical drawings: pipe sizes, duct sizes, keyed notes, refrigerant piping layouts, expansion joints, view scale, schedules, etc.

- a. MEP000
- b. M101.G
- c. M101.0
- d. MH101.1
- e. MP101.1
- f. M101.2
- g. M101.3
- h. M101.4
- i. M101.5
- j. MH102.1
- k. MP102.1
- l. M102.2
- m. M102.3
- n. M102.4
- o. M102.5
- p. MH103.1
- q. MP103.1
- . r. M103.2
- s. M103.3
- t. M103.4
- u. M103.5
- v. M104.G



- w. MH104.1
- x. MP104.1
- y. M104.2
- z. M104.3
- aa. M104.4
- bb. M104.5
- cc. M601
- dd. M603
- a. Revised Fire Protection drawings: hatched soffit callouts, notes, etc.
  - a. FP100.0
  - b. FP100.1
  - c. FP100.2
  - d. FP100.3
  - e. FP100.4

# PART V- ADDENDUM FOR ELECTRICAL SPECIFICATIONS AND DRAWINGS:

# **1. CHANGES TO SPECIFICATIONS**

a. None

# **2.** CHANGES TO DRAWINGS

- a. All EL- series drawings:
- b. updated keynotes for clarity; updated stairwell layouts; updated various missing keynotes on plans; added missing EBUs; revised fixture types
- c. EP101.5, EP102.5, EP103.5, EP104.5 added service receptacles at equipment
- d. EP101.0 updated view title for consistency
- e. EP102.1 updated courtyard horn/strobe candela rating
- f. EP103.1 updated main entry fire alarm, door operator, and card reader
- g. EP104.3 removed duplicate panel
- h. E400 updated typical room layouts
- i. E600 added technology matrix symbology
- j. E601 updated mechanical equipment schedule
- k. E602, E603 updated panel schedules

# END OF ADDENDUM

# **PROJECT MANUAL**

# TABLE OF CONTENTS

# **DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS**

Document 002113Instructions to BiddersDocument 004113Contractor Bid FormDocument 005213Contract AgreementDocument 006113.13Contractor Performance BondDocument 006113.16Contractor Payment BondDocument 007100DefinitionsDocument 007213General ConditionsDocument 007346Wage Determination Schedule

# **DIVISION 01 - GENERAL REQUIREMENTS**

| Section 011000 | General Requirements                             |
|----------------|--|
| Section 011080 | Health and Safety Procedures                     |
| Section 012100 | Allowances                                       |
| Section 012200 | Unit Prices                                      |
| Section 012300 | Alternates                                       |
| Section 013220 | Photographic Documentation                       |
| Section 014000 | Special Inspections                              |
| Section 016200 | Substitution Request Form                        |
| Section 017400 | Construction Waste Management                    |
| Section 018120 | Construction Indoor Air Quality (IAQ) Management |
|                |  |

# **DIVISION 02 - EXISTING CONDITIONS**

Section 024100 Demolition Section 028210 Asbestos Abatement

# **DIVISION 03 - CONCRETE**

| Section 033000 | Cast-In-Place Concrete  |
|----------------|-------------------------|
| Section 037300 | Concrete Rehabilitation |

# **DIVISION 04 - MASONRY**

| Section 042000 | Unit Masonry       |
|----------------|--------------------|
| Section 047200 | Cast Stone Masonry |

# **DIVISION 05 - METALS**

| Section 051200 | Structural Steel          |
|----------------|---------------------------|
| Section 052100 | Steel Joists              |
| Section 053100 | Steel Deck                |
| Section 054000 | Cold-Formed Metal Framing |
| Section 055000 | Metal Fabrications        |

# **DIVISION 06 - WOOD, PLASTICS AND COMPOSITES**

Section 061000 Rough Carpentry

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Section 061600SheathingSection 064020Interior Architectural WoodworkSection 064200Paneling

# **DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

| Section 070150 | Modifications to Existing Roofing            |
|----------------|--|
| Section 072100 | Thermal Insulation                           |
| Section 072419 | Exterior Insulation and Finish System (EIFS) |
| Section 072700 | Air Barriers                                 |
| Section 074200 | Metal Wall Panels                            |
| Section 075300 | EPDM Roofing                                 |
| Section 076200 | Sheet Metal Flashing and Trim                |
| Section 077100 | Roof Specialties                             |
| Section 077200 | Roof Accessories                             |
| Section 078410 | Penetration Firestopping                     |
| Section 078440 | Fire-Resistive Joint Systems                 |
| Section 079200 | Joint Sealants                               |

# **DIVISION 08 - OPENINGS**

| Section 081110 | Hollow Metal Doors and Frames             |
|----------------|---|
| Section 081210 | Interior Aluminum Frames                  |
| Section 081400 | Flush Wood Doors                          |
| Section 083110 | Access Doors and Frames                   |
| Section 084110 | Aluminum-Framed Entrances and Storefronts |
| Section 085110 | Aluminum Windows                          |
| Section 087100 | Door Hardware                             |
| Section 088000 | Glazing                                   |

# **DIVISION 09 - FINISHES**

| Gypsum Board Assemblies             |
|-------------------------------------|
| Gypsum Board Shaft-Wall Assemblies  |
| Tiling                              |
| Acoustical Ceilings                 |
| Resilient Wall Base and Accessories |
| Carpeting                           |
| Wall Coverings                      |
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# **DIVISION 10 - SPECIALTIES**

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| Section 101400 | Signage                     |
| Section 102800 | Toilet Accessories          |
| Section 102819 | Shower Enclosures           |
| Section 104400 | Fire Protection Specialties |

# DIVISION 11 - EQUIPMENT (NOT USED)

# **DIVISION 12 - FURNISHINGS**

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| Section 124810 | Entrance Floor Mats and Frames |

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# DIVISION 21 – FIRE SUPPRESSION

Section 211000 Fire-Suppression Sprinklers

# **DIVISION 22 – PLUMBING**

| Section 220700 | Plumbing Insulation                |
|----------------|------------------------------------|
| Section 220800 | Commissioning of Plumbing          |
| Section 221116 | Domestic Water Piping              |
| Section 221316 | Plumbing Sanitary and Storm Piping |
| Section 223500 | Domestic-Water Heat Exchangers     |
| Section 224000 | Plumbing Fixtures                  |
|                |                                    |

# DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

| Section 230500<br>Section 230593<br>Section 230700 | Common Work Results for Mechanical<br>Testing, Adjusting, And Balancing for Hvac<br>Mechanical Insulation |
|--|---|
| Section 230800                                     | Commissioning of HVAC   |
| Section 230900                                     | Instrumentation and Control for Hvac  |
| Section 230993                                     | Sequence of Operations  |
| Section 232113                                     | Hydronic HVAC Piping  |
| Section 232123                                     | Hydronic Pumps  |
| Section 232213                                     | Steam and Condensate Piping   |
| Section 232300                                     | Refrigerant Piping  |
| Section 233113                                     | Ductwork  |
| Section 233423                                     | Power and Gravity Ventilators   |
| Section 233424                                     | Exhaust Capture Systems   |
| Section 233713                                     | Diffusers, Registers, And Grilles   |
| Section 235700                                     | Steam to Hot Water Converters   |
| Section 237200                                     | Air-To-Air Energy Recovery Equipment  |
| Section 237433                                     | Dedicated Outdoor-Air Units   |
| Section 238129                                     | Variable-Refrigerant-Flow Hvac Systems  |
| Section 238216                                     | Duct Mounted Hot Water Heating Coils  |
| Section 238219                                     | Fan-Coil Units  |
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# **DIVISION 26 – ELECTRICAL**

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- Section 260513 Medium-Voltage Cables
- Section 260519 Low-Voltage Electrical Power Conductors and Cables
- Section 260526 Grounding and Bonding for Electrical Systems
- Section 260529 Hangers and Supports for Electrical Systems
- Section 260533 Raceways and Boxes for Electrical Systems
- Section 260543 Underground Ducts and Raceways for Electrical Systems
- Section 260544 Sleeves and Sleeve Seals for Electrical Raceways and Cabling
- Section 260548 Seismic Controls for Electrical Systems
- Section 260553 Identification for Electrical Systems
- Section 260572 Overcurrent Protective Device Short-Circuit Study
- Section 260573 Overcurrent Protective Device Coordination Study

| Section 260574    | Overcurrent Protective Device Arc-Flash Study           |
|-------------------|---|
| Section 260800    | Commissioning of Electrical Systems                     |
| Section 260923    | Lighting Control Devices                                |
| Section 261219    | Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers |
| Section 262413    | Switchboards  |
| Section 262416    | Panelboards   |
| Section 262713    | Electricity Metering                                    |
| Section 262726    | Wiring Devices  |
| Section 262813    | Fuses   |
| Section 262816    | Enclosed Switches and Circuit Breakers                  |
| Section 262913    | Enclosed Controllers                                    |
| Section 263213.13 | Diesel Emergency Engine Generators                      |
| Section 263600    | Transfer Switches                                       |
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# **DIVISION 28 - ELECTRONIC SAFETY AND SECURITY**

| Section 280513 | Conductors and Cables for Electronic Safety and Security |
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| Section 283111 | Digital, Addressable Fire-Alarm System                   |
| Section 283115 | Emergency Responder Radio Antenna/Repeater System        |

# **DIVISION 31 – EARTHWORK**

| Section 311000 | Site Clearing    |
|----------------|------------------|
| Section 312213 | Rough Grading    |
| Section 312316 | Excavation       |
| Section 312317 | Trenching        |
| Section 312318 | Rock Removal     |
| Section 312323 | Backfill         |
| Section 322513 | Erosion Controls |
| Section 313800 | Geotextiles      |

# **DIVISION 32 – EXTERIOR IMPROVEMENTS**

| Section 321216 | Asphaltic Paving                  |
|----------------|-----------------------------------|
| Section 323119 | Decorative Metal Fences and Gates |
| Section 329219 | Seeding                           |

# **DIVISION 33 – UTILITIES**

| Section 331113 | Public Water Utility Distribution Piping |
|----------------|--|
| Section 331216 | Water Utility Distribution Valves        |

- Section 331300 Disinfection of Water Utility Systems
- Section 333100 Sanitary Sewage Systems
- Section 337119 Electrical Underground Ducts, Ductbanks, and Manholes

APPENDICES

# Appendix 1Hazardous Materials Assessment for Curtis HallAppendix 2Supplemental ACM Roof Sample Results for Curtis Hall

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# SECTION 017400

# CONSTRUCTION WASTE MANAGEMENT

# PART 1 - GENERAL

- 1.1 GENERAL PROVISIONS
  - A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.

# 1.2 SUMMARY

- A. This Section includes requirements for the Contractor's implementation of waste management controls and systems for the duration of the Work.
- B. Develop a waste management plan, quantifying material diversion by either weight or volume to recycle and/or salvage non-hazardous construction and demolition debris.

# 1.3 INTENT

- A. The Owner and Architect have established that this Project shall generate the least amount of waste practical and that processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors shall be employed.
- B. With regard to these goals the Contractor shall develop, for the Architect's review, a Construction Waste Management Plan (CWMP) for this Project.
- C. Each Subcontractor shall be responsible for segregating his own waste into different dumpsters as directed by the Contractor.
- D. Contractor shall be responsible for ensuring that debris will be disposed of at appropriately designated licensed solid waste disposal facilities, as defined by MGL Chapter 111, Section 150A.

# 1.4 SUBMITTALS

- A. Waste Management Plan (WMP): Submit within 21 calendar days after receipt of Notice to Proceed, in a format acceptable to the Owner.
  - 1. Analysis of the proposed jobsite waste to be generated, including types and rough quantities.
  - 2. Landfill Options: The name of the landfills where trash and building debris will be disposed of, the applicable landfill tipping fees, and the projected cost of disposing of all Project waste in the landfills.
  - 3. Landfill Certification: Contractor's statement of verification that landfills proposed for use are licensed for types of waste to be deposited and have sufficient capacity to receive waste from this project.

- 4. Alternatives to Landfilling: A list of each material proposed to be salvaged or recycled during the course of the Project. Include the following and any additional items proposed:
  - a. Cardboard and paper products.
  - b. Clean dimensional wood.
  - c. Beverage containers.
  - d. Concrete.
  - e. Slurry wall materials.
  - f. Bricks and masonry.
  - g. Asphalt.
  - h. Metals from framing, banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
  - i. Mechanical and electrical equipment.
  - j. Building components which can be removed relatively intact from existing construction.
  - k. Packaging materials, including cardboard, boxes, plastic sheet and film, polystyrene packaging, wood crates, plastic pails.
  - I. Glass.
  - m. Scraps from new gypsum wall board.
  - n. Carpet and pad.
  - o. Acoustical ceiling panels.
  - p. Plastics.
- 5. Meetings: A description of the regular meetings to be held to address waste management.
- 6. Materials Handling Procedures: A description of the means by which any waste materials identified above will be protected from contamination, and a description of the means to be employed in recycling the above materials consistent with requirements for acceptance by designated facilities.
- 7. Transportation: A description of the means of transportation of the recyclable materials (whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site) and destination of materials.
- B. Waste Management Progress Reports: Concurrent with each Application for Payment, submit a written Waste Management Progress Report in the same format as required for Final Report.
- C. Waste Management Final Report: Prior to Substantial Completion, submit a written Waste Management Final Report summarizing the types and quantities of materials recycled and disposed of under the Waste Management Plan. Include the name and location of disposal facilities.
  - 1. Material category.
  - 2. Generation point of waste.
  - 3. Total quantity of waste, by weight.
- D. Other Submittals:
  - 1. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
  - 2. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.

- 3. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, and/or receipts.
- 4. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, and/or receipts.
- 5. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- 6. Bills of lading, manifests, and/or certificates of recycling and/or recovery of Universal Wastes as defined by EPA and Maine Department of Environmental Protection (MDEP) regulations.

# 1.5 CONTRACTORS

- A. Contractor may subcontract work of this Section to a sub-contractor specializing in recycling and salvaging of construction waste.
- B. Gypsum Wallboard Recycling: New, paper-faced gypsum wallboard scrap (cuts from construction not demolition waste) generated at project shall be recycled. Keep scrap dry.
- C. Acoustical Ceiling Panel Recycling: Demolition and construction waste pulpable mineral fiber ceiling panels may be recycled by Armstrong World Industries and US Gypsum. Contact Armstrong at 1-877-ARMSTRONG (1-877-276-7876) or www.armstrong.com or contact USG at 1-800-USG-4YOU or www.usg.com, to coordinate recycling efforts, apply for product approvals, and receive reclamation procedure requirements.
- D. Carpet Recycling: Demolition and construction waste carpet and carpet padding may be recycled by Carpet America Recovery Effort (CARE). Visit www.carpetrecovery.org to locate carpet reclaimers in local project area and reclamation procedure requirements.

PART 2 - PRODUCTS [Not Used]

# PART 3 - EXECUTION

- 3.1 PLAN IMPLEMENTATION
  - A. General: Implement Waste Management Plan as approved by the Architect. Provide containers, storage, signage, transportation, and other items as required to implement WMP for the entire duration of the Contract.
- 3.2 WASTE MANAGEMENT PLAN IMPLEMENTATION
  - A. Manager: The Contractor shall designate an on-site person responsible for instructing workers and overseeing and documenting results of the Waste Management Plan for the Project.
  - B. Distribution: The Contractor shall distribute copies of the Waste Management Plan to the Job Site Foreman, each Subcontractor, the Owner and the Architect.

- C. Instruction: The Contractor shall provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.
- D. Separation Facilities: The Contractor shall lay out and label a specific area to facilitate separation of materials for recycling, salvage, reuse, and return. Recycling and waste bin areas are to be kept neat and clean and clearly marked in order to avoid contamination of materials. Location shall be acceptable to the Architect.
- E. Hazardous Wastes: Any unforeseen hazardous wastes shall be separated, stored, and disposed of according to local regulations and as directed by the Owner.

END OF SECTION

# SECTION 028210 - ASBESTOS ABATEMENT

# PART 1 - GENERAL

- 1.1 GENERAL PROVISIONS
  - A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 GENERAL REQUIREMENTS and DIVISION 02 EXISTING CONDITIONS which are hereby made a part of this Section of the Specifications.
- 1.2 SUMMARY
  - A. This Section includes furnishing labor, materials, equipment, supplies, and performing all operations necessary to complete the removal of asbestos-containing materials (ACM) by a qualified ASBESTOS ABATEMENT SUBCONTRACTOR with competent persons willing, trained, knowledgeable and qualified in the techniques of asbestos abatement, handling and disposal of ACM and asbestos-contaminated materials and the subsequent cleaning of contaminated areas, and complying with all applicable federal, state, and local regulations in accordance with the attached drawings and these specifications.
- 1.3 SCOPE OF WORK
  - A. Remove identified and similar ACM impacted by the planned phased renovation work at Curtis Hall located on the Maine Maritime Academy (MMA) campus in Castine, Maine as identified in Figures H100, H101, H102, H103 and H104. These figures provide general coordination of information only, are schematic in nature, and do not identify individual items to be removed as required by the phased renovation project. ASBESTOS ABATEMENT SUBCONTRACTOR is responsible for confirming actual quantities of ACM and non-ACM building materials to be removed under this Contract.
  - B. The work to be performed under this Contract consists of the removal and disposal of ACM present on the interior and exterior of the building impacted by the planned phased renovation of the building as described in Section 1.4 Summary of Materials, **Table 1**: Summary of Identified Asbestos Containing Materials (ACM) and Estimated Quantities, Curtis Hall, Maine Maritime Academy, Castine, Maine. The ASBESTOS ABATEMENT SUBCONTRACTOR is responsible for identifying and confirming the actual quantities of ACM to be removed as part of the phased renovations prior to submission of a proposal or bid.
  - C. The ASBESTOS ABATEMENT SUBCONTRACTOR shall be responsible for the preparation of a site-specific asbestos abatement project design and work plan for each work area. An Asbestos Abatement Design Consultant licensed by the Maine Department of Environmental Protection (MDEP) will prepare the design. The site-specific asbestos abatement project design and work plan will be signed by the licensed Asbestos Abatement Design Consultant prior to approval to proceed with work.
  - *D.* The ASBESTOS ABATEMENT SUBCONTRACTOR shall be responsible for the submission of all appropriate Federal, State and local notifications and fees.
  - *E.* The ASBESTOS ABATEMENT SUBCONTRACTOR shall be responsible for providing a MDEP licensed independent air monitor for all visual evaluations and air clearances.

The ASBESTOS ABATEMENT SUBCONTRACTOR shall be responsible for conducting personal exposure monitoring on their employees during abatement activities.

- 1.4 SUMMARY OF MATERIALS
  - A. See **TABLE 1**: Summary of Identified Asbestos Containing Materials (ACM) and Estimated Quantities, Curtis Hall, Maine Maritime Academy, Castine, Maine.



# TABLE 1 | SUMMARY OF IDENTIFIED ASBESTOS CONTAINING MATERIALS (ACM) AND ESTIMATED QUANTITIES CURTIS HALL, MAINE MARITIME ACADEMY, CASTINE, MAINE

| Room<br>Section/Number     | Sample #:            | Pipe Insulation<br>and Associated<br>Mud Pipe Fittings<br>(LF) | Tank Insulation<br>(SF) | Mud Pipe<br>Fittings Insulation<br>on Fiberglass-<br>insulated lines<br>(EA) | Gasket on<br>stored<br>equipment (SF) | Asphalt Vapor<br>Barrier (SF) | Floor Tile<br>Adhesive<br>beneath Non-<br>ACM Floor Tile<br>(SF) | Floor Tile and<br>associated ACM<br>adhesive (SF) | Exterior Caulk<br>Associated with<br>Window Frames<br>(EA) | Comment                         |
|----------------------------|----------------------|--|-------------------------|--|---------------------------------------|-------------------------------|--|---|--|---------------------------------|
|                            |                      |  |                         |  | GROU                                  | GROUND FLOOR                  |  |   |  |                                 |
|                            | PH1-002C<br>PH1-003A | 30   |                         |  |                                       |                               |  |   |  |                                 |
| Boiler Room -<br>Mezzanine | PH1-004A             |  |                         | 25   |                                       |                               |  |   |  |                                 |
|                            | PH1-005A             |  | 50                      |  |                                       |                               |  |   |  |                                 |
| Boiler Room                | PH1-004A             |  |                         | 26   |                                       |                               |  |   |  |                                 |
| Electrical Room            | PH1-004A             |  |                         | 7  |                                       |                               |  |   |  |                                 |
|                            | PH1-004A             |  |                         | 10   |                                       |                               |  |   |  |                                 |
|                            | PH2-043A             |  |                         |  |                                       | 40                            |  |   |  |                                 |
| Armory                     | PH2-043A             |  |                         |  |                                       | 90                            |  |   |  |                                 |
| (FCG) Come                 | PH2-043A             |  |                         |  |                                       | 180                           |  |   |  |                                 |
| kirie kange (b34) -        | PH2-041A             |  |                         |  | 2                                     |                               |  |   |  |                                 |
| Hallway (B10)              | PH1-012A             |  |                         | 4  |                                       |                               |  |   |  | Above ceiling tiles             |
| The Bilge (G1)             | PH4-047A             |  |                         |  |                                       |                               | 625  |   |  |                                 |
| Kiłchen (G2)               | PH4-047A             |  |                         |  |                                       |                               | 55   |   |  |                                 |
| Men's Room (G4)            | A210-IH9             |  |                         | 20   |                                       |                               |  |   |  | Chase inaccessible              |
| Women (G5)                 | PH1-012A             |  |                         | 5  |                                       |                               |  |   |  | located within a pipe enclosure |
| Bookstore Storage<br>(G17) | PH1-012A             |  |                         | 10   |                                       |                               |  |   |  |                                 |
| Bookstore (G106)           | PH1-012A             |  |                         | 7  |                                       |                               |  |   |  |                                 |
|                            |                      |  |                         |  | FIRS                                  | FIRST FLOOR                   |  |   |  |                                 |
| Tele Equip TE001           | PH1-016A             |  |                         |  |                                       |                               |  | 60  |  |                                 |
| Storage S111               | PH1-016A             |  |                         |  |                                       |                               |  | 50  |  |                                 |
| Conf Dept Office<br>(F115) | PH1-016A             |  |                         |  |                                       |                               |  | 180   |  |                                 |
|                            |                      |  |                         |  | 4                                     |                               |  |   |  |                                 |

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# TABLE 1 | SUMMARY OF IDENTIFIED ASBESTOS CONTAINING MATERIALS (ACM) AND ESTIMATED QUANTITIES CURTIS HALL, MAINE MARITIME ACADEMY, CASTINE, MAINE

| Caulk<br>ed with<br>rames<br>)  |                   |                         |              |          |                              |          |                         |                         |          |             |      |      |                   |              |                   |          |          |         |
|---|-------------------|-------------------------|--------------|----------|------------------------------|----------|-------------------------|-------------------------|----------|-------------|------|------|-------------------|--------------|-------------------|----------|----------|---------|
| Floor Tile and associated ACM Window Frames adhesive (SF) (EA)                      |                   |                         |              |          |                              |          |                         |                         |          |             |      |      |                   |              |                   |          | 475      | 290 475 |
| Floor Tile<br>Adhesive Floor<br>beneath Non- associc<br>ACM Floor Tile adhe<br>(SF) |                   |                         |              |          |                              |          |                         |                         |          |             |      |      |                   |              |                   |          |          | ARD ARD |
| Asphalt Vapor be<br>Barrier (SF) A  |                   |                         | SECOND FLOOR |          |                              |          |                         |                         |          | THIRD FLOOR |      |      |                   | FOURTH FLOOR |                   | EXTERIOR |          | 280     |
| Gasket on<br>stored<br>equipment (SF)   |                   |                         | SECO         |          |                              |          |                         |                         |          | THIR        |      |      |                   | FOUR         |                   | EX       |          | 6       |
| Mud Pipe<br>Fittings Insulation<br>on Fiberglass-<br>insulated lines<br>(EA)        | 15                | 4                       |              | 2        | 4                            | e        | 2                       | 2                       | 2        |             | 4    | 1    | 4                 |              | 2                 |          |          | 159     |
| Tank Insulation<br>(SF)   |                   |                         |              |          |                              |          |                         |                         |          |             |      |      |                   |              |                   |          |          | 50      |
| Pipe Insulation<br>and Associated<br>Mud Pipe Fittings<br>(LF)                      |                   |                         |              |          |                              |          |                         |                         |          |             |      |      |                   |              |                   |          |          | 30      |
| Sample #:   | PH1-012A          | PH1-012A                |              | PH1-012A | PH1-012A                     | PH1-012A | PH1-012A                | PH1-012A                | PH1-012A |             |      |      |                   |              |                   |          | PH1-030A |         |
| Room<br>Section/Number  | Hallway near F107 | Anchor Lounge<br>(R101) |              | H203     | Hallway outside<br>T235/T236 | 1202     | Hallway outside<br>T204 | Hallway outside<br>S203 | S207     |             | 1319 | H303 | Hall outside T338 |              | Hall outside L404 |          | Exterior |         |

# 1.5 RELATED REQUIREMENTS

- A. Drawings, Project Manual, and general provisions of the Contract, including, without limitation, General Conditions of the Contract, additional General Conditions of the Contract, and Division 00 and Division 01 specification sections, apply to this Section.
- *B.* 024100 Demolition
- 1.6 REFERENCES
  - *A.* Applicable Code of Federal Regulations (CFR):
    - 1. 29 CFR 1910.1001 General Industry Standard for Asbestos
    - 2. 29 CFR 1926.1101 Construction Standard for Asbestos
    - 3. 29 CFR 1910.134 General Industry Standard for Respiratory Protection
    - 4. 29 CFR 1910.1200 Hazard Communication.
    - 5. 40 CFR 61 Subpart M National Emission Standards for Hazardous Air Pollutants Asbestos
  - B. Applicable Code of Maine Rules (C.M.R.):
    - 1. 06-096 C.M.R.Ch. 425 Asbestos Management Regulations
    - 2. 06-096 C.M.R.Ch. 411 Non-Hazardous Waste Transporter Licensing Regulations
    - 3. 06-096 C.M.R.Ch. 405 Solid Waste Management Regulations
- 1.7 SUBMITTALS
  - A. Submittals will be received by the OWNER in accordance with this section before material or equipment is purchased or work is performed. The ASBESTOS ABATEMENT SUBCONTRACTOR shall submit to the OWNER, for review, two copies of the information required herein. The adequacy and accuracy of submittals and their compliance with contract documents are the responsibility of the ASBESTOS ABATEMENT SUBCONTRACTOR. All reviewing actions taken by the OWNER will in no way relieve the ASBESTOS ABATEMENT SUBCONTRACTOR ABATEMENT SUBCONTRACTOR of quality control requirements.
  - B. General

The ASBESTOS ABATEMENT SUBCONTRACTOR shall submit:

- 1. A list of proposed subcontractors with their addresses, specialties, and qualifications.
- 2. Certificate(s) of Insurance indicating coverage for asbestos abatement work.
- *C.* Work Practices and Procedures:
  - 1. Design and Work Plan: The ASBESTOS ABATEMENT SUBCONTRACTOR shall be responsible for the preparation of a site-specific asbestos abatement project design and work plan for each work area. An Asbestos Abatement Design Consultant licensed by the MDEP will prepare and sign the design.

The ASBESTOS ABATEMENT SUBCONTRACTOR shall submit a written work plan and sketches of the work procedures to be used in the removal, disposal and replacement of materials. The abatement plan will, at a minimum, include location of asbestos control area, decontamination area, equipment decontamination enclosure, interface of trades involved in the construction, sequencing of asbestos-related work, disposal plan, type of wetting agent and sealant to be used, site specific air monitoring plan, personal air monitoring program and a description of the method to be employed to reduce fiber releases. For each work area, the abatement plan will show the point of controlled access to the building for transporting ACM from the regulated area to the exterior of the building. The abatement plan will show auxiliary make-up air points, location of HEPA exhaust ventilation units, location of HEPA exhaust, and location of pressure differential monitors.

- 2. Project Log: The ASBESTOS ABATEMENT SUBCONTRACTOR shall maintain a Project Log throughout the project. The log will contain notes concerning accidents that may happen and deviation from standard work procedures and project information. At project completion, the original log will be submitted to the OWNER.
- 3. Waste Disposal: The ASBESTOS ABATEMENT SUBCONTRACTOR shall identify the proposed waste disposal landfill for the project and provide a copy of the state approval certification Permits. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide a list of all permits, licenses, or manifests to be applied for, including notification of the MDEP.
- 4. The ASBESTOS ABATEMENT SUBCONTRACTOR shall prepare, for signature by the OWNER, an MDEP *Project Monitoring Disclosure Form.*
- 5. The ASBESTOS ABATEMENT SUBCONTRACTOR shall prepare for signature by the OWNER, an MDEP Asbestos Consultant Independent Business Relationship Disclosure Form.
- *D.* Product and Equipment Data
  - 1. Submit manufacturers' literature, catalog cuts, and product data sheets for products and equipment to be used in the asbestos abatement project. Attach Safety Data Sheets (SDS) to Product Data Sheets.
  - 2. Submit SDS for products containing chemicals the ASBESTOS ABATEMENT SUBCONTRACTOR may be using on the project.
  - 3. The ASBESTOS ABATEMENT SUBCONTRACTOR shall submit to the CONTRACTOR AND OWNER, two copies of the SDS attached to the Product Data sheet for new products brought on site for which an SDS has not been previously submitted. These submissions do not relieve the ASBESTOS ABATEMENT SUBCONTRACTOR of the OSHA requirements or ASBESTOS ABATEMENT SUBCONTRACTOR responsibilities with reference to the SDS nor does it relieve the ASBESTOS ABATEMENT SUBCONTRACTOR of responsibility for the subsequent proper use of the product.
- *E.* Personnel, Training, Medical, and Respiratory Fit Test Documentation

The ASBESTOS ABATEMENT SUBCONTRACTOR shall submit the following:

- 1. Experience Summary: Submit name and experience summary of project supervisors and foremen.
- 2. Personnel: Submit copies of Personnel Training Certificates, Medical Examinations, Medical Questionnaires, and Respirator Fit Tests:
  - a. Summary Sheet: Submit a summary sheet of employees, listed in alphabetical order, to include name, social security number, classification, MDEP certificate number, and dates of training, medical examinations, medical questionnaires and respirator fit tests.

- F. ASBESTOS ABATEMENT SUBCONTRACTOR'S License: Submit a copy of the ASBESTOS ABATEMENT SUBCONTRACTOR'S MDEP license and the name of the ASBESTOS ABATEMENT SUBCONTRACTOR's project Contract Representative.
- *G.* Independent Asbestos Abatement Project Monitor (APM): Submit the name, associated firm and copy of MDEP license of the independent APM.

# 1.8 QUALITY ASSURANCE

- *A.* Job Site References: The ASBESTOS ABATEMENT SUBCONTRACTOR shall have on site, at all times, at least one copy of each of the following:
  - 1. Project Manual including Drawings and Specifications.
  - 2. Guidance for Controlling Asbestos Containing Materials in Building (EPA 560/5-85-024), June 1985.
  - 3. Asbestos Waste Management Guidance (EPA/530-SW-85-007) May 1985.
  - 4. A Guide to Respiratory Protection for the Asbestos Abatement Industry (EPA-560-OPTS-86-001), September 1986.
  - 5. OSHA Workplace Safety Standards, (29 CFR Parts 1910 and 1926).
  - 6. NESHAPs Asbestos Regulations (40 CFR Part 61 Subpart M).
  - 7. MDEP Asbestos Management Regulations (06-096 C.M.R. Chapter 425 (2011)).
- *B.* Safety Compliance: The ASBESTOS ABATEMENT SUBCONTRACTOR shall, in addition to detailed requirements of this specification:
  - 1. Comply with laws, ordinances, rules and regulations of federal, state, regional and local authorities regarding handling, storing, transporting ,and disposing of asbestos waste materials.
  - 2. Comply with the applicable requirements of the current issue of 29 CFR 1910.1001; 40 CFR 61, Subparts M and 29 CFR 1926.1101.
  - 3. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting work. Where the requirements of this specification and referenced documents vary, the most stringent requirement will apply.
- C. Respirator Program: The ASBESTOS ABATEMENT SUBCONTRACTOR shall establish a respirator program as required by 29 CFR 1910.1001 and 1926.1101. This program will comply with all paragraphs of 29 CFR 1910.134.

# 1.9 AUTHORITY TO STOP WORK

- A. The OWNER has the authority to stop the abatement work at any time that conditions are not within the specifications and applicable regulations. The stoppage of work will continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the OWNER. The standby time required for the ASBESTOS ABATEMENT SUBCONTRACTOR's personnel and the APM to resolve violations will be at the ASBESTOS ABATEMENT SUBCONTRACTOR's expense.
- *B.* Stop-Work Airborne Fiber Levels will be as follows:
  - 1. Inside Contained Work Area (Removal): 0.5 f/cc (with wet methods).
  - 2. Outside Contained Work Area: 0.01 f/cc as measured in clean room and/or the HEPA exhaust.

- *C.* Stop work orders will be issued for, but not be limited, to the following:
  - 1. Excessive airborne fiber concentrations inside and/or outside the work area.
  - 2. Breaks in containment barriers.
  - 3. Loss of negative air pressure (0.02 inches of water minimum negative pressure to be maintained).
  - 4. Failure of workers to wear appropriate respiratory protection.

# PART 2 - PRODUCTS

- 2.1 MATERIALS
  - A. The ASBESTOS ABATEMENT SUBCONTRACTOR shall furnish materials as necessary to perform the work specified herein and to comply with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011).
- 2.2 GENERAL EQUIPMENT TO BE PROVIDED BY ASBESTOS ABATEMENT SUBCONTRACTOR
  - A. The ASBESTOS ABATEMENT SUBCONTRACTOR shall furnish equipment, including personnel protective equipment, as necessary to perform the work specified herein and to comply with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011).
  - B. Workers and authorized visitors exposed to airborne concentrations of asbestos fibers will be provided with disposable, protective, whole-body clothing, head coverings, gloves, and foot coverings, and use of tape. Protective clothing will be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing. Goggles will be provided in accordance with ANSI Z87.1 to personnel engaging in certain asbestos operations when a full-face respirator is not required.
  - C. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide connections to existing water and electrical service provided by the OWNER as necessary to perform asbestos abatement related activities.

# 2.3 ENCAPSULANTS

- A. Encapsulants will not be used on this project. Should it be determined that encapsulation is necessary, a spray type encapsulant will be used as a lockdown of exposed surfaces and piping, only if previously approved by the OWNER. Any encapsulant used must be able to withstand heat and have the capacity to be applied pre-heated.
- 2.4 ELECTRICAL
  - A. Electrical installations or modifications (including de-energization for the purposes of demolition of electrical components) are the responsibility of the ASBESTOS ABATEMENT SUBCONTRACTOR. The ASBESTOS ABATEMENT SUBCONTRACTOR AND OWNER.
  - *B.* Ground default circuit interrupters (GFCI) will be provided for all electrical equipment to be installed outside the work area so that there is no live GFCI-protected electrical wiring inside the work area. The ASBESTOS ABATEMENT SUBCONTRACTOR shall furnish and install a portable GFCI Power Supply Board and receptacles including the following:

- 1. All circuits individually GFCI-protected.
- 2. Weatherproof enclosure NEMA 3 (rain-tight) with receptacle covers.
- 3. Construction durable, 16-gauge steel construction.
- 4. At least two 20-amp circuits (for APM).
- 5. Main circuit breaker.
- 6. Components UL listed.
- *C.* The Decontamination Facility will be furnished with a power supply board with one 20amp circuit for the APM.

# PART 3 - EXECUTION

- 3.1 WORKER PROTECTION
  - A. General:
    - 1. Asbestos abatement work will be performed in accordance with current OSHA standards 29 CFR 1910.1001, 29 CFR 1926.1101, and current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011), and as specified herein.
    - 2. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide all authorized visitors with protective clothing, headgear, eye protection, footwear, and hard hats as in the procedures described herein and afford them the use of all facilities to hold them free of contamination of asbestos fibers.
    - 3. All authorized visitors shall be responsible for providing their own respirators with current copies of their medical clearance and fit test records prior to being allowed to enter the containment.
    - 4. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide the decontamination and work procedures to be followed by workers, as well as the results of the personal air monitoring. This information must be posted outside of the clean room.
  - *B.* Respiratory Protection:
    - 1. Respiratory protection will be worn by all persons potentially exposed to asbestos from the initiation of the asbestos abatement project until all areas have been given clearance. Clearance will be obtained by visual observation and air monitoring conducted by the APM.
    - 2. Personal samples will be collected within the worker's breathing zone. Personal sampling will be the responsibility of the ASBESTOS ABATEMENT SUBCONTRACTOR. Personal sampling results will be available on site no later than 24 hours after sampling.
    - 3. The filters provided for respirators used during this work will be NIOSH approved for asbestos fibers.
  - *C.* Protective Clothing:
    - 1. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide to all workers, foreman and superintendents, protective disposable clothing consisting of full body coveralls, head covers, gloves and 18-inch-high boot-type covers, and reusable footwear.
    - 2. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide eye protection and hard hats as required by job conditions and safety regulations.

- 3. Reusable footwear, hard hats, and eye protection devices will be left in the "contaminated equipment room" until the end of the asbestos abatement work.
- 4. Upon completion of asbestos abatement, the footwear will be disposed of as contaminated waste or cleaned thoroughly inside and out using soap and water before removing it from the work area or from the equipment and access area.
- 5. All disposable protective clothing will be discarded and disposed of as asbestos waste when the wearer exits from the workspace to the outside through the decontamination facilities.
- 6. The color of the disposable clothing worn outside the work area will be a different color than the disposable clothing worn inside the work area.

# 3.2 DECONTAMINATION FACILITY

- A. For each abatement area the ASBESTOS ABATEMENT SUBCONTRACTOR shall provide decontamination facilities located in an area established in the Asbestos Abatement Design.
- *B.* The decontamination facility will be constructed and maintained as specified herein and in compliance with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011)
- 3.3 MAINTENANCE OF THE WORK AREA
  - A. The ASBESTOS ABATEMENT SUBCONTRACTOR shall maintain the work area as specified herein and in compliance with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011).
- 3.4 ASBESTOS CONTROL AREA CONSTRUCTION
  - A. The ASBESTOS ABATEMENT SUBCONTRACTOR shall prepare and maintain the asbestos control area (e.g., the Containment Area) as necessary to perform the work specified herein and in compliance with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011).
  - *B.* The ASBESTOS ABATEMENT SUBCONTRACTOR shall prepare and maintain the asbestos control area (e.g., the Containment Area) as necessary to perform the work specified herein and in compliance with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011).

# 3.5 ACM ABATEMENT METHODS

- A. ACM Removal:
  - 1. The ASBESTOS ABATEMENT SUBCONTRACTOR shall conduct ACM removal as specified herein and in compliance with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011).
  - 2. The ASBESTOS ABATEMENT SUBCONTRACTOR shall be responsible for obtaining work practice variances from MDEP as necessary to complete the work.

# 3.6 FINAL CLEANUP AND INSPECTION PROCEDURE

A. Each work area will be evaluated for completion following the removal of visible residue from surfaces of equipment, floors and walls, and the removal of containers and equipment. Waste containers (except those containers necessary for waste from final

cleanup) will be packed, cleaned, and removed from the work area prior to final cleanup and monitoring. This evaluation will be completed by the ASBESTOS ABATEMENT SUBCONTRACTOR's Supervisor, subsequent to the completion of successful asbestos abatement clearance inspection, sampling, and analysis for each work area.

Visual evaluation protocol will include:

- 1. Entering the work area where the abatement/clean-up/remediation activity was performed.
- 2. Inspection of the surfaces from which ACM and associated residue was removed.
- 3. Examination of the permanent features within the work area such as walls, floors, ceilings, conduits, pipes, tanks, etc., and attempting to determine whether residual materials or visible debris is present.
- 4. Examination of the decontamination and waste-load out facilities and observe whether residual material or visible debris is present. The waste will be evaluated to determine proper containerization and labeling.
- *B.* The ASBESTOS ABATEMENT SUBCONTRACTOR shall re-clean if necessary and the area re-inspected.
- C. The ASBESTOS ABATEMENT SUBCONTRACTOR is responsible for providing final asbestos abatement clearance inspection, sampling, and analysis for each work area. Clearance inspections, sampling, and analysis will be performed in accordance with MDEP regulations by an independent, MDEP licensed APM.
- *D.* After an area passes the clearance inspection, sampling, and analysis, the work area may be deregulated.

# 3.7 WASTE DISPOSAL

- A. All waste material shall be properly handled, wetted, containerized, and disposed of in accordance with current MDEP Asbestos Management Regulations, 06-096 C.M.R. Chapter 425 (2011). The ASBESTOS ABATEMENT SUBCONTRACTOR shall count or measure the volume of each filled container leaving the work area and will maintain a written record of such.
- *B.* Warning labels, having waterproof print and permanent adhesive, will be affixed to the sides of all waste bags or transfer containers. Warning labels will be conspicuous and legible and in accordance with 29 CFR 1926.1101.
- *C.* Removal of waste (both asbestos and non-asbestos wastes) from the work area will be completed prior to the end of each work shift. Project related waste will not be allowed to accumulate in the work area.
- D. Once a dumpster or waste container is full, the ASBESTOS ABATEMENT SUBCONTRACTOR shall arrange for transportation to the landfill, or to a predesignated and approved off-site temporary location. Waste will not remain on-site longer than five days following completion of asbestos abatement activities.
- *E.* Waste Transportation and Disposal Regulations:
  - 1. It is the responsibility of the ASBESTOS ABATEMENT SUBCONTRACTOR to determine and ensure compliance with the current waste handling regulations applicable to the work site and the current regulations for waste transportation to and

disposal at each ultimate landfill. The ASBESTOS ABATEMENT SUBCONTRACTOR shall comply fully with these regulations and with all U.S. Department of Transportation (DOT) and U.S. Environmental Protection Agency (USEPA) requirements.

- 2. If required, the ASBESTOS ABATEMENT SUBCONTRACTOR (or Subcontractor), at no additional cost, will maintain a valid hazardous waste transporter's permit and identification number, and will document and fully comply with any hazardous waste manifesting requirements.
- 3. The ASBESTOS ABATEMENT SUBCONTRACTOR shall provide legal transportation of this waste to the ultimate disposal landfill and will have the waste hauler and landfill owner complete all other required manifests, dump slips, or other forms. The completed original of the Waste Shipment Record and copies of the other forms will be sent to the OWNER within five calendar days.
- 4. Waste may be transported to and temporarily stored at a pre-approved off-site storage area owned by the ASBESTOS ABATEMENT SUBCONTRACTOR, but it must ultimately be disposed of at the specified landfill before any payments are made.
- F. Waste Disposal Fees: All contaminated waste handling costs, such as waste packaging, on-site/off-site storing and handling, transport and disposal, permitting, recordkeeping, and non-contaminated waste handling, must be included in the ASBESTOS ABATEMENT SUBCONTRACTOR'S proposal or bid as applicable to removal of asbestos materials and/or performance of the related abatement activities.

END OF SECTION

# SECTION 211000

# FIRE-SUPPRESSION SPRINKLER SYSTEM

# PART 1 - GENERAL

# 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

# 1.2 SUMMARY

- A. The fire protection system scope shall provide extensions and alterations to the existing automatic sprinkler system as required to facilitate the renovations. The revisions and alterations shall include but not necessarily be limited to the following:
  - 1. Revisions to the existing head layout at the exterior soffit area to facilitate removal of the existing soffit and installation of a new insulated soffit.
  - 2. Revisions to the sprinkler routing and head placement as required to facilitate the addition of interior soffits to accommodate duct routing, refer to Fire Protection and Architectural drawings for soffit locations.
  - 3. Extend sprinkler coverage within the former Rifle Range (currently Housekeeping Storage) to provide complete coverage throughout the space.
  - 4. Add supervised valves with tamper switches as noted on the Fire Protection Drawings to facilitate zoned sprinkler shutdown in construction areas while maintaining full sprinkler protection throughout the occupied sections of the facility.
- B. All work shall be completed in a manner that maintains complete protection for the facility, in accordance with NFPA 13, local, and State requirements.
- C. Sprinkler coverage shall be maintained at owner occupied sections of the facility at all times, except for limited shutdowns as strictly scheduled with Maine Maritime Academy, limited to one half of one floor at a time, as required to complete alterations within the construction area as specified herein.
- D. This Section includes fire-suppression sprinklers, piping, and equipment.
- E. The Sprinkler Contractor shall place the sprinkler system in service and hand over the sprinkler system to the General Contractor for care and maintenance.
- F. Performance and Design Criteria: Provide products and systems complying with specific performance and design criteria indicated.

# 1.3 SYSTEM PERFORMANCE REQUIREMENTS

- A. Design sprinklers and obtain approval from authorities having jurisdiction. The design of the automatic sprinkler system shall be complete with all necessary accessories for proper operation.
- B. The system shall be hydraulically calculated in accordance with all provisions of the Contract Documents and any authority having jurisdiction.
- C. The contract documents do not include a fire pump. Provide over-sized piping as required to meet required system hydraulics. Contractor shall review the civil plans, the existing site and existing fire flow data. If the contractor or authority with jurisdiction determines that a fire pump is required: Provide in accordance with NFPA 20, "Stationary Pumps for Fire Protection," for fire pumps, drivers, controllers, accessories, and their installation.
- D. Design sprinkler piping according to the following and obtain approval from authorities having jurisdiction:
  - 1. Include a 5 percent margin of safety for available water flow and pressure.
  - 2. Include losses through water-service piping, valves, and backflow preventers.
- E. Sprinkler Occupancy Hazard Classifications:
  - 1. Light Hazard:
    - a. Office and Public Areas
    - b. Corridors
    - c. Residential living areas
  - 2. Ordinary Hazard, Group 1:
    - a. General Storage Areas
    - b. Mechanical Equipment Rooms
    - c. Building Service Areas.
    - d. Electrical Equipment Rooms
    - e. Laundry areas
- F. Minimum Density for Automatic-Sprinkler Piping Design shall be in accordance with NFPA 13. Maximum Protection Area per Sprinkler shall be in accordance with NFPA 13.

# 1.4 GENERAL REQUIREMENTS

- A. Components and Installation: Capable of producing piping systems with 175-psig minimum working-pressure rating, unless otherwise indicated.
- B. Seismic Performance: If required by the authority with jurisdiction, fire-suppression piping shall be capable of withstanding the effects of earthquake motions determined according to NFPA 13.
- C. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with fire stop materials. Refer to Division 7 for materials. Seal all penetrations through fire-or smoke-rated wall, partition, ceiling, or roof

assemblies with firestopping system. Refer to Architectural plans for location of rated assemblies.

- D. Contractor shall obtain and pay for required permits.
- E. Any hot work operations that are performed during this project shall be permitted by use of the FM Global Hot Work Permit System. The FM Global Hot Work Permit System shall be used to supervise all hot work operations (cutting, welding, brazing, grinding, soldering, etc.,) performed outside of any designated welding areas. A written policy statement shall specify who has the authority to issue permits on all shifts. In addition, a constant fire watch shall be continued for 1 hr. after work is completed and the area shall be monitored for an additional 3 hrs. after that.

# 1.5 SUBMITTALS

- A. Shop Drawings: Submit working plans, prepared according to NFPA 13, and hydraulic calculations with cross reference to applicable drawings, water supply data, and equipment schedule with ratings for the system to the Owner's Representative, Insurance Underwriter, and other authorities having jurisdiction.
- B. Product Data: Catalog sheets, specifications, and installation instructions. Indicate UL or FM approval for each product. Include the following additional information:
  - 1. Pipe and fitting materials and methods of joining for sprinkler piping.
  - 2. Pipe hangers and supports.
  - 3. Piping seismic restraints.
  - 4. Valves, including specialty valves, accessories, and devices.
  - 5. Alarm devices. Include electrical data.
  - 6. Electrical Devices: Complete description of intended use, wiring diagrams, data plate information and, in the case of switching devices, whether normally on or normally off. Include motor test data.
  - 7. Mechanical Devices: Complete description of intended use, including normal operating capacities and working pressures.
  - 8. Enclosures: Dimensions, materials, gages of metals; type of door hinges and locks, and methods of securing the enclosure members to the building construction.
  - 9. Hose Threads: Verify that hose threads on fire department connections match threads on equipment used by the local or servicing fire department.
- C. Design Data: The portions of the sprinkler system not sized on the Contract Drawings shall be sized in accordance with NFPA requirements for Hydraulically Designed Systems. Submit drawings and hydraulic calculations for approval.
- D. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit three copies of a statement, signed and sealed by the responsible sprinkler system design professional. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Certification: Submit Contractor's NICET certification and number or PE license number.
- E. Field Test Reports and Certificates: Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping" and "Contractor's Material and Test Certificate for Underground Piping."
- F. Maintenance Data: For each type of sprinkler specialty to include in maintenance manuals specified in Division 1.

# 1.6 QUALITY ASSURANCE

- A. Sprinkler Contractor
  - 1. Installer Qualifications: An experienced installer who has designed and installed firesuppression piping similar to that indicated for this Project and obtained design approval and inspection approval from authorities having jurisdiction.
  - 2. Engineering Responsibility: Preparation of working plans, calculations, and field test reports by a qualified sprinkler designer. Sprinkler designer shall be legally qualified and licensed to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of fire-suppression piping that are similar to those indicated for this Project in material, design, and extent.
  - 3. Contractor shall be a licensed fire sprinkler contractor.
- B. Manufacturer Qualifications:
  - 1. Firms whose equipment, specialties, and accessories are listed by product name and manufacturer in UL's "Fire Protection Equipment Directory" and FM's "Fire Protection Approval Guide" and that comply with other requirements indicated.
  - 2. Sprinkler Components: Listing/approval stamp, label, or other marking by a testing agency acceptable to authorities having jurisdiction.
  - 3. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
  - 4. Factory Mutual Engineering Corporation (FM) Approval Guide
- C. NFPA Requirements: Year edition per authority of jurisdiction.
  - 1. NFPA #1: Fire Prevention Code
  - 2. NFPA #13: Standard for the Installation of Sprinkler Systems
  - 3. NFPA #101: Life Safety Code

# 1.7 COORDINATION

- A. Arrange for pipe spaces, chases, slots, and openings in building structure during progress of construction, to allow for fire-suppression installations.
- B. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.
- C. Coordinate requirements for access panels and doors for fire-suppression items requiring access that are concealed behind finished surfaces. Access panels and doors are specified in Division 8.
- D. Coordinate sprinkler head layout with all other trades.

# 1.8 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Sprinkler Cabinets: Finished, wall-mounting steel cabinet and hinged cover, with space for a minimum of six spare sprinklers plus sprinkler wrench. Include the number of sprinklers required by

NFPA 13 and wrench for sprinklers. Include separate cabinet with sprinklers and wrench for each type of sprinkler on Project.

# PART 2 - PRODUCTS

# 2.1 PIPING

- A. Pipe and fittings shall conform to the requirements of NFPA 13. Pipe shall be listed by UL and be FM approved, and installed per its listing and approval.
- B. Wet sprinkler piping shall be:
  - 1. Black steel Schedule 40 for 1 inch and smaller, and Schedule 10 for 1-1/2 inch and larger.
- C. System piping shall be substantially supported to the building structure. The installation of hangers and supports shall adhere to the requirements set forth in N.F.P.A. 13. Materials used in the installation or construction of hangers and supports shall be listed and approved for such application.
- D. Provide joining materials in accordance with NFPA 13.
- E. Transition Couplings: AWWA C219, sleeve type, or other manufactured fitting the same size as, with pressure rating at least equal to, and with ends compatible with piping to be joined.

# 2.2 SPRINKLERS

- A. Fire sprinklers shall be of one manufacturer throughout the building. No mixing of sprinkler brands shall be permitted. Sprinklers shall be of all brass frame construction with a quick response frangible bulb type fusible element.
- B. Automatic Sprinklers: With U.L. listed heat-responsive elements.
- C. Sprinkler Types and Categories: Provide per NFPA 13.
- D. Provide quick response sprinklers.
- E. Institutional Semi-Recessed or "Vandal-Resistant" sprinkler heads as required by application.
- F. Sprinkler Escutcheons: Materials, types, and finishes of sprinklers. Escutcheons for concealed, flush, and recessed-type sprinklers are specified with sprinklers.
- G. Sprinkler Guards: Wire-cage type, including fastening device for attaching to sprinkler.

# 2.3 SPRINKLER SPECIALTY FITTINGS

- A. Sprinkler specialty fittings shall be UL listed or FMG approved, with 175-psig minimum workingpressure rating, and made of materials compatible with piping.
- B. Sprinkler Drain and Alarm Test Fittings: Cast- or ductile-iron body; with threaded or locking-lug inlet and outlet, test valve, and orifice and sight glass.

FIRE-SUPPRESSION SPRINKLER SYSTEM 211000 - 5

- C. Sprinkler Branch-Line Test Fittings: Brass body with threaded inlet, capped drain outlet, and threaded outlet for sprinkler.
- D. Sprinkler Inspector's Test Fitting: Cast- or ductile-iron housing with threaded inlet and drain outlet and sight glass.
- E. Drop-Nipple Fittings: UL 1474, adjustable with threaded inlet and outlet, and seals.
- F. Contractor Option: Provide flexible sprinkler hose with fittings intended for use in sprinkler systems between the branch line and sprinkler. Provide in accordance with NFPA 13 and the manufacturer's installation instructions. Length: 38".
  - 1. U.L. 2443 listed for sprinkler hose application.
  - 2. Flexible Hose: Corrugated Stainless Steel AISI 304
  - 3. Slip Nuts: Brass C3771BC
  - 4. Reducer Fitting: Yellow Zinc/Steel SPPS
  - 5. Special Shoulder Nipple (Inlet): Yellow Zinc/Steel SPPS
  - 6. Reducing Nipple Clamp & Bolt: Galvanized Steel SS41
  - 7. Maximum Working Pressure of Flexible Connection: 200 PSI
  - 8. Test Pressure of Flexible Connection: 400 PSI
  - 9. Maximum Temperature Rating of Flexible Connection: 300 °F
  - 10. Provide ceiling bracket.

# 2.4 VALVES

- A. Valves shall be UL listed and FMG approved
- B. An NFPA-13 compliant setup including a backflow device, system control valve, flow switch, inspectors test, drain, and pressure gauge may be provided in lieu of an alarm valve.

# 2.5 WATERFLOW ALARMS

- A. Flow of water equal to or greater than that from a single automatic sprinkler (smallest orifice in system) shall result in an audible alarm on the premises within 5 minutes after such flow begins and until such flow stops.
- B. The alarm apparatus shall consist of a listed alarm check valve or other listed waterflowindicating device with the necessary attachments to give an alarm.
- C. The apparatus for a dry pipe system shall consist of alarm attachments to the dry pipe valve.

# PART 3 - EXECUTION

# 3.1 EXISTING SYSTEMS

- A. Refer to Division 1 demolition requirements and procedures. Disconnect, demolish, and remove fire-suppression systems, equipment, and components indicated to be removed.
- B. Existing Sprinkler System Shutdown: Follow NFPA 13 and NFPA 25 recommendations. Before shutting down the sprinkler system to perform the Work, notify the Owner's Representative in

writing, the local fire department, and the alarm company, that the system is to be shut down temporarily. Give schedule which states date and time of proposed shut down and the approximate length of time that the system will be out of service. Request instructions for precautions that should be taken during the shutdown period. Do not shut down the system until schedule is approved by the Owner's Representative. Return the existing system to pre-shutdown operation immediately after the Work has been completed. Give written notice to the Director's Representative that the system has been returned to pre-shutdown operation.

# 3.2 PREPARATION

A. The nature of the work requires coordination with other trades. Shop fabrication shall be done at the Contractor's risk. Relocation of piping and components to avoid obstructions may be necessary. Relocation, if required, shall be done at the Contractor's expense. The installation shall be performed in a workmanlike manner as determined by the Owner's Representative and in accordance with the Contract Documents, manufacturer's printed installation instructions, and submitted and Owner's Representative reviewed drawings.

# 3.3 SPRINKLER APPLICATIONS

- A. General: Use sprinklers according to the following applications:
  - 1. Rooms/spaces without Ceilings: Upright sprinklers.
  - 2. All occupied rooms with Finished Ceilings: Recessed Pendent.
  - 3. Provide sprinkler guards for heads in mechanical and storage spaces, less than 8 ft. above finished floor subject to mechanical damage.
  - 4. Low ceilings (under 8 feet): Concealed
  - 5. Electrical or Data Rooms with finished ceilings: Concealed
  - 6. Electrical or Data Rooms without ceilings: Provide guard.
  - 7. Wall Mounting: Sidewall sprinklers.
  - 8. Special Applications: Use extended-coverage, flow-control, and quick-response sprinklers where indicated.

# B. Finishes

- a. Unfinished spaces not exposed to view: rough bronze.
- b. Recessed Sprinklers: White
- c. Provide escutcheons with matching color for finished spaces.

# 3.4 SYSTEM INSTALLATIONS

- A. Earthquake Protection: Provide piping according to NFPA 13 to protect from earthquake damage.
- B. Water supply control valves shall be electrically supervised and mechanically locked for proper position. Water flow and supervisory circuits shall be in accordance with the requirements of electrical specifications. Electric connections to sprinkler system shall be by Division 26. Furnish wiring diagrams for all equipment.
- C. A sprinkler head wrench of each style and model installed shall be provided to the owner at the completion of the project. A representative sampling of each sprinkler head style and model

shall be provided to the owner and housed in a sprinkler head cabinet at or near the sprinkler riser. The number of sprinkler heads provided to the owner shall be in accordance with NFPA 13.

- D. Provide "Inspector's Test Connections" in sprinkler system piping, complete with shutoff valve, sized and located according to NFPA 13
- E. Provide a vent near a high point in the system to allow air to be removed from that portion of the system.

# 3.5 SPRINKLER INSTALLATION

- A. Provide sprinklers in suspended ceiling in center of all ceiling tiles.
- B. Do not install pendent or sidewall, wet-type sprinklers in areas subject to freezing. Use dry-type sprinklers with water supply from heated space per NFPA 13.
- C. Provide sprinkler piping with drains for complete system drainage.
- D. Hangers and Supports: Comply with NFPA 13 for hanger materials.

# 3.6 LABELING AND IDENTIFICATION

A. Provide labeling and pipe markers on equipment and piping according to requirements in NFPA 13.

# 3.7 FIELD QUALITY CONTROL

- A. Flush, test, and inspect sprinkler piping according to NFPA 13, "System Acceptance" Chapter.
- B. Verify that specialty valves, trim, fittings, controls, and accessories are installed and operate correctly.
- C. Verify that specified tests of piping are complete.
- D. Verify that damaged sprinklers and sprinklers with paint or coating not specified are replaced with new, correct type.
- E. Verify that sprinklers are correct types, have correct finishes and temperature ratings, and have guards as required for each application.
- F. Verify that potable-water supplies have correct types of backflow preventers.
- G. Verify that fire department connections have same type compatible with local fire department equipment.
- H. Replace piping system components that do not pass test procedures and retest to demonstrate compliance. Repeat procedure until satisfactory results are obtained.
- I. Fill wet-pipe sprinkler piping with water.

- J. Energize circuits to electrical equipment and devices.
- K. Coordinate with fire alarm tests. Operate as required.

# 3.8 CLEANING

- A. Clean dirt and debris from sprinklers.
- B. Remove and replace sprinklers having paint other than factory finish.
- C. Clean and disinfect fire-suppression water-service piping as follows:
  - 1. Purge new piping systems and parts of existing systems that have been altered, extended, or repaired before use.
  - 2. Use purging and disinfecting procedure prescribed by authorities having jurisdiction or, if method is not prescribed by authorities having jurisdiction, use procedure described in NFPA 24 for flushing of piping. Flush piping system with clean, potable water until dirty water does not appear at points of outlet.
  - 3. Use purging and disinfecting procedure prescribed by authorities having jurisdiction or, if method is not prescribed by authorities having jurisdiction, use procedure described in AWWA C651.
  - 4. Prepare reports.

# 3.9 PAINTING

- A. Painting of fire-suppression systems, equipment, and components is specified in Division 9.
- B. Damage and Touchup: Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

# 3.10 PROTECTION

A. Protect sprinklers from damage until Substantial Completion.

END OF SECTION

Appendix 1

# HAZARDOUS MATERIALS ASSESSMENT

FOR

# MAINE MARITIME ACADEMY CURTIS HALL CASTINE, MAINE

ed For: CHA Architecture, P.C. 49 Dartmouth Street Portland, Maine 04101

**Corporate Office** 

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SEPTEMBER 19, 2023 JN: 13150.007

Prepared For:

Report Prepared By: Haley Ward, Inc. One Merchants Plaza, Suite 701 | Bangor, Maine 04401



# **EXECUTIVE SUMMARY**

Haley Ward, Inc. (Haley Ward) completed a limited Hazardous Materials Assessment (HMA) on August 25, 2023, to identify and assess hazardous materials on or within Curtis Hall located on the Maine Maritime Academy campus in Castine, Maine.

This assessment was completed to identify and assess Asbestos-Containing Materials (ACM), Lead-Based Paint (LBP)/lead-containing surface coatings, and Potential Universal Wastes/hazardous materials which would require special handling and disposal or would be regulated prior to or during the planned renovations of the structure as identified on CHA Architecture, P.C. (CHA) Demolition Floor Plans, dated March 24, 2023.

Previously-identified ACM included the following:

• Twelve-inch by twelve-inch (12x12) white floor tile and associated adhesive.

Additional ACM identified during this limited renovation impact survey includes;

- Pipe insulation and associated mud pipe fittings (Boiler room)
- Mud pipe fitting insulation on fiberglass-insulated lines
- Tank insulation (Boiler room)
- 12x12 dark brown mottled floor tile and associated adhesive
- Exterior caulk associated with windows
- Rope gasket
- Vapor barrier
- Floor tile adhesive beneath non-ACM floor tile

# LBP/Lead-Containing Surface Coatings

LBP/Lead-containing surface coatings were identified on the interior of the building including:

• Structural steel

LBP/lead-containing surface coatings present on interior surfaces of the building were observed to be in fair condition.

# Potential Hazardous Materials/Wastes and Universal Wastes

The following potential Hazardous Materials/Wastes and Universal Wastes were identified on the interior of the building:

- Fluorescent light bulbs
- Fluorescent light ballasts
- Emergency exit signs/batteries
- Mercury-containing thermostats



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### **APPENDICES**

- Asbestos and Lead-Based Paint Risk Assessor Certifications Appendix A
- Asbestos Analytical Laboratory Certifications Appendix B
- Appendix C Asbestos Laboratory Analytical Results
- Appendix D Photographic Log



### 1.0 INTRODUCTION

Haley Ward, Inc. (Haley Ward) completed a limited Hazardous Materials Assessment (HMA) on August 25, 2023, to identify and assess hazardous materials on or within Curtis Hall located on the Maine Maritime Academy (MMA) campus in Castine, Maine. Curtis Hall is a five-story residence hall, constructed of masonry and steel, with dormitory rooms, student lounges, laundry facilities, bathrooms, and utility closets on the upper four floors. The ground floor contains the bookstore, recreation facilities and utility rooms with the first floor supporting the Administrative Offices and student and health services. The building includes an Ethylene Propylene Diene Monomer (EPDM) membrane roof system.

The HMA was completed to identify and assess Asbestos-Containing Materials (ACM), Lead-Based Paint (LBP)/lead-containing surface coatings, and Potential Universal Wastes/hazardous materials which would require special handling and disposal or would be regulated prior to or during the planned renovations of the structure as identified on CHA Architecture, P.C. (CHA) Demolition Floor Plans, dated March 24, 2023. The scope of the planned renovation work includes upgrades to mechanical, plumbing, electrical, fire protection, and heating systems and improvements to the building envelope including the roof, windows, and exterior cladding.

Curtis Hall was partially occupied by residents at the time of the survey. Haley Ward coordinated with MMA to identify unoccupied residential units and evaluated approximately twenty five percent of the residential units within the building. Haley Ward also evaluated accessible ceiling plenums, sink enclosures, and access panels in hallways, restrooms, utility closets, and mechanical spaces on each of the floors to determine the existence of suspect ACM.

Haley Ward observed the following:

- Heating and plumbing piping were visible from the ceiling plenums. The piping was observed to be uninsulated or covered with fiberglass insulation.
- In some cases, plumbing piping extended into concrete masonry unit (CMU) most of which was uninsulated or covered with fiberglass. The piping extends approximately one foot into the CMU block and is sealed with concrete.
- Elbows within the ceiling plenum are either uninsulated, covered with vinyl fitting covers, or mud fitting insulation. Based on the analytical results, mud fitting insulation, sampled in various locations throughout the facility, was identified as asbestos-containing. The mud fitting insulation should be assumed as ACM unless proven otherwise through additional sampling and analysis.
- Haley Ward accessed the enclosures beneath the sinks in the restrooms and observed uninsulated piping.



• Fiberglass-insulated piping extends out into the plaster-covered soffit, running adjacent to the building frame.

### 2.0 ASBESTOS-CONTAINING MATERIALS

### 2.1 Asbestos Renovation Impact Survey

An asbestos renovation impact survey was conducted in accordance with the Maine Department of Environmental Protection (MDEP) Asbestos Management Regulations (06-096 C.M.R. Chapter 425, 2011) to provide information regarding the presence of ACM within the interior and on the exterior of the building. Ms. Suzanne Yerina and Ms. Deborah Kasik, licensed MDEP Asbestos Inspectors, performed the field survey. A copy of Ms. Yerina's and Ms. Kasik's Asbestos Inspector certifications is included in **Appendix A**.

Completion of the asbestos renovation impact survey included:

- Visual identification of suspect ACM on the interior and/or exterior of the building.
- Assignment of room numbers for sample and identified ACM location(s).
- Collection of 160 bulk samples of suspected ACM in accordance with MDEP regulations.
- Quantification of ACM identified by laboratory analysis.

As with any scientific study, an asbestos renovation impact survey is subject to a variety of limitations. Limitations to be considered when interpreting the results of the survey performed on the structure include the following:

- An asbestos renovation impact survey may not be able to identify all ACM present throughout a facility.
- Variations in building materials used during construction and subsequent renovations.
- Inaccessible rooms and areas within wall cavities, under floors, and above solid ceilings.
- Sampling of the EPDM roof systems was not included in the scope of work for the property, due to accessibility, roof system type (EPDM), and repair requirements. Haley Ward could not determine if the original roof system was removed prior to the installation of the EPDM roof system. Typically, flat, asphalt built-up roof systems are considered suspect ACM. Should the roof system be impacted by future renovations, the presence of the original roof should be identified and, if present, should be sampled to determine if ACM.



A total of one hundred sixty (160) samples of identified suspect ACM were collected from the interior and exterior of the building, including:

- Plaster ceiling material
- Gypsum wall and ceiling material
- Mud pipe fitting insulation on fiberglass-insulated lines
- Pipe insulation and associated mud pipe fittings
- Tank insulation
- Twelve types of floor tiles and associated adhesives
- Flooring adhesive
- Two types of sheet flooring
- Five types of ceiling tiles
- Wall panel adhesive
- Glue daubs
- Carpet adhesive
- Rope gasket
- Firestop caulk
- Vapor barrier
- Joint compound used as surfacing material
- Exterior soffit ceiling plaster
- Exterior column skim coat
- Exterior window glazing
- Exterior caulk associated with windows

The number of samples collected was determined by the number of homogeneous sampling areas identified by the inspector. A homogeneous area is an area which, based on the inspector's judgment, contains materials that are uniform in color and texture and are present on similar building or utility components.

Bulk samples of suspect ACM collected during the survey of the building were submitted to EMSL Analytical, Inc. (EMSL) of South Portland, Maine for analysis. Bulk samples were analyzed using the MDEP required analytical methods: "PLM-EPA 600/R-93/116" (for surfacing, thermal system insulation, and cementitious materials), and "PLM NOB-EPA 600/R-93/116" (for non-friable organically bound materials (NOBs)) (e.g., floor tile, adhesives, and roofing) with "gravimetric reduction." EMSL's laboratory is certified to perform asbestos analysis by both the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA). EMSL is a MDEP licensed Asbestos Analytical Laboratory. Copies of EMSL's laboratory certifications are included as **Appendix B**. Laboratory analytical results and chain of custodies are included as **Appendix C**.



### 2.2 Asbestos Sampling Results

According to MDEP regulations, locations and occurrences of materials that tested positive and are homogenous in nature (similar in color and texture) are considered as ACM provided the material contains greater than or equal to ( $\geq$ ) one percent asbestos based on laboratory analysis. A material can only be considered negative for asbestos if analytical results from all bulk samples in a group of samples representing that material indicate an asbestos content of less than one percent (<1%).

ACM identified by laboratory analysis included:

- Pipe insulation and associated mud pipe fitting insulation
- Mud pipe fitting insulation on fiberglass-insulated lines
- Tank insulation
- 12x12 dark brown mottled floor tile and associated adhesive
- Flooring adhesive
- Exterior caulk
- Rope gasket
- Vapor barrier

A summary of identified asbestos and locations are included in **Table 1**. Sample locations and locations of identified ACM are included in **Figures H100 through H104**.

### 3.0 LEAD-BASED PAINT/LEAD-CONTAINING SURFACE COATING DETERMINATION

An LBP/lead-containing surface coating determination was conducted by Ms. Deborah A. Kasik, a MDEP certified Lead Risk Assessor. A copy of Ms. Kasik's Lead Risk Assessor certification is included in **Appendix A**. The purpose of the determination was to identify LBP/lead-containing surface coatings, if present, on the interior and/or exterior surfaces of the building. The LBP determination was performed in accordance with the established protocols outlined in the MDEP Lead Management Regulation (06-096 C.M.R. Chapter



424 § 7, 2021) and as applicable to this project. The testing provides information on the lead content and an assessment of the condition of the surfaces tested.

The LBP/lead-containing surface coating testing was conducted using a portable X-Ray Fluorescence (XRF) Lead Paint Analyzer (RMD LPA-1), which non-destructively tests for the presence of LBP or other lead-containing surface coatings. The XRF analyzer is licensed with the Maine Department of Human Services Radiation Control Program and operated in accordance with all applicable regulations and conditions of licensure. The determination as to whether a component contains lead is based upon the MDEP Lead Management Regulations. The MDEP defines a component as lead-containing if the XRF result is  $\geq$  1.0 milligrams per square centimeter (mg/cm<sup>2</sup>). A visual assessment of the determination.

LBP/lead-containing surface coatings were identified on the structural steel supports of the building. A summary of the XRF results, by building material and including all floors, is outlined below.

| BUILDING COMPONENTS                      | XRF READING<br>CLASSIFICATION |
|--|-------------------------------|
| Ceilings (sheetrock)                     | Negative                      |
| Walls (sheetrock, CMU block              | Negative                      |
| Floors                                   | Negative                      |
| Doors and associated trim                | Negative                      |
| Window units (brown) and associated trim | Negative                      |
| Piping                                   | Negative                      |
| Window units (tan) and associated trim   | Negative                      |
| Structural Steel Supports                | Positive                      |
| Access panels                            | Negative                      |
| Ceramic tile walls                       | Negative                      |
| Baffles                                  | Negative                      |
| Walls (concrete)                         | Negative                      |
| Exterior plaster ceiling                 | Negative                      |
| Exterior columns                         | Negative                      |

### SUMMARY OF XRF RESULTS BY BUILDING COMPONENT CURTIS HALL, MAINE MARITIME ACADEMY, CASTINE, MAINE



### 4.0 POTENTIAL UNIVERSAL AND/OR HAZARDOUS MATERIALS/WASTES

The following potential Hazardous Materials/Wastes and Universal Wastes were identified within the building:

- Fluorescent light bulbs and associated light ballasts
- Emergency exit signs/batteries
- Mercury-containing thermostats

An estimated hazardous materials inventory and the associated removal costs is presented in **Table 3**.

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation revealed the following relevant information:

### ACM

ACM identified by laboratory analysis included:

- Pipe insulation and associated mud pipe fitting insulation (boiler room)
- Mud pipe fitting insulation on fiberglass-insulated lines
- Tank insulation (boiler room)
- 12x12 dark brown mottled floor tile and associated adhesive
- Exterior Caulk associated with windows
- Rope gasket
- Vapor barrier
- Floor tile adhesive beneath non-ACM floor tile

Previously-identified ACM included the following:

• 12x12 white floor tile and associated adhesive

Current state regulations require that identified ACM which may be impacted by planned renovation/demolition activity be removed by a MDEP licensed asbestos abatement contractor in accordance with applicable state and federal regulations prior to disturbance of ACM by such planned activities. In accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 61), and MDEP Asbestos Management Regulations, a contractor conducting a renovation and/or demolition activity that would disturb regulated ACM must: (1) notify the U.S. Environmental Protection Agency (USEPA) Administrator and the MDEP of such activities, (2) use proper removal procedures, (3) use proper engineering controls to limit emissions of asbestos

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fibers, and (4) utilize proper waste disposal. If any hidden suspect ACM (behind walls, in chases, above permanent ceilings, etc.) is uncovered during renovation or demolition activities, work must be stopped, and the material tested for asbestos content. All ACM must be disposed of in accordance with all applicable state and federal requirements.

The building is constructed with a flat EPDM roof system and information as to whether the original roof system was removed or covered over by the EPDM roof system is not available. Should the roof system be impacted by future renovations, the presence of the original roof should be identified and, if present, should be sampled to determine if it's asbestos-containing.

### Lead-Based Paint (LBP)/Lead-Containing Surface Coatings

LBP/lead-containing surface coatings were identified on the interior of Curtis Hall property including:

Structural steel supports

LBP/lead-containing surface coatings present on interior surfaces of the building were observed to be in fair condition.

### Potential Hazardous Materials/Wastes and Universal Wastes

The following potential Hazardous Materials/Wastes and Universal Wastes were identified within the building:

- Fluorescent light bulbs and associated light ballasts
- Mercury-containing thermostats
- Emergency exit signs/batteries

When removed from fixtures for disposal, fluorescent light bulbs are considered a Universal Waste and must be properly handled, packaged, and disposed of under current MDEP Universal Waste Rules (06-096 C.M.R. Chapter 858, 2018). Fluorescent light ballasts contain capacitors that may be filled with PCB-containing dielectric fluid. However, it is unknown whether such PCB-containing ballasts, considered a Universal Waste, are present in the building.

The recommended Best Management Practice (BMP) is to individually remove each light fixture and have individual ballasts evaluated to confirm the presence or absence of PCBs. Non-PCB light ballasts will be clearly labeled as not containing PCBs and may be disposed of as solid waste. If no such labeling is present, the ballast should be treated as PCB-containing and be segregated and handled as Universal Waste.



Emergency exit signs, light batteries, and mercury-containing thermostats should be removed and recycled or disposed of properly.

### 6.0 **REPORT CERTIFICATION**

This report was prepared and reviewed by Haley Ward for the use of CHA Architecture, P.C., and should not be reproduced without their full, written authorization.

Anak J. Kank

Deborah A. Kasik Project Scientist II MDEP Certified Asbestos Inspector License No. Al-0177 MDEP Certified Lead Risk Assessor License No. LR-0003

Suzanne Yerina, L.G., P.G. Senior Project Geologist MDEP Certified Asbestos Inspector License No. Al-0451

Michael D. Sauda, MPH, CSP Senior Project Manager

DAK/SLY/MDS/Imb Attachments

JN: 13150.007

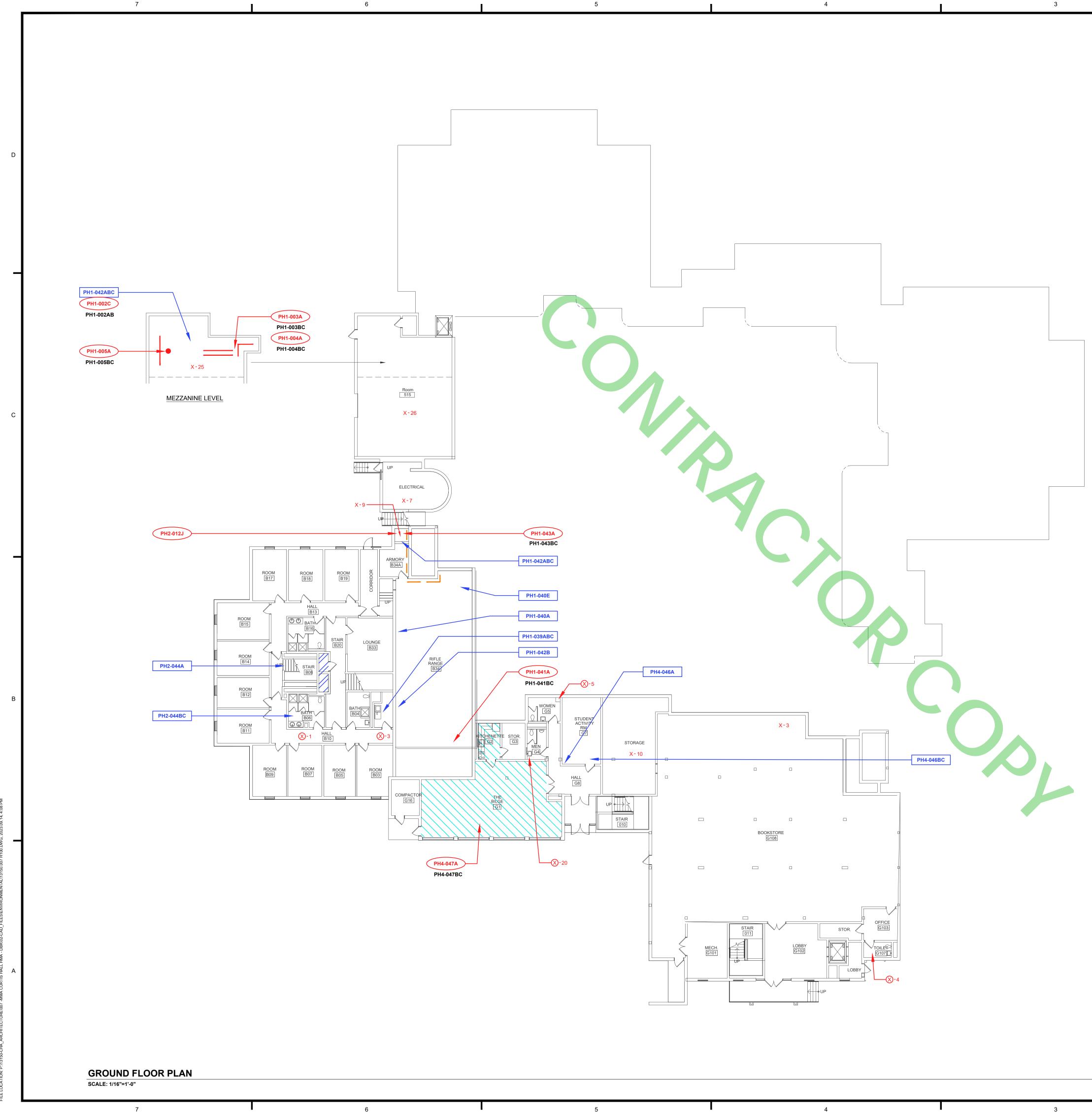
8

PCOS,



### **FIGURES**

H100 – Ground Floor Pan H101 – First Floor Plan H102 – Second Floor Plan H103 – Third Floor Plan H104 – Fourth Floor Plan



2

# PLAN REFERENCE: FLOOR PLAN DERIVED FROM DRAWINGS BY OTHERS PROVIDED TO HALEY WARD, INC AND ARE NOT WARRANTED AS TO ACCURACY AND ARE INTENDED TO BE SCHEMATIC.

SAMPLE NUMBER AND LOCATION TESTING POSITIVE FOR ASBESTOS

SAMPLE NUMBER AND LOCATION

### ASBESTOS LEGEND

## PH1-001A PH-002A SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS PH-001B 7////

**⊗**-1

SAMPLE NUMBER AND LOCATION NOT ANALYZED (POSITIVE STOP) NON-ACM FLOOR TILE WITH ASSOCIATED ACM ADHESIVE

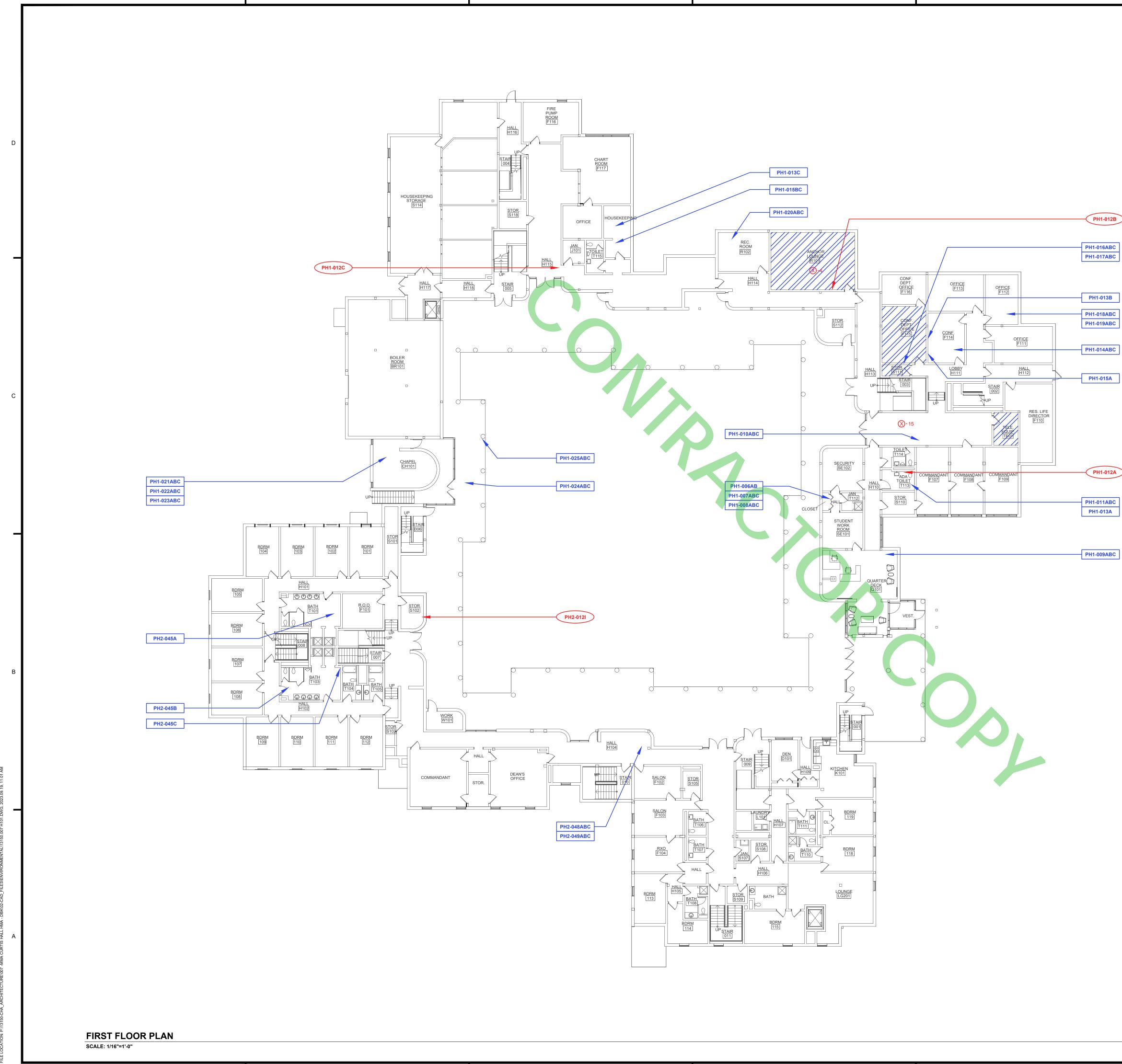
ACM FLOOR TILE WITH ASSOCIATED ACM ADHESIVE ACM INSULATED PIPE EXPOSED

ACM INSULATED PIPE FITTING ABOVE CEILING X-3 ACM INSULATED PIPE FITTING

💻 💻 💻 ACM ASPHALT VAPOR BARRIER ACM TANK INSULATION 

<u>NOTE:</u> ALL EXTERIOR WINDOWS HAVE ASBESTOS CONTAINING CAULKING. (REFER TO SAMPLE PH1-030A)

| CHK.                   | BY       |                                     |            |                         | DESCRIPTION | DATE            | REV.   |
|------------------------|----------|-------------------------------------|------------|-------------------------|-------------|-----------------|--------|
|                        |          | Л                                   | UCTIC      | CONSTR                  | NOT FC      | NG ISSUE STATUS | DRAWIN |
| YING<br>e 701<br>04401 | SURVE    | IMENTAL  <br>rchants Pla<br>Bangor, | environ    | AL [                    |             | VW.HALEYWA      | WW     |
|                        |          | ne 04421                            |            | RTIS HAI<br>ademy, Cast |             | Mai             |        |
|                        | IT       | -                                   |            | D FLOOF<br>ATERIAL      |             | HAZA            | TITLE  |
|                        | NOTED    | SCALE                               |            | TE<br>2023.09.1         |             |                 |        |
| <u> </u>               | ECKED BY | -                                   | DESIGNED E | AWN BY<br>MEB           |             |                 |        |
|                        |          | 0.007                               | 13150      | OJECT No.               |             |                 |        |
| EV.                    | F        | 0                                   | 1100       | AWING No.               |             |                 |        |



5

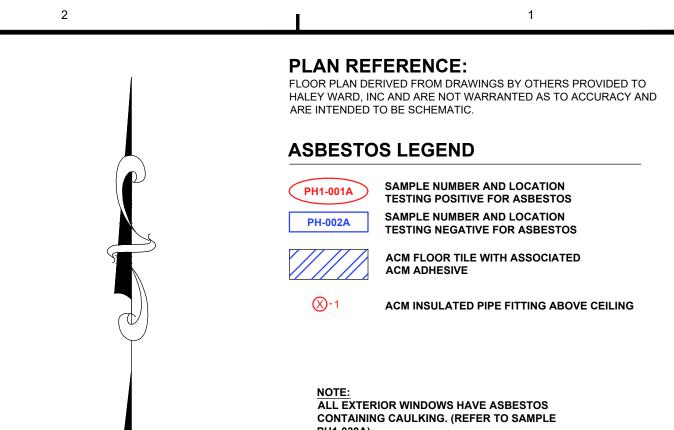
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PH1-030A)

## PH1-012B

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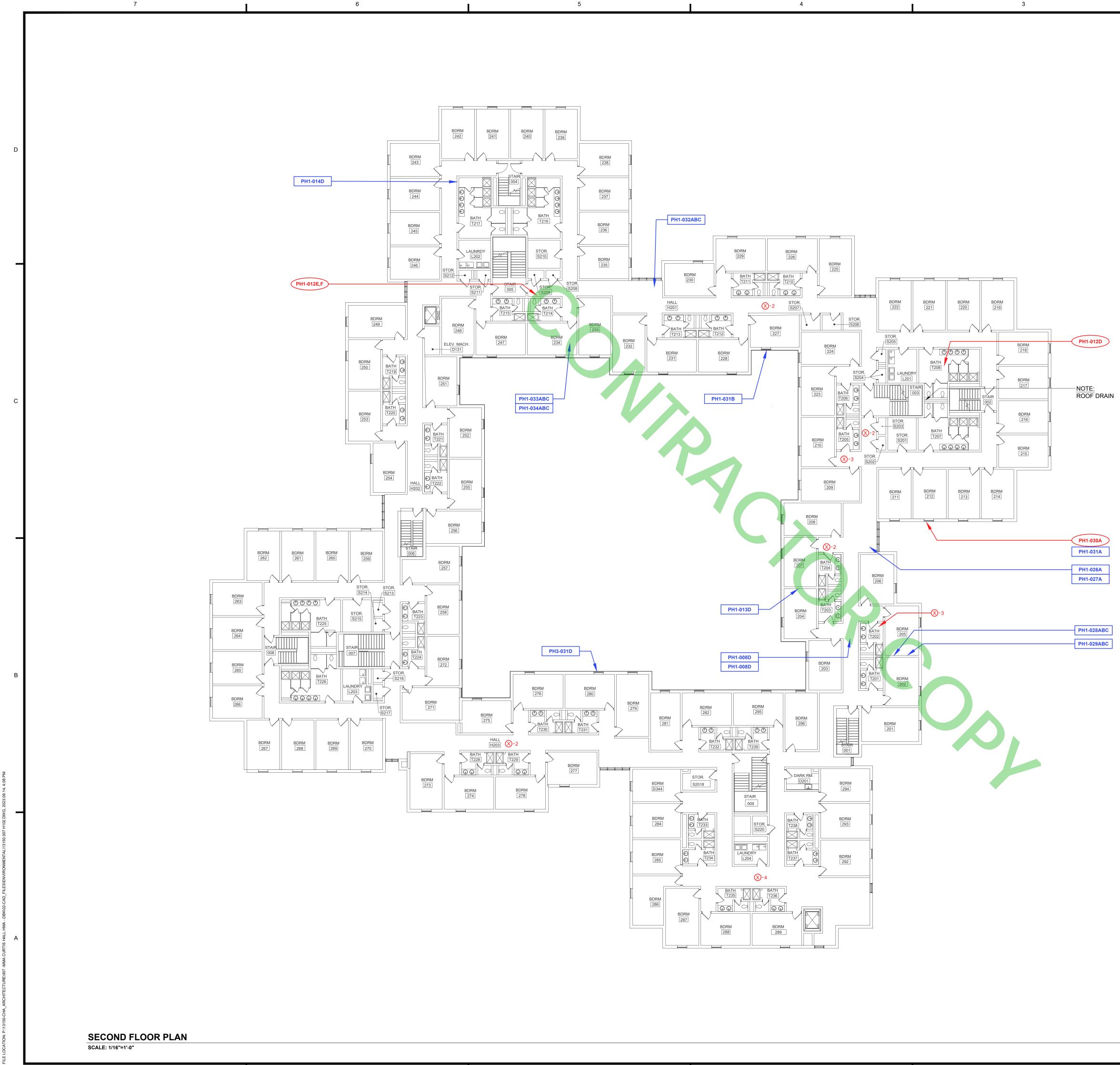
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### DATE DESCRIPTION BY CHK. REV. NG ISSUE STATUS NOT FOR CONSTRUCTION HALEY WARD ENGINEERING | ENVIRONMENTAL | SURVEYING One Merchants Plaza, Suite 701 Bangor, Maine 04401 207.989.4824 WWW.HALEYWARD.COM MMA CURTIS HALL Maine Maritime Academy, Castine, Maine 04421 FIRST FLOOR PLAN HAZARDOUS MATERIAL ASSESSMENT 2023.09.14 AS NOTED CHECKED BY MEB DAK DAK ROJECT No. 13150.007 H101



7

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3

2

PLAN REFERENCE: FLOOR PLAN DERIVED FROM DRAWINGS BY OTHERS PROVIDED TO HALEY WARD, INC AND ARE NOT WARRANTED AS TO ACCURACY AND ARE INTENDED TO BE SCHEMATIC.

### ASBESTOS LEGEND

PH1-001A

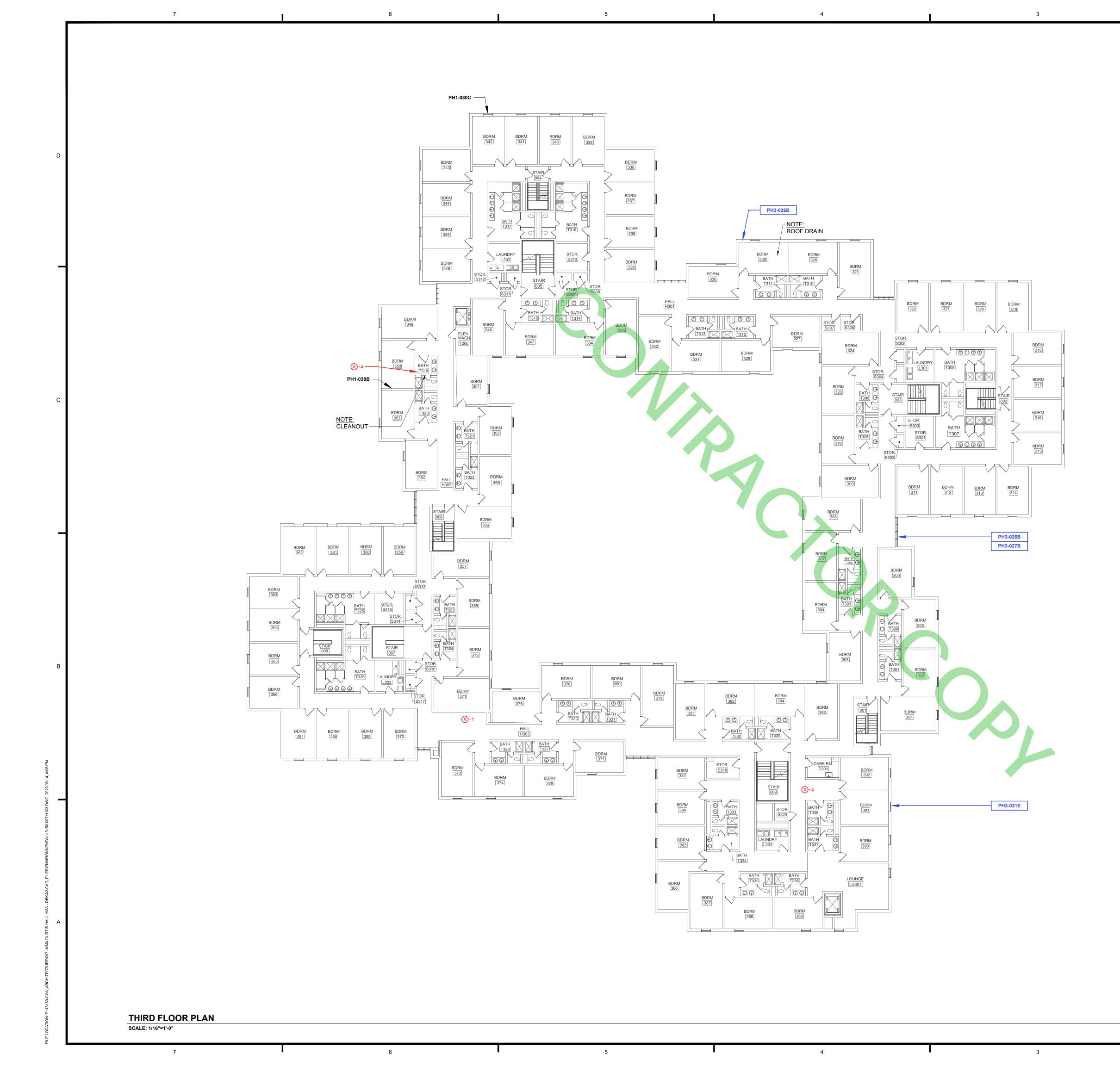
SAMPLE NUMBER AND LOCATION TESTING POSITIVE FOR ASBESTOS PH-002A SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS

**⊗**-1

ACM INSULATED PIPE FITTING ABOVE CEILING

<u>NOTE:</u> ALL EXTERIOR WINDOWS HAVE ASBESTOS CONTAINING CAULKING. (REFER TO SAMPLE PH1-030A)

| REV. DATE DESCR      | PTION           |                           | ВҮ СНК.  |
|----------------------|-----------------|---------------------------|--|
| DRAWING ISSUE STATUS | T FOR CONST     | RUCTION                   |  |
| WWW.HALEYWARD.C      | ENGINEERING     | ENVIRONMEN<br>One Merchai | TAL   SURVEYING<br>nts Plaza, Suite 701<br>ngor, Maine 04401<br>207.989.4824 |
| Maine M              | CURTIS HA       |                           | 1421   |
|                      | SECOND FLOC     |                           | MENT   |
|                      | DATE 2023.0     | 9.14                      | AS NOTED   |
|                      | DRAWN BY<br>MEB | DESIGNED BY               | CHECKED BY<br>DAK  |
|                      | PROJECT No.     | 13150.007                 | •  |
|                      | DRAWING No.     |                           | REV.   |
|                      |                 |                           |  |



## PLAN REFERENCE:

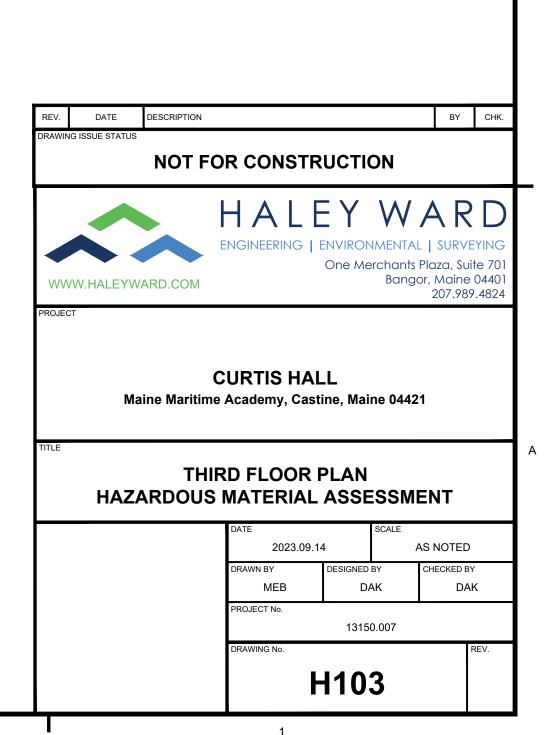
FLOOR PLAN DERIVED FROM DRAWINGS BY OTHERS PROVIDED TO HALEY WARD, INC AND ARE NOT WARRANTED AS TO ACCURACY AND ARE INTENDED TO BE SCHEMATIC.

### ASBESTOS LEGEND

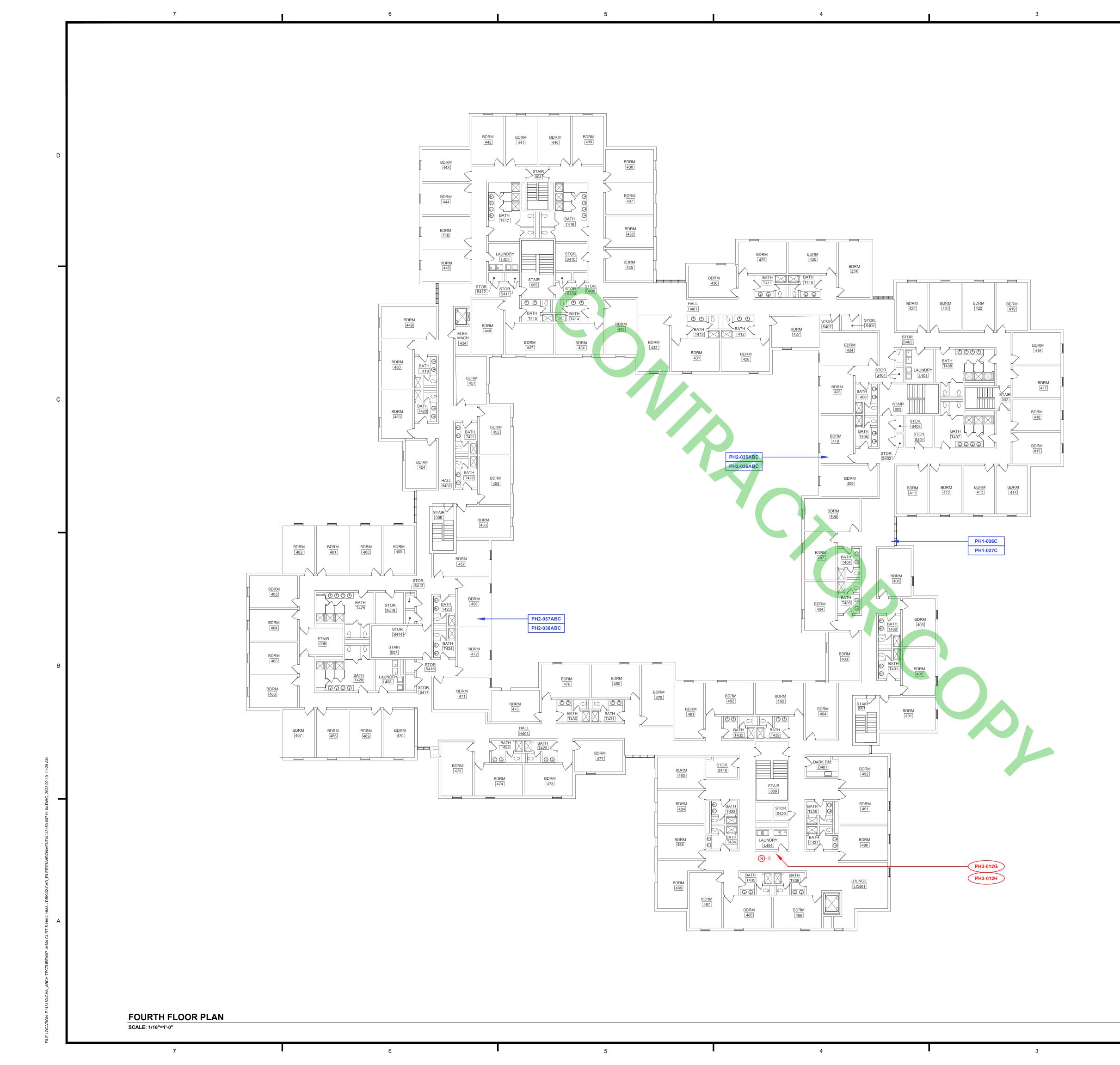
PH-002A PH-001B

SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS SAMPLE NUMBER AND LOCATION NOT ANALYZED (POSITIVE STOP) **⊗**-1 ACM INSULATED PIPE FITTING ABOVE CEILING

<u>NOTE:</u> ALL EXTERIOR WINDOWS HAVE ASBESTOS CONTAINING CAULKING. (REFER TO SAMPLE PH1-030A)







### PLAN REFERENCE:

FLOOR PLAN DERIVED FROM DRAWINGS BY OTHERS PROVIDED TO HALEY WARD, INC AND ARE NOT WARRANTED AS TO ACCURACY AND ARE INTENDED TO BE SCHEMATIC.

### ASBESTOS LEGEND

PH1-001A

SAMPLE NUMBER AND LOCATION TESTING POSITIVE FOR ASBESTOS PH-002A SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS

**ACM INSULATED PIPE FITTING ABOVE CEILING** 

<u>NOTE:</u> ALL EXTERIOR WINDOWS HAVE ASBESTOS CONTAINING CAULKING. (REFER TO SAMPLE PH1-030A)

|               |   | 1           |                       |          |                                      |                   |                          |  |  |
|---------------|---|-------------|-----------------------|----------|--------------------------------------|-------------------|--------------------------|--|--|
| REV.<br>RAWIN | DATE  | DESCRIPTION |                       |          |                                      | BY                | CHK.                     |  |  |
|               |   | NOT F       | OR CONSTR             | UCTIO    | NC                                   |                   |                          |  |  |
| WW            | /W.HALEYW   | /ARD.COM    | HALE<br>ENGINEERING   | ENVIRON  | IMENTAL  <br>erchants Plo<br>Bangor, | SURVE<br>aza, Sui | EYING<br>te 701<br>04401 |  |  |
|               | MMA CURTIS HALL<br>Maine Maritime Academy, Castine, Maine 04421 |             |                       |          |                                      |                   |                          |  |  |
| TLE           | HAZ   |             | RTH FLOOR<br>MATERIAL |          | -                                    | NT                |                          |  |  |
|               |   |             | DATE 2023.09.1        | 4        | SCALE<br>AS                          | NOTED             |                          |  |  |
|               |   |             | DRAWN BY<br>MEB       | DESIGNED |                                      | ECKED BY          |                          |  |  |
|               |   |             | PROJECT No.           | -        | •                                    |                   |                          |  |  |

H104

1





#### **TABLES**

Table 1. Summary of Identified Asbestos-Containing MaterialsTable 2. Hazardous Materials Inventory

## TABLE 1 | SUMMARY OF IDENTIFIED ASBESTOS CONTAINING MATERIALS (ACM) AND ESTIMATED QUANTITIES CURTIS HALL, MAINE MARITIME ACADEMY, CASTINE, MAINE

| Room<br>Section/Number     | Sample #:            | Pipe Insulation<br>and Associated<br>Mud Pipe Fittings<br>(LF) | Tank Insulation<br>(SF) | Mud Pipe<br>Fittings Insulation<br>on Fiberglass-<br>insulated lines<br>(EA) | Gasket on<br>stored<br>equipment (SF) | Asphalt Vapor<br>Barrier (SF) | Floor Tile<br>Adhesive<br>beneath Non-<br>ACM Floor Tile<br>(SF) | Floor Tile and<br>associated ACM<br>adhesive (SF) | Exterior<br>Associate<br>Window<br>(EA |
|----------------------------|----------------------|--|-------------------------|--|---------------------------------------|-------------------------------|--|---|--|
|                            |                      |  |                         |  | GRO                                   | UND FLOOR                     |  |   |  |
|                            | PH1-002C<br>PH1-003A | 30   |                         |  |                                       |                               |  |   |  |
| Boiler Room -<br>Mezzanine | PH1-004A             |  |                         | 25   |                                       |                               |  |   |  |
|                            | PH1-005A             |  | 50                      |  |                                       |                               |  |   |  |
| Boiler Room                | PH1-004A             |  |                         | 26   |                                       |                               |  |   |  |
| Electrical Room            | PH1-004A             |  |                         | 7  |                                       |                               |  |   |  |
|                            | PH1-004A             |  |                         | 10   | Z                                     |                               |  |   |  |
| Armory Chase               | PH2-043A             |  |                         |  |                                       | 40                            |  |   |  |
| Armory                     | PH2-043A             |  |                         |  |                                       | 60                            |  |   |  |
|                            | PH2-043A             |  |                         |  |                                       | 180                           |  |   |  |
| Rifle Range (B34)          | PH2-041A             |  |                         |  | 2                                     |                               |  |   |  |
| Hallway (B10)              | PH1-012A             |  |                         | 4  |                                       | 7                             |  |   |  |
| The Bilge (G1)             | PH4-047A             |  |                         |  |                                       |                               | 625  |   |  |
| Kitchen (G2)               | PH4-047A             |  |                         |  |                                       |                               | 55   |   |  |
| Men's Room (G4)            | PH1-012A             |  |                         | 20   |                                       |                               |  |   |  |
| Women (G5)                 | PH1-012A             |  |                         | 5  |                                       |                               |  |   |  |
| Bookstore Storage<br>(G17) | PH1-012A             |  |                         | 10   |                                       |                               |  | r   |  |
| Bookstore (G106)           | PH1-012A             |  |                         | 7  |                                       |                               |  |   |  |
|                            |                      | ·  |                         |  | FIR                                   | ST FLOOR                      |  | ·   |  |
| Tele Equip TE001           | PH1-016A             |  |                         |  |                                       |                               |  | 60  |  |
| Storage \$111              | PH1-016A             |  |                         |  |                                       |                               |  | 50  |  |
| Conf Dept Office<br>(F115) | PH1-016A             |  |                         |  |                                       |                               |  | 180   |  |

| or Caulk<br>Ited with<br>7 Frames<br>A) | Comment                         |
|---|---------------------------------|
|   |                                 |
|   |                                 |
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|   |                                 |
|   |                                 |
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|   |                                 |
|   |                                 |
|   |                                 |
|   | Above ceiling tiles             |
|   |                                 |
|   |                                 |
|   | Chase inaccessible              |
|   | located within a pipe enclosure |
|   |                                 |
|   |                                 |
|   |                                 |
|   |                                 |
|   |                                 |
|   |                                 |



## TABLE 1 | SUMMARY OF IDENTIFIED ASBESTOS CONTAINING MATERIALS (ACM) AND ESTIMATED QUANTITIES CURTIS HALL, MAINE MARITIME ACADEMY, CASTINE, MAINE

| Room<br>Section/Number       | Sample #: | Pipe Insulation<br>and Associated<br>Mud Pipe Fittings<br>(LF) | Tank Insulation<br>(SF) | Mud Pipe<br>Fittings Insulation<br>on Fiberglass-<br>insulated lines<br>(EA) | Gasket on<br>stored<br>equipment (SF) | Asphalt Vapor<br>Barrier (SF) | Floor Tile<br>Adhesive<br>beneath Non-<br>ACM Floor Tile<br>(SF) | Floor Tile and<br>associated ACM<br>adhesive (SF) | Exterior (<br>Associate<br>Window F<br>(EA) |
|------------------------------|-----------|--|-------------------------|--|---------------------------------------|-------------------------------|--|---|---|
| Hallway near F107            | PH1-012A  |  |                         | 15   |                                       |                               |  |   |   |
| Anchor Lounge<br>(R101)      | PH1-012A  |  |                         | 4  |                                       |                               |  |   |   |
|                              |           |  |                         |  | SECC                                  | OND FLOOR                     |  |   |   |
| H203                         | PH1-012A  |  |                         | 2  |                                       |                               |  |   |   |
| Hallway outside<br>T235/T236 | PH1-012A  |  |                         | 4  |                                       |                               |  |   |   |
| T202                         | PH1-012A  |  |                         | 3  |                                       |                               |  |   |   |
| Hallway outside<br>T204      | PH1-012A  |  |                         | 2  | Z                                     |                               |  |   |   |
| Hallway outside<br>\$203     | PH1-012A  |  |                         | 2  |                                       |                               |  |   |   |
| S207                         | PH1-012A  |  |                         | 2  |                                       |                               |  |   |   |
|                              |           |  |                         |  | тні                                   | RD FLOOR                      |  |   |   |
| T319                         |           |  |                         | 4  |                                       |                               |  |   |   |
| H303                         |           |  |                         | 1  |                                       | 7                             |  |   |   |
| Hall outside T338            |           |  |                         | 4  |                                       |                               |  |   |   |
|                              |           |  |                         |  | FOU                                   | RTH FLOOR                     |  | ·   |   |
| Hall outside L404            |           |  |                         | 2  |                                       |                               |  |   |   |
|                              |           |  |                         |  | EX                                    | XTERIOR                       |  | K   |   |
| Exterior                     | PH1-030A  |  |                         |  |                                       |                               |  |   | 475   |
| TOTALS:                      |           | 30   | 50                      | 159  | 2                                     | 280                           | 680  | 290   | 475   |



| r Caulk<br>ted with<br>7 Frames<br>A) | Comment |
|---------------------------------------|---------|
|                                       |         |
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|                                       |         |
| 75                                    |         |
| 75                                    |         |



### TABLE 2 HAZARDOUS MATERIALS INVENTORY CURTIS HALL, MAINE MARITIME ACADEMY, CASTINE, MAINE

| Identified Hazardous Materials        | Estimated<br>Quantity<br>(Each) |
|---------------------------------------|---------------------------------|
| Fluorescent Light Tubes - 2 foot*     | 240                             |
| Fluorescent Light Tubes - 4 foot      | 3,200                           |
| Suspect PCB-Containing Light Ballasts | 2,000                           |
| Mercury-containing Thermostat         | 10                              |
| Exit Light Signs/Batteries            | 5                               |

iry-containing ...



### **APPENDIX A**

ASBESTOS INSPECTOR CERTIFICATION LEAD RISK ASSESSOR CERTIFICATION

State of Maine Asbestos Abatement Program



Suzanne L. Yerina

Inspector Cert No. AI-0451 Trn.Exp.Date 11/10/2023 Expiration Date 11/30/2023 This is not a legal form of otheral identification

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Sp COs.



#### STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION



JANET T. MILLS GOVERNOR

December 4, 2022

### Haley Ward, Inc.

1 Merchants Plaza, Suite 701 Bangor, Maine 04401

Dear Licensee:

Asbestos application(s) for individual certification of the **two** employee(s) listed below have been received and **approved**. Individual certification numbers are listed below and wallet card(s) are enclosed. <u>Card(s) are property of the individual to whom each is issued</u>. 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 <u>https://www.maine.gov/dep/waste/asbestos/forms.html</u> Thank you for your cooperation and your completed application(s).

<u>Name</u>

<u>Category</u>

Deborah A. Kasik Dennis B. Kingman, Jr. Inspector Inspector AI-0177 AI-0034

Certification #

Exp. Date

11/30/2023 11/30/2023

MELANIE LOYZIM

COMMISSIONER

Sincerely,

Sand of Moody

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

AUGUSTA 17 STATE HOUSE STATION AUGUSTA, MAINU 04333-0017 (207) 287-7688 FAX: (207) 287-7826

BANGOR 106 HOGAN ROAD, SUITE 6 BANGOR, MAINE 04401 (207) 941-4570 FAX: (207) 941-4584 PORTLAND 312 CANCO ROA PORTLAND, MAINL VT103 (202) 822 6300 M/V (202) 822 6303



Inspector Cert No. Al-0177 Trn.Exp.Date 11/10/2023 Expiration Date 11/30/2023

State of Maine

Asbestos Abatement Program

Deborah A. Kasik

This is not a legal form of official identification



(207) 822-6300 FAX: (207) 822-6303 (207) 764-0477 FAX: (207) 760-3143

#### STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION



MELANIE LOYZIM COMMISSIONER

January 28, 2023

Attn.: Deborah A. Kasik Haley Ward, Inc. 1 Merchant's Plaza, 7th Floor Bangor, Maine 04401

Dear Ms. Kasik,

Your lead application for certification has been received and approved. You have been granted certification as a Lead Risk Assessor LR-0003. Enclosed is your wallet card, with an expiration date of January 05, 2024. All employees working on a lead abatement project must carry this photo ID wallet card. The card is property of the individual to whom it is issued. Your responsibility as a licensee is to ensure delivery of the card to person 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.

Thank you for your cooperation and your completed application(s). Applications can now be found on our DEP webpage at the following: https://www.maine.gov/dep/waste/lead/forms/index.html

If you have any questions on this certification or on any other aspect of DEP's lead abatement licensing program, please call Sandy Moody (207) 242-0877 or email sandy.j.moody@maine.gov

PORTLAND

312 CANCO ROAD

PORTLAND, MAINE 04103

Sincerely,

- of moody

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

Enclosure

State of Maine Lead Abatement Program

Deborah A. Kasik

Risk Assessor Cert No. LR-0003 Trn.Exp.Date 01/05/2024

Expiration Date 01/05/2024 This is not a legal form of official identification



PRESQUE ISLE 1235 CENTRAL DRIVE, SKYWAY PARK PRESQUE ISLE, MAINE 04679-2094 (207) 822-6300 FAX: (207) 822-6303 (207) 764-0477 FAX: (207) 760-3143

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

BANGOR 106 HOGAN ROAD, SUITE 6 BANGOR, MAINE 04404 (207) 941 4570 FAX: (207) 941-4584

web site www.maine.gov/dep



### **APPENDIX B**

ASBESTOS ANALYTICAL LABORATORY CERTIFICATIONS



MELANIE LOYZIM Commissioner

September 14, 2022

Attn: Lorie Dennis, Quality Assurance Administrative Assistant EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

Dear Ms. Dennis,

This is to confirm that the Maine Department of Environmental Protection is in receipt of your request to add the following labs to your licensing of Analytical Laboratories: Boston, MA., South Portland, Maine and Wallingford, CT.

LA-0038 for Asbestos Analytical Laboratory (Air), expires on 10/31/2023 LB-0039 for Asbestos Analytical Laboratory (Bulk), expires on 10/31/2023

Remember each laboratory must have certified individual(s) within the lab to perform analyses.

If you need any further assistance please feel free to contact me at (207) 242-0877 or e-mail at <u>sandy.j.moody@maine.gov</u>.

Sincerely,

- d af moody

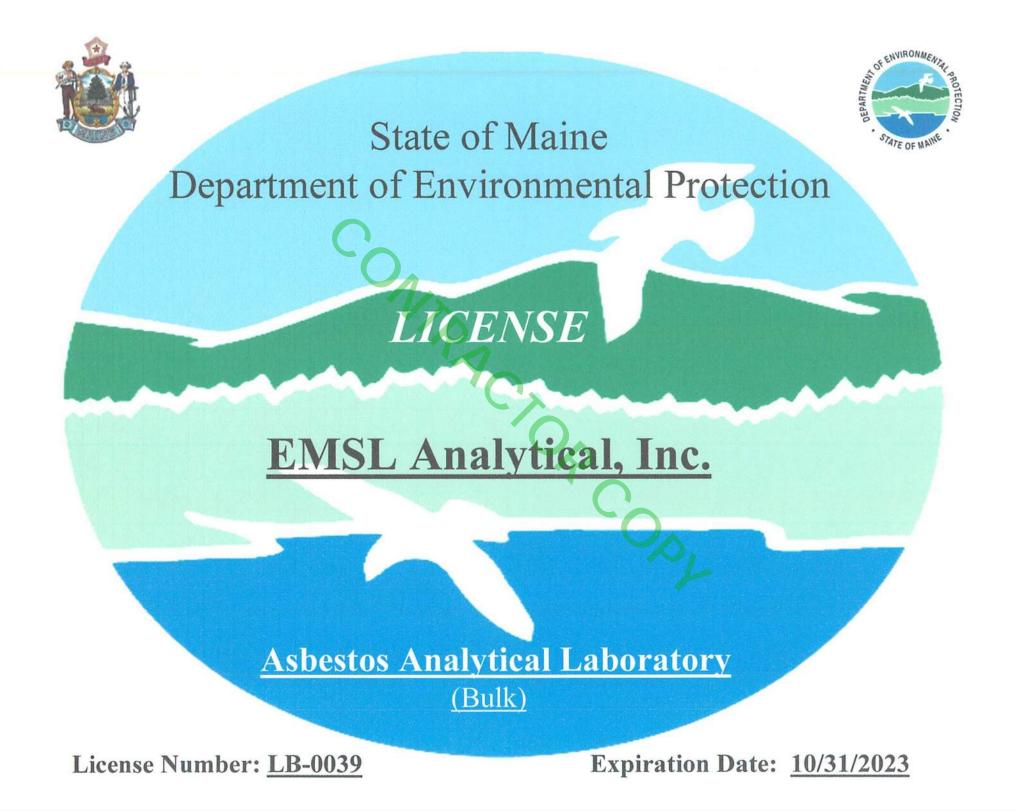
Sandra J. Moody, Environmental Specialist Division of Remediation Bureau of Remediation and Waste Management

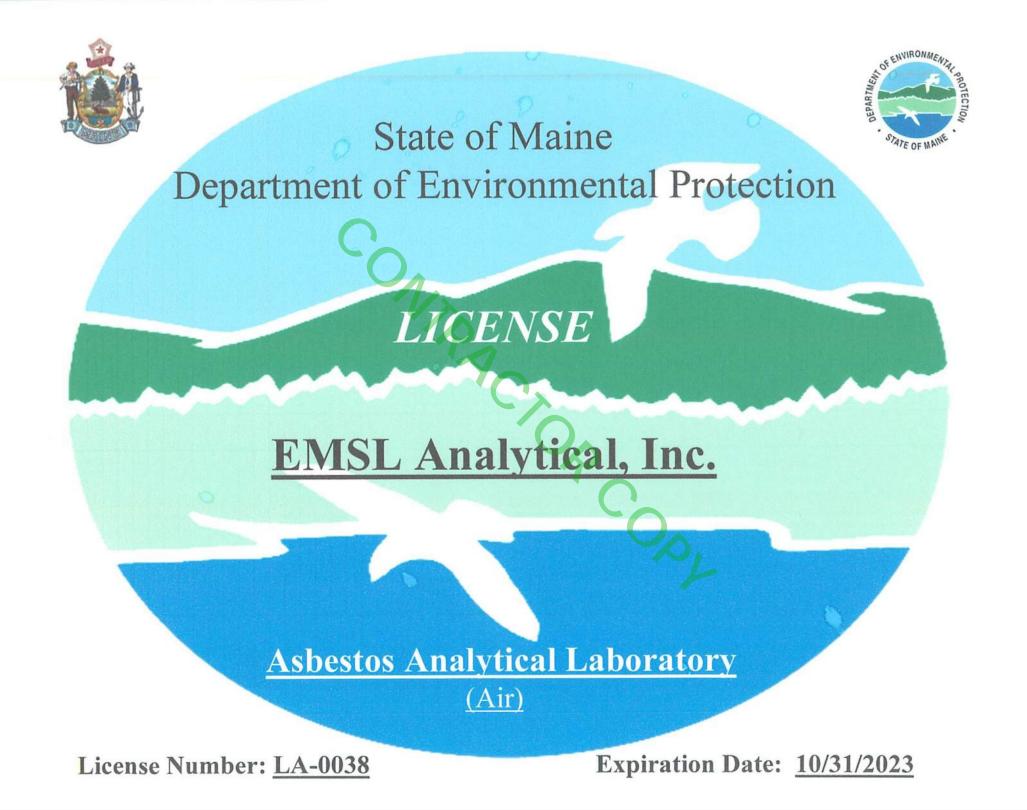
AUGUSTA 17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017 (207) 287-7688 FAX: (207) 287-7826 RAY BLDG., HOSPITAL ST.

BANGOR 106 HOGAN ROAD, SUITE 6 BANGOR, MAINE 04401 (207) 941-4570 FAX: (207) 941-4584 PORTLAND 312 CANCO ROAD PORTLAND, MAINE 04103 (207) 822-6300 FAX: (207) 822-6303

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



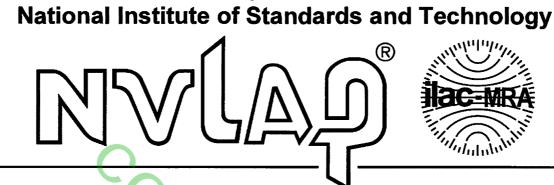


### S. PORTLAND - INDIVIDUAL ANALYST CERTIFICATIONS

### **State of Maine**

May 12, 2023

| Employee Name  | Lab<br>Location | State<br>Certified | Certification No. | Type of Cert.         | Exp. Date  |
|----------------|-----------------|--------------------|-------------------|-----------------------|------------|
| Stephen Severn | S. Portland     | Maine              | AA-0497           | Air Asbestos Analyst  | 11/30/2023 |
| Stephen Severn | S. Portland     | Maine BA-0178      |                   | Bulk Asbestos Analyst | 11/30/2023 |
| Stefan Reis    | S. Portland     | Maine              | BA-0233           | Bulk Asbestos Analyst | 5/31/2024  |
|                |                 |                    |                   |                       |            |



**United States Department of Commerce** 

## Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 500094-0

### **EMSL Analytical, Inc.** South Portland, ME

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

### Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-10-01 through 2023-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### **EMSL** Analytical, Inc.

161 John Roberts Road South Portland, ME 04106 Ms. Samantha Voigt Phone: 207-517-6921 Email: svoigt@emsl.com http://www.emsl.com

### ASBESTOS FIBER ANALYSIS

### NVLAP LAB CODE 500094-0

### **Bulk Asbestos Analysis**

| <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  |
| 18/A03      | EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials  |

### **Airborne Asbestos Analysis**

### <u>Code</u> <u>Description</u>

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

10L



### **APPENDIX C**

ASBESTOS LABORATORY ANALYTICAL RESULTS

|                       | <b>EMSL</b> Analytic          | al, Inc.            |                           |           |                 | SL Order ID:             | 622300938      |
|-----------------------|-------------------------------|---------------------|---------------------------|-----------|-----------------|--------------------------|----------------|
| EMSL                  | 161 John Roberts Road         | -                   | nd ME 04106               |           | -               | stomer ID:<br>stomer PO: | CESI62         |
|                       | Phone/Fax: (207) 517-69       |                     |                           |           | -               | ject ID:                 |                |
| 554                   | http://www.EMSL.com / j       |                     |                           |           | $\subseteq$     | <u>,</u>                 |                |
| Attn: Deb Kas         | ik                            |                     |                           | Phone:    | (207) 98        | 9-4824                   |                |
| Haley Wa              |                               |                     |                           | Fax:      | (207) 98        |                          |                |
| •                     | ant's Plaza                   |                     |                           | Collect   | ed:             |                          |                |
| 7th Floor             |                               |                     |                           | Receiv    |                 |                          |                |
| Bangor,               | ME 04401                      |                     |                           | Analyz    | ed: 9/05/202    | 3                        |                |
| <b>Proj:</b> 13150.00 | )7                            |                     |                           |           |                 |                          | )              |
|                       | Summa                         | ry Test Rep         | ort for Asbes             | tos Analy | vsis of Bulk Ma | terial                   |                |
| Client Sample ID:     | PH1-001A                      |                     |                           |           |                 | Lab Sample ID:           | 622300938-0001 |
| Sample Description:   | Boiler Rm/Ceiling Plaster - C | eiling Plaster      |                           |           |                 |                          |                |
| TEST                  | Analyzed<br>Date              | Color               | Non-Asbes<br>Fibrous Non- |           | Asbestos        | Comment                  |                |
| PLM                   | 8/28/2023                     | Gray/White          |                           | 00.0%     | None Detected   | Comment                  |                |
| Client Sample ID:     | PH1-001B                      |                     |                           | <u></u>   |                 | Lab Sample ID:           | 622300938-0002 |
| Sample Description:   | Boiler Rm/Ceiling Plaster - C | eiling Plaster      |                           |           |                 |                          |                |
|                       | Doner Hin/Ocining Plaster - O | ching r laster      |                           |           |                 |                          |                |
|                       | Analyzed                      |                     | Non-Asbes                 | stos      |                 |                          |                |
| TEST                  | Date                          | Color               | Fibrous Non-              |           | Asbestos        | Comment                  |                |
| PLM                   | 8/28/2023                     | Gray/White          | 0.0% 10                   | 00.0%     | None Detected   |                          |                |
| Client Sample ID:     | PH1-001C                      | -                   | r a                       |           |                 | Lab Sample ID:           | 622300938-0003 |
| Sample Description:   | Boiler Rm/Ceiling Plaster - C | eiling Plaster      |                           |           |                 |                          |                |
|                       | Analized                      |                     |                           | - 4       |                 |                          |                |
| TEST                  | Analyzed<br>Date              | Color               | Non-Asbes<br>Fibrous Non- |           | Asbestos        | Comment                  |                |
| PLM                   | 8/28/2023                     | Gray/White          |                           | 00.0%     | None Detected   |                          |                |
| Client Sample ID:     | PH1-002A                      |                     |                           |           |                 | Lab Sample ID:           | 622300938-0004 |
| Sample Description:   | Boiler Rm (Mezz)/Mud Fitting  | as - Mud Fitting    |                           |           |                 | -                        |                |
|                       |                               | , 5                 |                           |           |                 |                          |                |
|                       | Analyzed                      |                     | Non-Asbes                 | stos      | $\cap$          |                          |                |
| TEST                  | Date                          | Color               |                           | Fibrous   | Asbestos        | Comment                  |                |
| PLM                   | 8/28/2023                     | White               | 35.0%                     | 65.0%     | None Detected   |                          |                |
| Client Sample ID:     | PH1-002B                      |                     |                           |           |                 | Lab Sample ID:           | 622300938-0005 |
| Sample Description:   | Boiler Rm (Mezz)/Mud Fitting  | gs - Mud Fitting    |                           |           |                 |                          |                |
|                       | Analyzed                      |                     | Non-Asbes                 | stos      |                 |                          |                |
| TEST                  | Date                          | Color               | Fibrous Non-              |           | Asbestos        | Comment                  |                |
| PLM                   | 8/28/2023                     | White               | 40.0%                     | 60.0%     | None Detected   |                          |                |
| Client Sample ID:     | PH1-002C                      |                     |                           |           |                 | Lab Sample ID:           | 622300938-0006 |
| Sample Description:   | Boiler Rm (Mezz)/Mud Fitting  | gs - Mud Fitting    |                           |           |                 |                          |                |
|                       |                               |                     |                           |           |                 |                          |                |
|                       | Analyzed                      |                     | Non-Asbes                 |           |                 | _                        |                |
| TEST                  | Date                          | Color               | Fibrous Non-              |           | Asbestos        | Comment                  |                |
| PLM                   | 8/28/2023                     | Gray/White          | 0.0%                      | 50.0%     | 50% Chrysotile  |                          |                |
| Client Sample ID:     | PH1-003A                      |                     |                           |           |                 | Lab Sample ID:           | 622300938-0007 |
| Sample Description:   | Boiler Rm (Mezz)/Pipe Insula  | ation - Pipe Insula | ation                     |           |                 |                          |                |
|                       | Analyzed                      |                     | Non-Asbes                 | stos      |                 |                          |                |
| TEST                  | Date                          | Color               | Fibrous Non-              |           | Asbestos        | Comment                  |                |
| PLM                   | 8/29/2023                     | Gray                | 0.0%                      | 88.0%     | 12% Amosite     |                          |                |
|                       |                               |                     |                           |           |                 |                          |                |



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| o::  |   | <b>7</b> 1   |               |   | lysis of Bulk Ma                               |  | 600000000000000000000000000000000000000 |
|--|---|--|---------------|---|--|--|---|
| Client Sample ID:  | PH1-003B  |  |               |   |  | Lab Sample ID:   | 622300938-0008                          |
| Sample Description:  | Boiler Rm (Mezz)/Pipe Ir  | sulation   |               |   |  |  |   |
|  | Analyzed  |  | Non-A         | sbestos   |  |  |   |
| TEST   | Date  | Color  | Fibrous       | Non-Fibrous   | Asbestos                                       | Comment  |   |
| PLM  | 8/29/2023   |  |               | Positiv   | /e Stop (Not Analyzed)                         |  |   |
| Client Sample ID:  | PH1-003C  |  |               |   |  | Lab Sample ID:   | 622300938-0009                          |
| Sample Description:  | Boiler Rm (Mezz)/Pipe Ir  | sulation   |               |   |  |  |   |
|  | Analyzed  |  |               | Asbestos  |  |  |   |
| TEST   | Date  | Color  | Fibrous       | Non-Fibrous   | Asbestos                                       | Comment  |   |
| PLM  | 8/29/2023   |  |               | Positiv   | ve Stop (Not Analyzed)                         |  |   |
| Client Sample ID:  | PH1-004A  |  |               |   |  | Lab Sample ID:   | 622300938-0010                          |
| Sample Description:  | Boiler Rm (Mezz)/Mud F  | itting - Mud Fitting   |               |   |  |  |   |
|  | Analyzed  |  | Non-A         | sbestos   |  |  |   |
| TEST   | Date  | Color  | Fibrous       | Non-Fibrous   | Asbestos                                       | Comment  |   |
| PLM  | 8/29/2023   | Brown/Tan/White  | 70.0%         | 30.0%   | None Detected                                  |  |   |
| Client Sample ID:  | PH1-004B  |  |               |   |  | Lab Sample ID:   | 622300938-0011                          |
| Sample Description:  | Boiler Rm (Mezz)/Mud F  | itting - Mud Fitting   |               |   |  |  |   |
|  |   |  |               |   |  |  |   |
|  | Analyzed  |  |               | sbestos   |  | <b>_</b>   |   |
| TEST   | Date  | Color  |               | Non-Fibrous   | Asbestos                                       | Comment  |   |
| PLM  | 8/29/2023   | Brown/White  | 18.0%         | 82.0%   | None Detected                                  |  |   |
| Client Sample ID:  | PH1-004C  |  |               |   |  | Lab Sample ID:   | 622300938-0012                          |
| Sample Description:  | Boiler Rm (Mezz)/Mud Fitting - Mud Fitting  |  |               |   |  |  |   |
|  |   |  |               |   |  |  |   |
|  | Analyzed  |  | Non-A         | Asbestos  |  |  |   |
| TEST   | Analyzed<br>Date  | Color  |               | Asbestos<br>Non-Fibrous   | Asbestos                                       | Comment  |   |
|  | -   | Color<br>Brown/Gray/White  |               |   | Asbestos<br>None Detected                      | Comment  |   |
|  | Date  |  | Fibrous       | Non-Fibrous   |  | Comment  | 622300938-0013                          |
| PLM<br>Client Sample ID:   | Date<br>8/29/2023   | Brown/Gray/White   | Fibrous 70.0% | Non-Fibrous   |  |  | 622300938-0013                          |
| PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir   | Brown/Gray/White   | Fibrous 70.0% | Non-Fibrous<br>30.0%  |  |  | 622300938-0013                          |
| PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-005A   | Brown/Gray/White   | Fibrous 70.0% | Non-Fibrous   |  |  | 622300938-0013                          |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST  | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed   | Brown/Gray/White   | Fibrous 70.0% | Non-Fibrous<br>30.0%  | None Detected                                  | Lab Sample ID:   | 622300938-0013                          |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM   | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank In<br>Analyzed<br>Date<br>8/29/2023  | Brown/Gray/White<br>nsulation - Tank Insulati<br><b>Color</b>                  | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous                                     | None Detected Asbestos                         | Lab Sample ID:   |   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:  | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023<br>PH1-005B  | Brown/Gray/White<br>nsulation - Tank Insulati<br><b>Color</b><br>Gray/Orange   | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous                                     | None Detected Asbestos                         | Lab Sample ID:   | 622300938-0013<br>622300938-0014        |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:  | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank In<br>Analyzed<br>Date<br>8/29/2023  | Brown/Gray/White<br>nsulation - Tank Insulati<br><b>Color</b><br>Gray/Orange   | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous                                     | None Detected Asbestos                         | Lab Sample ID:   |   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:                                     | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023<br>PH1-005B<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed  | Brown/Gray/White<br>nsulation - Tank Insulati<br>Color<br>Gray/Orange          | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous<br>60.0%                            | None Detected Asbestos 40% Chrysotile          | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST                             | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023<br>PH1-005B<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date  | Brown/Gray/White<br>nsulation - Tank Insulati<br><b>Color</b><br>Gray/Orange   | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous<br>60.0%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos 40% Chrysotile Asbestos | Lab Sample ID:   |   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST                             | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023<br>PH1-005B<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed  | Brown/Gray/White<br>nsulation - Tank Insulati<br>Color<br>Gray/Orange          | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous<br>60.0%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos 40% Chrysotile          | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM                      | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023<br>PH1-005B<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date  | Brown/Gray/White<br>nsulation - Tank Insulati<br>Color<br>Gray/Orange          | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous<br>60.0%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos 40% Chrysotile Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM                      | Date<br>8/29/2023<br>PH1-005A<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023<br>PH1-005B<br>Boiler Rm (Mezz)/Tank Ir<br>Analyzed<br>Date<br>8/29/2023   | Brown/Gray/White Insulation - Tank Insulati Color Gray/Orange Insulation Color | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous<br>60.0%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos 40% Chrysotile Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0014                          |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID: | Date           8/29/2023           PH1-005A           Boiler Rm (Mezz)/Tank Ir           Analyzed           Date           8/29/2023           PH1-005B           Boiler Rm (Mezz)/Tank Ir           Analyzed           Date           8/29/2023           PH1-005B           Boiler Rm (Mezz)/Tank Ir           Analyzed           Date           Boiler Rm (Mezz)/Tank Ir           Analyzed           Date           PH1-005B           PH1-005C | Brown/Gray/White Insulation - Tank Insulati Color Gray/Orange Insulation Color | Fibrous 70.0% | Non-Fibrous<br>30.0%<br>Asbestos<br>Non-Fibrous<br>60.0%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos 40% Chrysotile Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0014                          |

Positive Stop (Not Analyzed)

#### Test Report:EPAMultiTests-7.32.2.D Printed: 9/05/2023 03:23PM

8/29/2023

PLM



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#### Summary Test Report for Asbestos Analysis of Bulk Material

| Oliant 0                    | BUIL OOCA                   |                     |              |                          | -             | Lab Comerto 10 | 622200020 0040 |
|-----------------------------|-----------------------------|---------------------|--------------|--------------------------|---------------|----------------|----------------|
| Client Sample ID:           | PH1-006A                    |                     |              |                          |               | Lab Sample ID: | 622300938-0016 |
| Sample Description:         | PH1-1st Security/12" Orange | e Mottled - Floor   | File         |                          |               |                |                |
|                             |                             |                     |              | A . I                    |               |                |                |
| TEST                        | Analyzed<br>Date            | Color               |              | -Asbestos<br>Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction         | 8/30/2023                   | Red                 | 0.0%         | 100%                     | None Detected | Comment        |                |
|                             |                             | INEQ                | 0.070        | 10076                    |               |                |                |
| Client Sample ID:           | PH1-006B                    |                     |              |                          |               | Lab Sample ID: | 622300938-0017 |
| Sample Description:         | PH1-1st Security/12" Orange | e Mottled - Floor   | File         |                          |               |                |                |
|                             |                             |                     |              |                          |               |                |                |
|                             | Analyzed                    | 0.1                 |              | -Asbestos                | A . I         | 0              |                |
| TEST<br>PLM Grav. Reduction | Date                        | Color<br>Red        |              | Non-Fibrous              | Asbestos      | Comment        |                |
| LIVI Grav. Reduction        | 8/30/2023                   | Rea                 | 0.0%         | 100%                     | None Detected |                |                |
| Client Sample ID:           | PH1-006C                    |                     |              |                          |               | Lab Sample ID: | 622300938-0018 |
| Sample Description:         | PH1-1st Security/12" Orange | e Mottled - Floor 7 | File         |                          |               |                |                |
|                             |                             |                     |              |                          |               |                |                |
|                             | Analyzed                    |                     |              | -Asbestos                |               |                |                |
| TEST                        | Date                        | Color               |              | Non-Fibrous              | Asbestos      | Comment        |                |
| PLM Grav. Reduction         | 8/30/2023                   | Red                 | 0.0%         | 100%                     | None Detected |                |                |
| Client Sample ID:           | PH1-007A                    |                     | $\mathbf{O}$ |                          |               | Lab Sample ID: | 622300938-0019 |
| Sample Description:         | PH1-1st Security/Brown/Blac | ck Adh - Adhesive   |              |                          |               |                |                |
|                             |                             |                     |              |                          |               |                |                |
|                             | Analyzed                    |                     | Non          | -Asbestos                |               |                |                |
| TEST                        | Date                        | Color               | Fibrous      | Non-Fibrous              | Asbestos      | Comment        |                |
| PLM Grav. Reduction         | 8/30/2023                   | Brown               | 0.0%         | 100%                     | None Detected |                |                |
| Client Sample ID:           | PH1-007B                    |                     |              |                          |               | Lab Sample ID: | 622300938-0020 |
| Sample Description:         | PH1-1st Security/Brown/Blac | ck Adh - Adhesive   | 9            |                          |               |                |                |
|                             | ,                           |                     |              |                          |               |                |                |
|                             | Analyzed                    |                     | Non          | -Asbestos                |               |                |                |
| TEST                        | Date                        | Color               | Fibrous      | Non-Fibrous              | Asbestos      | Comment        |                |
| PLM Grav. Reduction         | 8/30/2023                   | Brown               | 0.0%         | 100%                     | None Detected |                |                |
| Client Sample ID:           | PH1-007C                    |                     |              |                          |               | Lab Sample ID: | 622300938-0021 |
| Sample Description:         | PH1-1st Security/Brown/Blac | k Adh - Adhesive    | 2            |                          |               |                |                |
|                             |                             |                     |              |                          |               |                |                |
|                             | Analyzed                    |                     | Non          | -Asbestos                |               |                |                |
| TEST                        | Date                        | Color               | Fibrous      | Non-Fibrous              | Asbestos      | Comment        |                |
| PLM Grav. Reduction         | 8/30/2023                   | Brown               | 0.0%         | 100%                     | None Detected |                |                |
| Client Sample ID:           | PH1-008A                    |                     |              |                          |               | Lab Sample ID: | 622300938-0022 |
| Sample Description:         |                             | inholo Croove       | oiling Tile  |                          |               |                |                |
| campic Description.         | PH1-1st Security/CT1 4x2 Pi |                     |              |                          |               |                |                |
|                             | Analyzed                    |                     | Non          | -Asbestos                |               |                |                |
| TEST                        | Date                        | Color               |              | Non-Fibrous              | Asbestos      | Comment        |                |
| PLM                         | 8/29/2023                   | Gray/White          | 70.0%        | 30.0%                    | None Detected |                |                |
|                             |                             |                     |              |                          | ·····         | Lab Sample ID: | 622300938-0023 |
| Client Sample ID:           | PH1-008B                    |                     |              |                          |               | Lan Sample ID: | 022300330-0023 |
| Sample Description:         | PH1-1st Security/CT1t 4x2 P | Pinhole Groove - (  | Ceiling Tile |                          |               |                |                |
|                             |                             |                     |              | Ashasti                  |               |                |                |
| теет                        | Analyzed                    | Color               |              | -Asbestos                | Ashaataa      | Comment        |                |
| TEST                        | Date                        | Color               |              | Non-Fibrous              | Asbestos      | Comment        |                |
| PLM                         | 8/29/2023                   | Gray/Tan            | 80.0%        | 20.0%                    | None Detected |                |                |



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#### Summary Test Report for Asbestos Analysis of Bulk Material Lab Sample ID: 622300938-0024 Client Sample ID: PH1-008C Sample Description: PH1-1st Security/CT1 4x2 Pinhole Groove - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray/Tan 75.0% 25.0% None Detected Client Sample ID: PH1-008D Lab Sample ID: 622300938-0025 Sample Description: 2nd Floor by Bedroom 203/CT1 - Ceiling Tile Analyzed Non-Asbestos TEST Date Non-Fibrous Comment Color Fibrous Asbestos PLM 8/29/2023 Brown/Gray/White 70.0% 30.0% None Detected Client Sample ID: PH1-009A Lab Sample ID: 622300938-0026 Sample Description: Quarter Deck by Security/CT2 2x2 Pinhole - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray/White 55.0% 45.0% None Detected Lab Sample ID: 622300938-0027 Client Sample ID: PH1-009B Sample Description: Quarter Deck by Security/CT2 2x2 Pinhole - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray/White 55.0% 45.0% None Detected 622300938-0028 Lab Sample ID: Client Sample ID: PH1-009C Sample Description: Quarter Deck by Security/CT2 2x2 Pinhole - Ceiling Tile Analyzed Non-Asbestos TEST Non-Fibrous Asbestos Comment Date Color Fibrous PLM Gray/White None Detected 8/29/2023 68.0% 32.0% 622300938-0029 Lab Sample ID: Client Sample ID: PH1-010A Sample Description: Hallway by Security/CT3 2x2 Text w/ Pinhole - Ceiling Tile Non-Asbestos Analyzed TEST Fibrous Non-Fibrous Date Comment Color Asbestos PLM 8/29/2023 Gray/White 65.0% 35.0% None Detected 622300938-0030 PH1-010B Lab Sample ID: Client Sample ID: Sample Description: Hallway by Security/CT3 2x2 Text w/ Pinhole - Ceiling Tile Analyzed Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos PLM 8/29/2023 42.0% Gray/White 58.0% None Detected Lab Sample ID: 622300938-0031 PH1-010C Client Sample ID: Sample Description: Hallway by Security/CT3 2x2 Text w/ Pinhole - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray/White 50.0% 50.0% None Detected



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#### Summary Test Report for Asbestos Analysis of Bulk Material Lab Sample ID: 622300938-0032 Client Sample ID: PH1-010D Sample Description: 2nd Floor by Bedroom 203/CT3 - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray/Tan/White 45.0% 55.0% None Detected Client Sample ID: PH1-011A Lab Sample ID: 622300938-0033 Sample Description: Bathroom by Security/CT4 2x2 Pinhole Groove - Ceiling Tile Analyzed Non-Asbestos TEST Date Non-Fibrous Comment Color Fibrous Asbestos PLM 8/29/2023 Brown/White 80.0% 20.0% None Detected Client Sample ID: PH1-011B Lab Sample ID: 622300938-0034 Sample Description: Bathroom by Security/CT4 2x2 Pinhole Groove - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Brown/Gray/White 55.0% 45.0% None Detected Lab Sample ID: 622300938-0035 Client Sample ID: PH1-011C Sample Description: Bathroom by Security/CT4 2x2 Pinhole Groove - Ceiling Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Brown/Gray/White 60.0% 40.0% None Detected Lab Sample ID: 622300938-0036 Client Sample ID: PH1-012A Sample Description: Bathroom by Security/Mudded Fitting - Mud Fitting Analyzed Non-Asbestos TEST Non-Fibrous Asbestos Comment Date Color Fibrous PLM 8/29/2023 Brown/Grav 40.0% 52.0% 8% Chrysotile 622300938-0037 Lab Sample ID: Client Sample ID: PH1-012B Sample Description: Anchor Lounge/Mudded Fitting - Mud Fitting Non-Asbestos Analyzed TEST Fibrous Non-Fibrous Asbestos Date Comment Color PLM 9/05/2023 40.0% 54.0% Gray 6% Chrysotile 622300938-0038 PH1-012C Lab Sample ID: Client Sample ID: Sample Description: Janitor/Mudded Fitting - Mud Fitting Analyzed Non-Asbestos Comment TEST Date Color Fibrous Non-Fibrous Asbestos PLM 9/05/2023 Gray/Tan 60.0% 30.0% 10% Chrysotile Lab Sample ID: 622300938-0039 PH1-012D Client Sample ID: Sample Description: Bath T208/Mudded Fitting - Mud Fitting Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 9/05/2023 Gray 60.0% 35.0% 5% Chrysotile



Client Sample ID:

TEST

TEST

PLM

PLM

PH1-012E

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Lab Sample ID:

622300938-0040

#### Sample Description: Bath T214/Mudded Fitting - Mud Fitting Analyzed Non-Asbestos Date Color Fibrous Non-Fibrous Asbestos Comment 8/29/2023 Brown/Gray 50.0% 45.0% 5% Chrysotile Client Sample ID: PH1-012F Lab Sample ID: 622300938-0041 Sample Description: Bath T214/Mudded Fitting - Mud Fitting Analyzed Non-Asbestos Date Color Fibrous Non-Fibrous Asbestos Comment 9/05/2023 Gray/White 40.0% 57.0% 3% Chrysotile 622300938-0042 Client Sample ID: PH3-012G Lab Sample ID: Sample Description: Outside 4th Laundry by 490/Mudded Fitting - Mud Fitting Anah Non-Ashestos

Summary Test Report for Asbestos Analysis of Bulk Material

|                     |             | Analyzed        |                         | Non       | -Asbestos   |               |                |                |
|---------------------|-------------|-----------------|-------------------------|-----------|-------------|---------------|----------------|----------------|
| TEST                |             | Date            | Color                   | Fibrous   | Non-Fibrous | Asbestos      | Comment        |                |
| PLM                 |             | 3/29/2023       | Gray/Tan/White          | 55.0%     | 45.0%       | None Detected |                |                |
| Client Sample ID:   | PH3-012H    |                 |                         |           |             |               | Lab Sample ID: | 622300938-0043 |
| Sample Description: | Outside 4th | Laundry by 4    | 90/Mudded Fitting - Mu  | d Fitting |             |               |                |                |
|                     |             | Analyzed        |                         | Non       | -Asbestos   |               |                |                |
| TEST                |             | Date            | Color                   | Fibrous   | Non-Fibrous | Asbestos      | Comment        |                |
| PLM                 | 8           | 8/29/2023       | Gray                    | 43.0%     | 57.0%       | None Detected |                |                |
| Client Sample ID:   | PH2-012I    |                 |                         |           |             |               | Lab Sample ID: | 622300938-0044 |
| Sample Description: | S102/Mudd   | ed Fitting - Mu | ud Fitting              |           |             | <b>)</b>      |                |                |
|                     |             | Analyzed        |                         | Non       | -Asbestos   |               |                |                |
| TEST                |             | Date            | Color                   | Fibrous   | Non-Fibrous | Asbestos      | Comment        |                |
| PLM                 |             | 3/29/2023       | Gray/Black              | 60.0%     | 40.0%       | None Detected |                |                |
| lient Sample ID:    | PH2-012J    |                 |                         |           |             |               | Lab Sample ID: | 622300938-0045 |
| Sample Description: | Rifle Range | /Mudded Fittir  | ng - Mud Fitting        |           |             |               |                |                |
|                     |             | Analyzed        |                         | Non       | -Asbestos   |               |                |                |
| TEST                |             | Date            | Color                   | Fibrous   | Non-Fibrous | Asbestos      | Comment        |                |
| PLM                 | 8           | 3/29/2023       | Brown/Gray              | 50.0%     | 50.0%       | None Detected |                |                |
| Client Sample ID:   | PH1-013A    |                 |                         |           |             |               | Lab Sample ID: | 622300938-0046 |
| Sample Description: | Storage by  | Security/Carp   | et Mastic - Carpet Mast | ic        |             |               |                |                |

|                     | Analyzed                |                     | Non        | -Asbestos   |               |                |                |
|---------------------|-------------------------|---------------------|------------|-------------|---------------|----------------|----------------|
| TEST                | Date                    | Color               | Fibrous    | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 8/30/2023               | Yellow              | 0.0%       | 100%        | None Detected |                |                |
| Client Sample ID:   | PH1-013B                |                     |            |             |               | Lab Sample ID: | 622300938-0047 |
| Sample Description: | Conference Room F114/Ca | arpet Mastic - Carp | oet Mastic |             |               |                |                |
|                     | Analyzed                |                     | Non        | -Asbestos   |               |                |                |
| TEST                | Date                    | Color               | Fibrous    | Non-Fibrous | Asbestos      | Comment        |                |

0.0%

100%

None Detected

PLM Grav. Reduction

8/30/2023

Yellow



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| Client Sample ID:  | PH1-013C  |   |  |  | Lab Sample ID:  | 622300938-0048                   |
|--|---|---|--|--|---|----------------------------------|
| Sample Description:  | Housekeeping B64/Car  | pet Mastic - Carpet Mas   | tic  |  |   |                                  |
|  | Analyzed  |   | Non-Asbestos   |  |   |                                  |
| TEST   | Date  | Color   | Fibrous Non-Fibrous  | Asbestos   | Comment   |                                  |
| PLM Grav. Reduction  | 8/30/2023   | Yellow  | 0.0% 100%  | None Detected  |   |                                  |
| Client Sample ID:  | PH1-013D  |   |  |  | Lab Sample ID:  | 622300938-0049                   |
| Sample Description:  | R204/Carpet Adhesive -  | Carpet Mastic   |  |  |   |                                  |
|  | Analyzed  |   | Non-Asbestos   |  |   |                                  |
| TEST   | Date  | Color   | Fibrous Non-Fibrous  | Asbestos   | Comment   |                                  |
| PLM Grav. Reduction  | 8/30/2023   | Yellow  | 0.0% 100%  | None Detected  |   |                                  |
| Client Sample ID:  | PH1-014A  |   |  |  | Lab Sample ID:  | 622300938-0050                   |
| Sample Description:  | Conference Room F114  | /2x2 Phole CT - Ceiling   | Tile   |  |   |                                  |
|  | Analyzed  |   | Non-Asbestos   |  |   |                                  |
| TEST   | Date  | Color   | Fibrous Non-Fibrous  | Asbestos   | Comment   |                                  |
| PLM  | 8/29/2023   | Brown/Gray/White  | 45.0% 55.0%  | None Detected  |   |                                  |
| Client Sample ID:  | PH1-014B  |   |  |  | Lab Sample ID:  | 622300938-0051                   |
| Sample Description:  | Conference Room F114  | /2x2 Phole CT - Ceiling   | Tile   |  |   |                                  |
|  | Austral   |   | Non-Asbestos   |  |   |                                  |
|  | Anaivzed  |   |  |  |   |                                  |
| TEST   | Analyzed<br>Date  | Color   | Fibrous Non-Fibrous  | Asbestos   | Comment   |                                  |
|  |   | Color<br>Brown/Gray/White   |  | Asbestos<br>None Detected  | Comment   |                                  |
| PLM  | Date  |   | Fibrous Non-Fibrous  |  | Comment   | 622300938-0052                   |
| PLM<br>Client Sample ID:   | Date<br>8/29/2023   | Brown/Gray/White  | Fibrous         Non-Fibrous           40.0%         60.0%  |  |   | 622300938-0052                   |
| PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114   | Brown/Gray/White  | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Image: Constraint of the second sec |  |   | 622300938-0052                   |
| PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-014C   | Brown/Gray/White  | Fibrous         Non-Fibrous           40.0%         60.0%  |  |   | 622300938-0052                   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST  | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling                                       | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos  | None Detected  | Lab Sample ID:  | 622300938-0052                   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color                              | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous  | None Detected  | Lab Sample ID:  | 622300938-0052                   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:  | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023  | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color                              | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous  | None Detected  | Lab Sample ID:<br>Comment   |                                  |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:  | Date           8/29/2023           PH1-014C           Conference Room F114           Analyzed           Date           8/29/2023           PH1-014D   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color                              | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous  | None Detected  | Lab Sample ID:<br>Comment   |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:   | Date           8/29/2023           PH1-014C           Conference Room F114           Analyzed           Date           8/29/2023           PH1-014D   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color                              | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous  | None Detected  | Lab Sample ID:<br>Comment   |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color                              | Fibrous         Non-Fibrous           40.0%         60.0%           Tile         Non-Asbestos           Fibrous         Non-Fibrous           55.0%         45.0%  | None Detected  | Lab Sample ID:<br>Comment   |                                  |
| DELM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>DeLM<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White          | Fibrous         Non-Fibrous           40.0%         60.0%           Tile         Non-Asbestos           Fibrous         Non-Fibrous           55.0%         45.0%  | None Detected Asbestos None Detected                                 | Lab Sample ID:<br>Comment<br>Lab Sample ID:   |                                  |
| DELM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>DELM<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White          | Fibrous         Non-Fibrous           40.0%         60.0%           Tile         Non-Asbestos           Fibrous         Non-Fibrous           55.0%         45.0%  | None Detected Asbestos None Detected Asbestos                        | Lab Sample ID:<br>Comment<br>Lab Sample ID:   |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | FibrousNon-Fibrous40.0%60.0%TileNon-AsbestosFibrousNon-Fibrous55.0%45.0%Non-AsbestosFibrousNon-Fibrous   | None Detected Asbestos None Detected Asbestos                        | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment                              | 622300938-0053                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:  | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date<br>PH1-015A<br>Conference Room F114   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous       55.0%     45.0%       Non-Asbestos       Fibrous     Non-Fibrous       Sheetrock     Sheetrock   | None Detected Asbestos None Detected Asbestos                        | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment                              | 622300938-0053                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date<br>Date   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | FibrousNon-Fibrous40.0%60.0%TileNon-AsbestosFibrousNon-Fibrous55.0%45.0%Non-AsbestosFibrousNon-Fibrous   | None Detected Asbestos None Detected Asbestos                        | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment                              | 622300938-0053                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>Client Sample ID:<br>Sample Description:<br>TEST<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date<br>PH1-015A<br>Conference Room F114   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous       55.0%     45.0%       Sheetrock     Non-Fibrous  | None Detected Asbestos None Detected Asbestos Not Submitted          | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment<br>Lab Sample ID:            | 622300938-0053                   |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM   | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date<br>PH1-015A<br>Conference Room F114<br>Analyzed<br>Date   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous       55.0%     45.0%       Sheetrock     Non-Fibrous       Sheetrock     Non-Asbestos       Fibrous     Non-Fibrous   | None Detected Asbestos None Detected Asbestos Not Submitted Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment<br>Lab Sample ID:            | 622300938-0053                   |
| DLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>DLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>DLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>DLM<br>Client Sample ID:<br>Client Sample ID: | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date<br>PH1-015A<br>Conference Room F114<br>Analyzed<br>Date   | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | FibrousNon-Fibrous40.0%60.0%TileNon-AsbestosFibrousNon-Fibrous55.0%45.0%SheetrockNon-AsbestosFibrousNon-FibrousSheetrockNon-AsbestosFibrousNon-Fibrous11.0%89.0%   | None Detected Asbestos None Detected Asbestos Not Submitted Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0053<br>622300938-0054 |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>PLM<br>Client Sample ID:<br>Sample Description:  | Date<br>8/29/2023<br>PH1-014C<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-014D<br>By 243/2x2 Pin Groove<br>Analyzed<br>Date<br>PH1-015A<br>Conference Room F114<br>Analyzed<br>Date<br>8/29/2023<br>PH1-015B<br>Housekeeping B64 Abo  | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | Fibrous     Non-Fibrous       40.0%     60.0%       Tile     Non-Asbestos       Fibrous     Non-Fibrous       55.0%     45.0%   Sheetrock       Non-Asbestos       Fibrous     Non-Fibrous   Sheetrock       Non-Asbestos       Fibrous     Non-Fibrous   Sheetrock       Non-Asbestos   Fibrous       Non-Fibrous   | None Detected Asbestos None Detected Asbestos Not Submitted Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0053<br>622300938-0054 |
| PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM<br>Client Sample ID:                      | Date           8/29/2023           PH1-014C           Conference Room F114           Analyzed           Date           8/29/2023           PH1-014D           By 243/2x2 Pin Groove           Analyzed           Date           Conference Room F114           Analyzed           Date           PH1-014D           By 243/2x2 Pin Groove           Analyzed           Date           PH1-015A           Conference Room F114           Analyzed           Date           PH1-015A           Conference Room F114           Analyzed           Date           PH1-015A           Conference Room F114           Analyzed           Date           PH1-015A           Conference Room F114 | Brown/Gray/White<br>/2x2 Phole CT - Ceiling<br>Color<br>Brown/Gray/White<br>Color | FibrousNon-Fibrous40.0%60.0%TileNon-AsbestosFibrousNon-Fibrous55.0%45.0%SheetrockNon-AsbestosFibrousNon-FibrousSheetrockNon-AsbestosFibrousNon-Fibrous11.0%89.0%   | None Detected Asbestos None Detected Asbestos Not Submitted Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0053<br>622300938-0054 |



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| Oliant Community ID:  |  |                                     |  |  | -                                  | Lab Sampla ID:                       | 622200029 0056              |
|---|--|-------------------------------------|--|--|------------------------------------|--------------------------------------|-----------------------------|
| Client Sample ID:   | PH1-015C   |                                     |  |  |                                    | Lab Sample ID:                       | 622300938-0056              |
| Sample Description:   | Housekeeping B64 Above C   | T/Sheetrock - She                   | eetrock                                  |  |                                    |                                      |                             |
|   | Analyzad   |                                     | New                                      | Ashastas   |                                    |                                      |                             |
| TEST  | Analyzed<br>Date   | Color                               |  | Asbestos<br>Non-Fibrous                                      | Asbestos                           | Comment                              |                             |
| PLM   | 8/29/2023  |                                     | 19.0%                                    | 81.0%  |                                    | Comment                              |                             |
| F LIVI  | 0/29/2023  | Gray/Tan                            | 19.0%                                    | 01.0%  | None Detected                      |                                      |                             |
| Client Sample ID:   | PH1-016A   |                                     |  |  |                                    | Lab Sample ID:                       | 622300938-0057              |
| Sample Description:   | Storage S111/dk brown mot  | led FT - Floor Tile                 |  |  |                                    |                                      |                             |
|   |  |                                     |  |  |                                    |                                      |                             |
| TEST  | Analyzed   | Color                               |  | Asbestos<br>Non-Fibrous                                      | Asbestos                           | Comment                              |                             |
| PLM Grav. Reduction   | Date<br>8/30/2023  | Color<br>Black                      | 0.0%                                     | 98.6%  | 1.4% Chrysotile                    | Comment                              |                             |
|   | 0/30/2023  |                                     | 0.070                                    | 90.070   | 1.4% Chrysolie                     |                                      | <u></u>                     |
| Client Sample ID:   | PH1-016B   |                                     |  |  |                                    | Lab Sample ID:                       | 622300938-0058              |
| Sample Description:   | Storage S111/dk brown mot  | led FT - Floor Tile                 |  |  |                                    |                                      |                             |
|   |  |                                     |  |  |                                    |                                      |                             |
|   | Analyzed   |                                     |  | Asbestos   |                                    | _                                    |                             |
| TEST  | Date   | Color                               | Fibrous                                  | Non-Fibrous  | Asbestos                           | Comment                              |                             |
| PLM Grav. Reduction   | 8/30/2023  |                                     | <u> </u>                                 | Positiv  | ve Stop (Not Analyzed)             |                                      |                             |
| Client Sample ID:   | PH1-016C   |                                     | 0  |  |                                    | Lab Sample ID:                       | 622300938-0059              |
| Sample Description:   | Storage S111/dk brown mot  | led FT - Floor Tile                 |  |  |                                    |                                      |                             |
|   |  |                                     |  |  |                                    |                                      |                             |
|   | Analyzed   |                                     | Non                                      | Asbestos   |                                    |                                      |                             |
| TEST  | Date   | Color                               | Fibrous                                  | Non-Fibrous  | Asbestos                           | Comment                              |                             |
| PLM Grav. Reduction   | 8/30/2023  |                                     |  | Positiv  | ve Stop (Not Analyzed)             |                                      |                             |
| Client Sample ID:   | PH1-017A   |                                     |  |  |                                    | Lab Sample ID:                       | 622300938-0060              |
| Sample Description:   | Storage S111/Mastic 016A -   | Mastic from Floor                   | Tile                                     |  | Α.                                 |                                      |                             |
|   |  |                                     |  |  |                                    |                                      |                             |
|   | Analyzed   |                                     | Non                                      | Asbestos   |                                    |                                      |                             |
| TEST  | Date   | Color                               | Fibrous                                  | Non-Fibrous  | Asbestos                           | Comment                              |                             |
| PLM Grav. Reduction   | 8/30/2023  | Black                               | 0.0%                                     | 95.3%  | 4.7% Chrysotile                    |                                      |                             |
| Client Sample ID:   | PH1-017B   |                                     |  |  |                                    |                                      | 622200028 0004              |
| Sample Description:   |  |                                     |  |  |                                    | Lab Sample ID:                       | 622300938-0061              |
|   | Storage S111/Mastic 016B -   | Mastic from Floor                   | Tile                                     |  |                                    | Lab Sample ID:                       | ७∠∠300938-0061              |
|   | Storage S111/Mastic 016B -   | Mastic from Floor                   | Tile                                     |  | 6                                  | Lab Sample ID:                       | 0223UU <del>3</del> 38-UU61 |
|   | -  | Mastic from Floor                   |  | Asbestos   | 00                                 | Lab Sample ID:                       | ©∠∠3UU¥38-UU61              |
| TEST  | Storage S111/Mastic 016B -<br>Analyzed<br>Date   | Mastic from Floor<br>Color          | Non                                      | Asbestos<br>Non-Fibrous                                      | Asbestos                           | Lab Sample ID:                       | ±22300938-0061              |
|   | Analyzed   |                                     | Non                                      | Non-Fibrous  | Asbestos<br>ve Stop (Not Analyzed) | L                                    | 0223UU938-UU61              |
| PLM Grav. Reduction   | Analyzed<br>Date<br>8/30/2023  |                                     | Non                                      | Non-Fibrous  |                                    | L                                    | 622300938-0061              |
| PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>8/30/2023<br>PH1-017C  | Color                               | Non<br>Fibrous                           | Non-Fibrous  |                                    | Comment                              |                             |
|   | Analyzed<br>Date<br>8/30/2023  | Color                               | Non<br>Fibrous                           | Non-Fibrous  |                                    | Comment                              |                             |
| PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -  | Color                               | Non<br>Fibrous                           | Non-Fibrous<br>Positiv                                       |                                    | Comment                              |                             |
| PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -<br>Analyzed  | Color<br>Mastic from Floor          | Non<br>Fibrous                           | Non-Fibrous<br>Positiv                                       |                                    | Comment                              |                             |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -  | Color                               | Non<br>Fibrous                           | Non-Fibrous<br>Positiv<br>Asbestos<br>Non-Fibrous            | ve Stop (Not Analyzed)             | Comment<br>Lab Sample ID:            |                             |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction                      | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -<br>Analyzed<br>Date<br>8/30/2023   | Color<br>Mastic from Floor          | Non<br>Fibrous                           | Non-Fibrous<br>Positiv<br>Asbestos<br>Non-Fibrous            | ve Stop (Not Analyzed)<br>Asbestos | Comment<br>Lab Sample ID:<br>Comment | 622300938-0062              |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -<br>Analyzed<br>Date<br>8/30/2023<br>PH1-018A                             | Color<br>Mastic from Floor<br>Color | Non<br>Fibrous                           | Non-Fibrous<br>Positiv<br>Asbestos<br>Non-Fibrous            | ve Stop (Not Analyzed)<br>Asbestos | Comment<br>Lab Sample ID:            |                             |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -<br>Analyzed<br>Date<br>8/30/2023   | Color<br>Mastic from Floor<br>Color | Non<br>Fibrous                           | Non-Fibrous<br>Positiv<br>Asbestos<br>Non-Fibrous            | ve Stop (Not Analyzed)<br>Asbestos | Comment<br>Lab Sample ID:<br>Comment | 622300938-0062              |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction                      | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -<br>Analyzed<br>Date<br>8/30/2023<br>PH1-018A<br>Room F112/Light Green Mo | Color<br>Mastic from Floor<br>Color | Non<br>Fibrous                           | Non-Fibrous<br>Positiv<br>Asbestos<br>Non-Fibrous<br>Positiv | ve Stop (Not Analyzed)<br>Asbestos | Comment<br>Lab Sample ID:<br>Comment | 622300938-0062              |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed<br>Date<br>8/30/2023<br>PH1-017C<br>Storage S111/Mastic 016C -<br>Analyzed<br>Date<br>8/30/2023<br>PH1-018A                             | Color<br>Mastic from Floor<br>Color | Non<br>Fibrous<br>Tile<br>Non<br>Fibrous | Non-Fibrous<br>Positiv<br>Asbestos<br>Non-Fibrous            | ve Stop (Not Analyzed)<br>Asbestos | Comment<br>Lab Sample ID:<br>Comment | 622300938-0062              |



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| Client Sample ID:   | PH1-018B   |   |  |  |                                      | Lab Sample ID:   | 622300938-0064                   |
|---|--|---|--|--|--------------------------------------|--|----------------------------------|
| Sample Description:   | Room F112/Light Green Mottle   | d FT - Floor Til                                    | е  |  |                                      |  |                                  |
|   | Analyzed   |   | Non-4  | Asbestos   |                                      |  |                                  |
| TEST  | Date   | Color   |  | Non-Fibrous  | Asbestos                             | Comment  |                                  |
| PLM Grav. Reduction   | 8/30/2023  | Green   | 0.0%   | 100%   | None Detected                        |  |                                  |
| Client Sample ID:   | PH1-018C   |   |  |  |                                      | Lab Sample ID:   | 622300938-0065                   |
| Sample Description:   | Room F112/Light Green Mottle   | d FT - Floor Til                                    | e  |  |                                      | Lub Gumple IB.   | 022000000-0000                   |
|   | Analyzed   |   | Non-A  | Asbestos   |                                      |  |                                  |
| TEST  | Date   | Color   | Fibrous  | Non-Fibrous  | Asbestos                             | Comment  |                                  |
| PLM Grav. Reduction   | 8/30/2023  | Green   | 0.0%   | 100%   | None Detected                        |  |                                  |
| Client Sample ID:   | PH1-019A   |   |  |  |                                      | Lab Sample ID:   | 622300938-0066                   |
| Sample Description:   | Room F112/Mastic 018A - Mas  | tic from Floor T                                    | īle  |  |                                      |  |                                  |
|   | Analyzed   | JA  | Non-A  | Asbestos   |                                      |  |                                  |
| TEST  | Date   | Color   | Fibrous  | Non-Fibrous  | Asbestos                             | Comment  |                                  |
| PLM Grav. Reduction   | 8/30/2023  | Various   | 0.0%   | 100%   | None Detected                        |  |                                  |
| Client Sample ID:   | PH1-019B   |   |  |  |                                      | Lab Sample ID:   | 622300938-0067                   |
| Sample Description:   | Room F112/Mastic 018B - Mas  | tic from Floor T                                    | Tile   |  |                                      |  |                                  |
| - •   |  |   |  |  |                                      |  |                                  |
|   | Analyzed   |   | Non-A  | Asbestos   |                                      |  |                                  |
| TEST  | Date   | Color   | Fibrous  | Non-Fibrous  | Asbestos                             | Comment  |                                  |
| PLM Grav. Reduction   | 8/30/2023  | Various   | 0.0%   | 100%   | None Detected                        |  |                                  |
| Client Sample ID:   | PH1-019C   |   |  |  |                                      | Lab Sample ID:   | 622300938-0068                   |
| Sample Description:   | Room F112/Mastic 018C - Mas  | tic from Floor <sup>1</sup>                         | File   |  |                                      | -  |                                  |
| ,   |  |   |  |  |                                      |  |                                  |
|   | Analyzed   |   | Non-A  | Asbestos   |                                      |  |                                  |
| TEST  |  |   |  |  |                                      |  |                                  |
|   | Date   | Color   | Fibrous  | Non-Fibrous  | Asbestos                             | Comment  |                                  |
| PLM Grav. Reduction   | Date<br>8/30/2023  | Color<br>Various                                    | Fibrous<br>0.0%  | 100%   | Asbestos<br>None Detected            | Comment  |                                  |
| PLM Grav. Reduction   | 8/30/2023  |   |  |  |                                      |  | 622300938-0069                   |
| Client Sample ID:   | 8/30/2023<br>PH1-020A  | Various   |  |  |                                      | Comment  | 622300938-0069                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | 8/30/2023  | Various   |  |  |                                      |  | 622300938-0069                   |
| Client Sample ID:   | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu   | Various   | 0.0%   | 100%   |                                      |  | 622300938-0069                   |
| Client Sample ID:<br>Sample Description:  | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed   | Various   | 0.0%   | 100%   |                                      |  | 622300938-0069                   |
| Client Sample ID:<br>Sample Description:<br>TEST  | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu   | Various   | 0.0%   | 100%   | None Detected                        | Lab Sample ID:   | 622300938-0069                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction   | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023  | Various<br>le<br>Color                              | 0.0%<br>Non-A<br>Fibrous                                     | 100%<br>Asbestos<br>Non-Fibrous                                    | None Detected                        | Lab Sample ID:<br>Comment                              |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B  | Various<br>le<br><b>Color</b><br>Tan                | 0.0%<br>Non-A<br>Fibrous                                     | 100%<br>Asbestos<br>Non-Fibrous                                    | None Detected                        | Lab Sample ID:   | 622300938-0069<br>622300938-0070 |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023  | Various<br>le<br><b>Color</b><br>Tan                | 0.0%<br>Non-A<br>Fibrous                                     | 100%<br>Asbestos<br>Non-Fibrous                                    | None Detected                        | Lab Sample ID:<br>Comment                              |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu   | Various<br>le<br><b>Color</b><br>Tan                | 0.0%<br>Non-4<br>Fibrous<br>0.0%                             | 100%<br>Asbestos<br>Non-Fibrous<br>100%                            | None Detected                        | Lab Sample ID:<br>Comment                              |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed   | Various<br>le<br>Color<br>Tan<br>le                 | 0.0%<br>Non-4<br>Fibrous<br>0.0%<br>Non-4                    | 100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos                | None Detected Asbestos None Detected | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date                                       | Various<br>le<br>Color<br>Tan<br>le<br>Color        | 0.0%<br>Non-/<br>Fibrous<br>0.0%<br>Non-/<br>Fibrous         | 100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos Asbestos      | Lab Sample ID:<br>Comment                              |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction                      | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023                          | Various<br>le<br>Color<br>Tan<br>le                 | 0.0%<br>Non-4<br>Fibrous<br>0.0%<br>Non-4                    | 100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos                | None Detected Asbestos None Detected | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0070                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date                                       | Various<br>le<br>Color<br>Tan<br>le<br>Color        | 0.0%<br>Non-/<br>Fibrous<br>0.0%<br>Non-/<br>Fibrous         | 100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos Asbestos      | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023                          | Various<br>le<br>Color<br>Tan<br>le<br>Color<br>Tan | 0.0%<br>Non-/<br>Fibrous<br>0.0%<br>Non-/<br>Fibrous         | 100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos Asbestos      | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0070                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>8/30/2023<br>PH1-020C<br>Rec Room/Wall Glue - Wall Glu | Various<br>le<br>Color<br>Tan<br>le<br>Color<br>Tan | 0.0%<br>Non-/<br>Fibrous<br>0.0%<br>Non-/<br>Fibrous<br>0.0% | 100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous | None Detected Asbestos Asbestos      | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0070                   |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | 8/30/2023<br>PH1-020A<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020B<br>Rec Room/Wall Glue - Wall Glu<br>Analyzed<br>Date<br>8/30/2023<br>PH1-020C              | Various<br>le<br>Color<br>Tan<br>le<br>Color<br>Tan | 0.0%<br>Non-/<br>Fibrous<br>0.0%<br>Non-/<br>Non-/           | 100%<br>Asbestos<br>Non-Fibrous<br>100%                            | None Detected Asbestos Asbestos      | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0070                   |



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|                             | Cullina                       | y icstric        |                 | bestos An               | alysis of Bulk Mu         | toniai          |                |
|-----------------------------|-------------------------------|------------------|-----------------|-------------------------|---------------------------|-----------------|----------------|
| Client Sample ID:           | PH1-021A                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0072 |
| Sample Description:         | Chapel/White 12x12 FT - Flo   | or Tile          |                 |                         |                           |                 |                |
|                             | A                             |                  |                 |                         |                           |                 |                |
| TEST                        | Analyzed<br>Date              | Color            |                 | Asbestos<br>Non-Fibrous | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 8/31/2023                     | White            | 0.0%            | 100%                    | None Detected             | Comment         |                |
|                             |                               |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0073 |
| Client Sample ID:           | PH1-021B                      | <b>-</b>         |                 |                         |                           | Lab Sample ID:  | 622300938-0073 |
| Sample Description:         | Chapel/White 12x12 FT - Flo   | or lile          |                 |                         |                           |                 |                |
|                             | Analyzed                      |                  | Non-A           | Asbestos                |                           |                 |                |
| TEST                        | Date                          | Color            |                 | Non-Fibrous             | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 8/31/2023                     | White            | 0.0%            | 100%                    | None Detected             |                 |                |
| Client Sample ID:           | PH1-021C                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0074 |
| Sample Description:         | Chapel/White 12x12 FT - Flo   | or Tile          |                 |                         |                           |                 |                |
|                             |                               |                  |                 |                         |                           |                 |                |
|                             | Analyzed                      |                  | Non-A           | Asbestos                |                           |                 |                |
| TEST                        | Date                          | Color            |                 | Non-Fibrous             | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 8/31/2023                     | White            | 0.0%            | 100%                    | None Detected             |                 |                |
| Client Sample ID:           | PH1-022A                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0075 |
| Sample Description:         | Chapel/Black 12x12 FT - Floo  | or Tile          |                 |                         |                           |                 |                |
|                             |                               |                  |                 |                         |                           |                 |                |
|                             | Analyzed                      | 0.1              |                 | Asbestos                | <b>•</b> • • • • • • •    | 0               |                |
| TEST<br>PLM Grav. Reduction | 8/31/2023                     | Color<br>Black   | Fibrous<br>0.0% | Non-Fibrous             | Asbestos<br>None Detected | Comment         |                |
|                             |                               | Didok            |                 |                         |                           | l ab Cample ID: | 622200028 0076 |
| Client Sample ID:           | PH1-022B                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0076 |
| Sample Description:         | Chapel/Black 12x12 FT - Floo  | or Tile          |                 |                         |                           |                 |                |
|                             | Analyzed                      |                  | Non-4           | Asbestos                |                           |                 |                |
| TEST                        | Date                          | Color            |                 | Non-Fibrous             | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 8/31/2023                     | Black            | 0.0%            | 100%                    | None Detected             |                 |                |
| Client Sample ID:           | PH1-022C                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0077 |
| Sample Description:         | Chapel/Black 12x12 FT - Ma    | tic from Floor T | īle             |                         |                           |                 |                |
|                             |                               |                  |                 |                         |                           |                 |                |
|                             | Analyzed                      |                  | Non-A           | Asbestos                |                           |                 |                |
| TEST                        | Date                          | Color            | Fibrous         | Non-Fibrous             | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 8/31/2023                     | Gray             | 0.0%            | 100%                    | None Detected             |                 |                |
| Client Sample ID:           | PH1-023A                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0078 |
| Sample Description:         | Chapel/Mastic 021A-022A - N   | lastic from Floo | or Tile         |                         |                           |                 |                |
|                             |                               |                  |                 |                         |                           |                 |                |
|                             | Analyzed                      |                  |                 | Asbestos                |                           | <b>_</b>        |                |
| TEST<br>PLM Grav. Reduction | Date<br>8/31/2023             | Color            | Fibrous         | Non-Fibrous             | Asbestos<br>None Detected | Comment         |                |
|                             |                               | Gray             | 0.0%            | 100%                    |                           |                 |                |
| Client Sample ID:           | PH1-023B                      |                  |                 |                         |                           | Lab Sample ID:  | 622300938-0079 |
| Sample Description:         | Chapel/Mastic 021B-022B - N   | lastic from Floo | or Tile         |                         |                           |                 |                |
|                             |                               |                  | Non             | Asbestos                |                           |                 |                |
|                             | Analyzad                      |                  | 11011-4         | 13063103                |                           |                 |                |
| TEST                        | Analyzed<br>Date              | Color            |                 | Non-Fibrous             | Asbestos                  | Comment         |                |
| TEST<br>PLM Grav. Reduction | Analyzed<br>Date<br>8/31/2023 | Color<br>Gray    |                 | Non-Fibrous<br>100%     | Asbestos<br>None Detected | Comment         |                |
|                             | Date                          |                  | Fibrous         |                         |                           | Comment         |                |



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#### Summary Test Report for Asbestos Analysis of Bulk Material Lab Sample ID: 622300938-0080 Client Sample ID: PH1-023C Sample Description: Chapel/Mastic 021C-022C - Mastic from Floor Tile Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM Grav. Reduction 8/31/2023 Gray 0.0% 100% None Detected Client Sample ID: PH1-024A Lab Sample ID: 622300938-0081 Sample Description: Exterior Chapel/Ceiling Exterior Skimcoat - Skimcoat Analyzed Non-Asbestos TEST Non-Fibrous Comment Date Color Fibrous Asbestos PLM 100.0% 8/29/2023 Gray/White 0.0% None Detected 622300938-0082 PH1-024B Lab Sample ID: Client Sample ID: Sample Description: Exterior Chapel/Ceiling Exterior Skimcoat - Skimcoat Analvzed Non-Asbestos Non-Fibrous Comment TEST Fibrous Date Color Asbestos PLM 8/29/2023 Gray/White 0.0% 100.0% None Detected Client Sample ID: PH1-024C Lab Sample ID: 622300938-0083 Sample Description: Exterior Chapel/Ceiling Exterior Skimcoat - Skim Coat Analyzed Non-Asbestos Fibrous Non-Fibrous Comment TEST Date Color Asbestos PLM 8/29/2023 Gray/White 0.0% 100.0% None Detected Lab Sample ID: 622300938-0084 Client Sample ID: PH1-025A Sample Description: Exterior Chapel/Column Skimcoat - Skimcoat Non-Asbestos Analyzed TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray 0.0% 100.0% None Detected Lab Sample ID: 622300938-0085 PH1-025B Client Sample ID: Sample Description: Exterior Chapel/Column Skimcoat - Skimcoat Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 92.0% None Detected Gray/Green 8.0% Lab Sample ID: 622300938-0086 Client Sample ID: PH1-025C Sample Description: Exterior Chapel/Column Skimcoat - Skimcoat Analyzed Non-Asbestos TEST Date Color Fibrous Non-Fibrous Asbestos Comment PLM 8/29/2023 Gray/Tan/Green 0.0% 100.0% None Detected PH1-026A Lab Sample ID: 622300938-0087 Client Sample ID: Sample Description: 2nd Floor by 206/Grey 12x12 FT - Floor Tile Analyzed Non-Asbestos TEST Fibrous Non-Fibrous Comment Date Color Asbestos PLM Grav. Reduction 8/31/2023 Gray 0.0% 100% None Detected



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| Client Sample ID:  | PH1-026B   |  |   |   |   | Lab Sample ID:   | 622300938-0088 |
|--|--|--|---|---|---|--|----------------|
| Sample Description:  | 3rd Floor by 306/Grey 12x12  | FT - Floor Tile  |   |   |   |  |                |
|  | Analyzed   |  | Non-  | Asbestos  |   |  |                |
| TEST   | Date   | Color  | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                |
| PLM Grav. Reduction  | 8/31/2023  | Gray   | 0.0%  | 100%  | None Detected                                 |  |                |
| Client Sample ID:  | PH1-026C   |  |   |   |   | Lab Sample ID:   | 622300938-0089 |
| Sample Description:  | 4th Floor by 406/Grey 12x12  | FT - Floor Tile  |   |   |   |  |                |
|  | Analyzed   |  | Non-  | Asbestos  |   |  |                |
| TEST   | Date   | Color  | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                |
| PLM Grav. Reduction  | 8/31/2023  | Gray   | 0.0%  | 100%  | None Detected                                 |  |                |
| Client Sample ID:  | PH1-027A   |  |   |   |   | Lab Sample ID:   | 622300938-0090 |
| Sample Description:  | 2nd Floor by 206/Mastic 26A  | - Mastic from Flo  | or Tile   |   |   |  |                |
|  | Analyzed   |  | Non-  | Asbestos  |   |  |                |
| TEST   | Date   | Color  | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                |
| PLM Grav. Reduction  | 8/31/2023  | Brown  | 0.0%  | 100%  | None Detected                                 | · · · · · · · · · · · · · · · · · · ·                  |                |
| Client Sample ID:  | PH1-027B   |  | $\mathbf{O}$  |   |   | Lab Sample ID:   | 622300938-0091 |
| Sample Description:  | 3rd Floor by 306/Mastic 26B  | - Mastic from Flo  | or Tile   |   |   |  |                |
|  |  |  |   |   |   |  |                |
|  | Analyzed   |  |   | Asbestos  |   |  |                |
| TEST   | Date   | Color  |   | Non-Fibrous   | Asbestos                                      | Comment  |                |
| LM Grav. Reduction   | 8/31/2023  | Brown  | 0.0%  | 100%  | None Detected                                 |  |                |
| Client Sample ID:  | PH1-027C   |  |   |   |   | Lab Sample ID:   | 622300938-0092 |
|  |  |  |   |   |   | -  |                |
| Sample Description:  | 4th Floor by 406/Mastic 26C  | - Mastic from Flo  | or Tile   |   |   | -  |                |
| Sample Description:  |  | - Mastic from Flo  |   |   | >   |  |                |
|  | Analyzed   |  | Non-  | Asbestos  |   | Commont  |                |
| TEST   | Analyzed<br>Date   | Color  | Non-<br>Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                |
| TEST<br>PLM Grav. Reduction  | Analyzed<br>Date<br>8/31/2023  |  | Non-  |   | Asbestos<br>None Detected                     |  | 622300039 0003 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:   | Analyzed<br>Date<br>8/31/2023<br>PH1-028A  | Color<br>Brown   | Non-<br>Fibrous   | Non-Fibrous   |   | Comment<br>Lab Sample ID:                              | 622300938-0093 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:   | Analyzed<br>Date<br>8/31/2023  | Color<br>Brown   | Non-<br>Fibrous   | Non-Fibrous   |   |  | 622300938-0093 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:   | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24   | Color<br>Brown   | Non-<br>Fibrous   | Non-Fibrous<br>100%   |   |  | 622300938-0093 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:  | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed   | Color<br>Brown<br>FT - Floor Tile  | Non-<br>Fibrous<br>0.0%<br>Non-                               | Non-Fibrous<br>100%<br>Asbestos   | None Detected                                 | Lab Sample ID:   | 622300938-0093 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST  | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24   | Color<br>Brown<br>FT - Floor Tile<br>Color   | Non-<br>Fibrous<br>0.0%<br>Non-                               | Non-Fibrous<br>100%   |   |  | 622300938-0093 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction   | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date<br>8/31/2023  | Color<br>Brown<br>FT - Floor Tile  | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous                    | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous  | None Detected                                 | Lab Sample ID:<br>Comment                              |                |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date<br>8/31/2023<br>PH1-028B  | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray                                     | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous                    | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous  | None Detected                                 | Lab Sample ID:   | 622300938-0093 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date<br>8/31/2023  | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray                                     | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous                    | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous  | None Detected                                 | Lab Sample ID:<br>Comment                              |                |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date<br>8/31/2023<br>PH1-028B  | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray                                     | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%            | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous  | None Detected                                 | Lab Sample ID:<br>Comment                              |                |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed           Date           8/31/2023           PH1-028A           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028B           Room 205/Grey Swirl 12x24  | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray                                     | Non-<br>Fibrous<br>Non-<br>Fibrous<br>0.0%                    | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100%                                    | None Detected                                 | Lab Sample ID:<br>Comment                              |                |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date<br>8/31/2023<br>PH1-028B<br>Room 205/Grey Swirl 12x24<br>Analyzed   | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray<br>FT - Floor Tile                  | Non-<br>Fibrous<br>Non-<br>Fibrous<br>0.0%                    | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos                        | None Detected Asbestos None Detected          | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction                      | Analyzed<br>Date<br>8/31/2023<br>PH1-028A<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date<br>8/31/2023<br>PH1-028B<br>Room 205/Grey Swirl 12x24<br>Analyzed<br>Date   | Color<br>Brown<br>FT - Floor Tile<br>Color<br>FT - Floor Tile<br>Color                 | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%<br>Fibrous | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed           Date           8/31/2023           PH1-028A           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028B           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023  | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray<br>FT - Floor Tile<br>Color<br>Gray | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%<br>Fibrous | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0094 |
| TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed           Date           8/31/2023           PH1-028A           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028B           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028B           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028C           Room 205/Grey Swirl 12x24                    | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray<br>FT - Floor Tile<br>Color<br>Gray | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%            | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0094 |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | Analyzed           Date           8/31/2023           PH1-028A           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028B           Room 205/Grey Swirl 12x24           PH1-028B           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028B           Room 205/Grey Swirl 12x24           Analyzed           Date           8/31/2023           PH1-028C | Color<br>Brown<br>FT - Floor Tile<br>Color<br>Gray<br>FT - Floor Tile<br>Color<br>Gray | Non-<br>Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%<br>Non-    | Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100%<br>Asbestos<br>Non-Fibrous<br>100% | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0094 |



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| Client Sample ID:           | PH1-029A                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0096 |
|-----------------------------|----------------------------------|------------------|---------|--------------------------|---------------------------------|----------------|----------------|
| Sample Description:         | Room 205/Mastic 028A - Mastic fr | om Floor Tile    |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
|                             | Analyzed                         |                  | Non     | -Asbestos                |                                 |                |                |
| TEST                        | Date                             | Color            | Fibrous | Non-Fibrous              | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         | 8/31/2023                        | fellow           | 0.0%    | 100%                     | None Detected                   |                |                |
| Client Sample ID:           | PH1-029B                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0097 |
| Sample Description:         | Room 205/Mastic 028B - Mastic fr | om Floor Tile    |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
|                             | Analyzed                         |                  | Non     | -Asbestos                |                                 |                |                |
| TEST                        | -                                | Color            | Fibrous | Non-Fibrous              | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         | 8/31/2023                        | fellow           | 0.0%    | 100%                     | None Detected                   |                |                |
| Client Sample ID:           | PH1-029C                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0098 |
| Sample Description:         | Room 205/Mastice 028C - Mastic   | from Electr Tile |         |                          |                                 |                |                |
| sumple Description.         | Room 203/Mastice 028C - Mastic   |                  |         |                          |                                 |                |                |
|                             | Analyzed                         |                  | Non     | -Asbestos                |                                 |                |                |
| TEST                        | -                                | Color            | Fibrous | Non-Fibrous              | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         |                                  | Yellow           | 0.0%    |                          | None Detected                   |                |                |
| Client Samela ID:           |                                  |                  |         |                          |                                 | Lab Sample ID: | 622300938-0099 |
| Client Sample ID:           | PH1-030A                         |                  |         |                          |                                 | Lab Sample ID. | 022300930-0099 |
| Sample Description:         | Room 212/Window Caulk - Caulk    |                  |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
| TEST                        | Analyzed<br>Date                 | Color            |         | -Asbestos<br>Non-Fibrous | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         | 8/31/2023                        | Gray             | 0.0%    |                          | 2.4% Chrysotile                 | Comment        |                |
|                             |                                  | Gluy             | 0.070   | 01.070                   | 2.470 Only30the                 |                |                |
| Client Sample ID:           | PH1-030B                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0100 |
| Sample Description:         | Room 353/Window Caulk - Caulk    |                  |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
| TEOT                        | Analyzed                         | 0                |         | -Asbestos                |                                 | Commont        |                |
| TEST<br>PLM Grav. Reduction | Date<br>8/31/2023                | Color            | Fibrous | Non-Fibrous              | Asbestos<br>Stop (Not Analyzed) | Comment        |                |
|                             | 6/31/2023                        |                  |         | FOSILIVE                 |                                 |                |                |
| Client Sample ID:           | PH1-030C                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0101 |
| Sample Description:         | Room 342/Window Caulk - Caulk    |                  |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
|                             | Analyzed                         |                  |         | -Asbestos                |                                 |                |                |
| TEST                        |                                  | Color            | Fibrous | Non-Fibrous              | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         | 8/31/2023                        |                  |         | Positive                 | Stop (Not Analyzed)             |                |                |
| Client Sample ID:           | PH1-031A                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0102 |
| Sample Description:         | Room 212/Window Glaze - Glaze    |                  |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
|                             | Analyzed                         |                  |         | -Asbestos                |                                 |                |                |
| TEST                        |                                  | Color            |         | Non-Fibrous              | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         | 8/31/2023                        | Gray             | 0.0%    | 100%                     | None Detected                   |                |                |
| Client Sample ID:           | PH1-031B                         |                  |         |                          |                                 | Lab Sample ID: | 622300938-0103 |
| Sample Description:         | Room 228/Window Glaze - Glaze    |                  |         |                          |                                 |                |                |
|                             |                                  |                  |         |                          |                                 |                |                |
|                             | Analyzed                         |                  | Non     | -Asbestos                |                                 |                |                |
| TEST                        |                                  | Color            | Fibrous | Non-Fibrous              | Asbestos                        | Comment        |                |
| PLM Grav. Reduction         | 8/31/2023                        | Gray             | 0.0%    | 99.6%                    | 0.35% Chrysotile                |                |                |



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| Client Sample ID:  | PH1-031C  |   |   |   |   | Lab Sample ID:   | 622300938-0104                   |
|--|---|---|---|---|---|--|----------------------------------|
| Sample Description:  | Room 329/Window Glaze - Gl  | aze   |   |   |   |  |                                  |
|  |   |   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | Asbestos  |   |  |                                  |
| TEST   | Date  | Color   |   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 8/31/2023   | Gray  | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH3-031D  |   |   |   |   | Lab Sample ID:   | 622300938-0105                   |
| Sample Description:  | Room 280/Window Glaze - Gl  | aze   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | Asbestos  |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 8/31/2023   | Gray  | 0.0%  | 100%  | <0.25% Chrysotile                             |  |                                  |
| Client Sample ID:  | PH3-031E  |   |   |   |   | Lab Sample ID:   | 622300938-0106                   |
| Sample Description:  | Room 391/Window Glaze - Gl  | aze   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | Asbestos  |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 8/31/2023   | Gray  | 0.0%  | 100%  | <0.25% Chrysotile                             |  |                                  |
| Client Sample ID:  | PH1-032A  |   |   |   |   | Lab Sample ID:   | 622300938-0107                   |
| Sample Description:  | By Room 230/Five Stop Caul  | c - Caulk   |   |   |   | -  |                                  |
|  | _,  |   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | Asbestos  |   |  |                                  |
| TEST   | Date  | Color   |   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023   | Red   | 0.74%   |   | None Detected                                 |  |                                  |
| Client Sample ID:  | PH1-032B  |   |   |   |   | Lab Sample ID:   | 622300938-0108                   |
| Sample Description:  | By Room 230/Five Stop Caul  | r - Caulk   |   |   |   |  |                                  |
| • •  |   |   |   |   |   |  |                                  |
|  | by Room 250/1 we blop badir   | - Odulk   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | Asbestos  | p   |  |                                  |
| TEST   |   | Color   | Non<br>Fibrous  | Asbestos<br>Non-Fibrous   | Asbestos                                      | Comment  |                                  |
|  | Analyzed  |   |   |   | Asbestos<br>None Detected                     | Comment  |                                  |
| PLM Grav. Reduction  | Analyzed<br>Date<br>9/01/2023   | Color   | Fibrous   | Non-Fibrous   |   | Comment<br>Lab Sample ID:                              | 622300938-0109                   |
| PLM Grav. Reduction<br>Client Sample ID:   | Analyzed<br>Date<br>9/01/2023<br>PH1-032C   | Color<br>Red  | Fibrous   | Non-Fibrous   |   |  | 622300938-0109                   |
| PLM Grav. Reduction<br>Client Sample ID:   | Analyzed<br>Date<br>9/01/2023   | Color<br>Red  | Fibrous   | Non-Fibrous   |   |  | 622300938-0109                   |
| PLM Grav. Reduction<br>Client Sample ID:   | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Cault  | Color<br>Red  | Fibrous   | Non-Fibrous   |   |  | 622300938-0109                   |
| PLM Grav. Reduction  | Analyzed<br>Date<br>9/01/2023<br>PH1-032C   | Color<br>Red  | Fibrous   | Non-Fibrous<br>99.1%  |   |  | 622300938-0109                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST  | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Cault<br>Analyzed  | Color<br>Red  | Fibrous<br>0.88%<br>Non   | Non-Fibrous<br>99.1%<br>Asbestos  | None Detected                                 | Lab Sample ID:   | 622300938-0109                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction   | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caule<br>Analyzed<br>Date<br>9/01/2023   | Color<br>Red<br>- Caulk<br>Color                                    | Fibrous<br>0.88%<br>Non<br>Fibrous                                    | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous   | None Detected Asbestos                        | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caul<br>Analyzed<br>Date<br>9/01/2023<br>PH1-033A  | Color<br>Red<br>c - Caulk<br>Color<br>Red                           | Fibrous<br>0.88%<br>Non<br>Fibrous                                    | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous   | None Detected Asbestos                        | Lab Sample ID:   | 622300938-0109<br>622300938-0110 |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caule<br>Analyzed<br>Date<br>9/01/2023   | Color<br>Red<br>c - Caulk<br>Color<br>Red                           | Fibrous<br>0.88%<br>Non<br>Fibrous                                    | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous   | None Detected Asbestos                        | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caul<br>Analyzed<br>Date<br>9/01/2023<br>PH1-033A<br>Room 234/Green Swirl 12x24  | Color<br>Red<br>c - Caulk<br>Color<br>Red                           | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%                           | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%                                    | None Detected Asbestos                        | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caul<br>Analyzed<br>Date<br>9/01/2023<br>PH1-033A  | Color<br>Red<br>c - Caulk<br>Color<br>Red                           | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%                           | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous   | None Detected Asbestos                        | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caul<br>Analyzed<br>Date<br>9/01/2023<br>PH1-033A<br>Room 234/Green Swirl 12x24<br>Analyzed  | Color<br>Red<br>- Caulk<br>Color<br>Red<br>FT - Floor Tile          | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%                           | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%<br>Asbestos                        | None Detected Asbestos None Detected          | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction                      | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caul<br>Analyzed<br>Date<br>9/01/2023<br>PH1-033A<br>Room 234/Green Swirl 12x24<br>Analyzed<br>Date<br>9/01/2023   | Color<br>Red<br>- Caulk<br>Color<br>Red<br>FT - Floor Tile<br>Color | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%<br>Non<br>Fibrous         | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0110                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed         Date         9/01/2023         PH1-032C         By Room 230/Five Stop Caule         Analyzed         Date         9/01/2023         PH1-033A         Room 234/Green Swirl 12x24         Analyzed         Date         9/01/2023         PH1-033A         Room 234/Green Swirl 12x24         Analyzed         Date         9/01/2023         PH1-033B | Color<br>Red<br>Color<br>Red<br>FT - Floor Tile<br>Color<br>Green   | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%<br>Non<br>Fibrous         | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed<br>Date<br>9/01/2023<br>PH1-032C<br>By Room 230/Five Stop Caul<br>Analyzed<br>Date<br>9/01/2023<br>PH1-033A<br>Room 234/Green Swirl 12x24<br>Analyzed<br>Date<br>9/01/2023   | Color<br>Red<br>Color<br>Red<br>FT - Floor Tile<br>Color<br>Green   | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%<br>Non<br>Fibrous         | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0110                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Analyzed         Date         9/01/2023         PH1-032C         By Room 230/Five Stop Cault         Analyzed         Date         9/01/2023         PH1-033A         Room 234/Green Swirl 12x24         Analyzed         9/01/2023         PH1-033B         Room 234/Green Swirl 12x24   | Color<br>Red<br>Color<br>Red<br>FT - Floor Tile<br>Color<br>Green   | Fibrous<br>0.88%<br>Fibrous<br>0.49%<br>Non-<br>Fibrous<br>0.0%       | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%<br>Asbestos<br>Non-Fibrous<br>100% | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0110                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | Analyzed         Date         9/01/2023         PH1-032C         By Room 230/Five Stop Caule         Analyzed         Date         9/01/2023         PH1-033A         Room 234/Green Swirl 12x24         Analyzed         Date         9/01/2023         PH1-033A         Room 234/Green Swirl 12x24         Analyzed         Date         9/01/2023         PH1-033B | Color<br>Red<br>Color<br>Red<br>FT - Floor Tile<br>Color<br>Green   | Fibrous<br>0.88%<br>Non<br>Fibrous<br>0.49%<br>Non<br>Fibrous<br>0.0% | Non-Fibrous<br>99.1%<br>Asbestos<br>Non-Fibrous<br>99.5%<br>Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0110                   |



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|  |   |   |   |   |   | 1.1.6  |                                  |
|--|---|---|---|---|---|--|----------------------------------|
| Client Sample ID:  | PH1-033C  |   |   |   |   | Lab Sample ID:   | 622300938-0112                   |
| Sample Description:  | Room 234/Green Swirl 12x24  | FT - Floor Tile   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023   | Green   | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH1-034A  |   |   |   |   | Lab Sample ID:   | 622300938-0113                   |
| Sample Description:  | Room 234/Mastic 33A - Mast  | ic from Floor Tile  |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| LM Grav. Reduction   | 9/01/2023   | Yellow  | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH1-034B  |   |   |   |   | Lab Sample ID:   | 622300938-0114                   |
| Sample Description:  | Room 234/Mastic 33B - Mast  | ic from Floor Tile  |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023   | Yellow  | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH1-034C  |   |   |   |   | Lab Sample ID:   | 622300938-0115                   |
| Sample Description:  | Room 234/Mastic 33C - Mast  | ic from Floor Tile  |   |   |   |  |                                  |
|  |   |   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| LM Grav. Reduction   | 9/01/2023   | Yellow  | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH1-035A  |   |   |   |   | Lab Sample ID:   | 622300938-0116                   |
| Sample Description:  | Room 410/White 12x24 FT -   | Floor Tile  |   |   |   |  |                                  |
|  |   |   |   |   |   |  |                                  |
|  |   |   |   |   |   |  |                                  |
|  | Analyzed  |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Date  | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
|  | -   | Color<br>White  |   | Non-Fibrous   | Asbestos<br>None Detected                     | Comment  |                                  |
| PLM Grav. Reduction  | Date  |   | Fibrous   | Non-Fibrous   |   | Comment<br>Lab Sample ID:                              | 622300938-0117                   |
| PLM Grav. Reduction  | Date<br>9/01/2023   | White   | Fibrous   | Non-Fibrous   |   |  | 622300938-0117                   |
| PLM Grav. Reduction  | Date<br>9/01/2023<br>PH1-035B   | White   | Fibrous   | Non-Fibrous   |   |  | 622300938-0117                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:  | Date<br>9/01/2023<br>PH1-035B<br>Room 410/White 12x24 FT - 1<br>Analyzed  | White<br>Floor Tile   | Fibrous<br>0.0%   | Non-Fibrous<br>100%   | None Detected                                 | Lab Sample ID:   | 622300938-0117                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST  | Date<br>9/01/2023<br>PH1-035B<br>Room 410/White 12x24 FT -<br>Analyzed<br>Date  | White<br>Floor Tile<br>Color  | Fibrous<br>0.0%<br>Non<br>Fibrous                           | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous   | None Detected                                 |  | 622300938-0117                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST  | Date<br>9/01/2023<br>PH1-035B<br>Room 410/White 12x24 FT - 1<br>Analyzed  | White<br>Floor Tile   | Fibrous<br>0.0%<br>Non                                      | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous   | None Detected                                 | Lab Sample ID:   | 622300938-0117                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction   | Date<br>9/01/2023<br>PH1-035B<br>Room 410/White 12x24 FT -<br>Analyzed<br>Date  | White<br>Floor Tile<br>Color  | Fibrous<br>0.0%<br>Non<br>Fibrous                           | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous   | None Detected                                 | Lab Sample ID:   | 622300938-0117<br>622300938-0118 |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Date<br>9/01/2023<br>PH1-035B<br>Room 410/White 12x24 FT - 1<br>Analyzed<br>Date<br>9/01/2023   | White<br>Floor Tile<br><b>Color</b><br>White                          | Fibrous<br>0.0%<br>Non<br>Fibrous                           | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous   | None Detected                                 | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Date<br>9/01/2023<br>PH1-035B<br>Room 410/White 12x24 FT - 1<br>Analyzed<br>Date<br>9/01/2023<br>PH1-035C   | White<br>Floor Tile<br><b>Color</b><br>White                          | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%                   | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%                                     | None Detected                                 | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT - 1           Analyzed           Date           9/01/2023           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed   | White<br>Floor Tile<br>Color<br>White<br>Floor Tile                   | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%                   | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos                        | None Detected Asbestos None Detected          | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT - 1           Analyzed           9/01/2023           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed           Date   | White<br>Floor Tile<br>Color<br>White<br>Floor Tile<br>Color          | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Fibrous | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT - 1           Analyzed           Date           9/01/2023           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed   | White<br>Floor Tile<br>Color<br>White<br>Floor Tile                   | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%                   | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected          | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0118                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction                      | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT - 1           Analyzed           9/01/2023           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed           Date   | White<br>Floor Tile<br>Color<br>White<br>Floor Tile<br>Color          | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Fibrous | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT -           Analyzed           Date           9/01/2023           PH1-035C           Room 410/White 12x24 FT -           Analyzed           Date           9/01/2023  | White<br>Floor Tile<br>Color<br>White<br>Floor Tile<br>Color<br>White | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Fibrous | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0118                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT - 1           Analyzed           Date           9/01/2023           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed           Date           9/01/2023           PH1-035C           Room 410/White 12x24 FT - 1           Analyzed           Date           9/01/2023           PH1-036A           Room 410/Mastic 35A - Mastic | White<br>Floor Tile<br>Color<br>White<br>Floor Tile<br>Color<br>White | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%                   | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100% | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0118                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | Date           9/01/2023           PH1-035B           Room 410/White 12x24 FT -           Analyzed           Date           9/01/2023           PH1-035C           Room 410/White 12x24 FT -           Analyzed           9/01/2023           PH1-035C           Room 410/White 12x24 FT -           Date           9/01/2023           PH1-035A  | White<br>Floor Tile<br>Color<br>White<br>Floor Tile<br>Color<br>White | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Non     | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous         | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0118                   |



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| Client Sample ID:  | PH1-036B   |   |   |   |   | Lab Sample ID:   | 622300938-0120                   |
|--|--|---|---|---|---|--|----------------------------------|
| Sample Description:  | Room 410/Mastic 35B - Mastic o   | on Floor Tile   |   |   |   | -  |                                  |
|  |  |   |   |   |   |  |                                  |
|  | Analyzed   |   |   | -Asbestos   |   | _  |                                  |
| TEST   | Date   | Color   |   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023  | Yellow  | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH1-036C   |   |   |   |   | Lab Sample ID:   | 622300938-0121                   |
| Sample Description:  | Room 410/Mastic 35C - Mastic   | on Floor Tile   |   |   |   |  |                                  |
|  | Analyzed   |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Date   | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023  | Yellow  | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH2-037A   |   |   |   |   | Lab Sample ID:   | 622300938-0122                   |
| Sample Description:  | Room 458/Tan 12x24 FT - Floor  | Tile  |   |   |   |  |                                  |
|  | Analyzod   |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Analyzed<br>Date   | Color   |   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023  | Beige   | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH2-037B   |   |   |   | <u> </u>                                      | Lab Sample ID:   | 622300938-0123                   |
| Sample Description:  |  | Tile  |   |   |   | Lub Gumple ib.   | 02200000000000                   |
| Sample Description.  | Room 458/Tan 12x24 FT - Floor  | The   |   |   |   |  |                                  |
|  | Analyzed   |   | Non   | Asbestos  |   |  |                                  |
| TEST   | Date   | Color   | Fibrous   | Non-Fibrous   | Asbestos                                      | Comment  |                                  |
| PLM Grav. Reduction  | 9/01/2023  | Beige   | 0.0%  | 100%  | None Detected                                 |  |                                  |
| Client Sample ID:  | PH2-037C   |   |   |   |   | Lab Sample ID:   | 622300938-0124                   |
| Sample Description:  | Room 458/Tan 12x24 FT - Floor  | r Tile  |   |   |   |  |                                  |
|  |  |   |   |   |   |  |                                  |
|  |  |   |   |   |   |  |                                  |
|  | Analyzed   |   | Non   | -Asbestos   |   |  |                                  |
| TEST   | Analyzed<br>Date   | Color   |   | Asbestos<br>Non-Fibrous   | Asbestos                                      | Comment  |                                  |
|  | -  | <b>Color</b><br>Beige   |   |   | Asbestos<br>None Detected                     | Comment  |                                  |
| PLM Grav. Reduction  | Date   |   | Fibrous   | Non-Fibrous   |   | Comment  | 622300938-0125                   |
| PLM Grav. Reduction  | Date<br>9/01/2023  | Beige   | Fibrous   | Non-Fibrous   |   |  | 622300938-0125                   |
| PLM Grav. Reduction  | Date<br>9/01/2023<br>PH2-038A  | Beige   | Fibrous   | Non-Fibrous   |   |  | 622300938-0125                   |
| PLM Grav. Reduction  | Date<br>9/01/2023<br>PH2-038A  | Beige   | Fibrous<br>0.0%   | Non-Fibrous   |   |  | 622300938-0125                   |
| PLM Grav. Reduction  | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic of   | Beige   | Fibrous<br>0.0%   | Non-Fibrous   |   |  | 622300938-0125                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST  | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic o<br>Analyzed  | Beige<br>on Floor Tile  | Fibrous<br>0.0%<br>Non-                                     | Non-Fibrous<br>100%   | None Detected                                 | Lab Sample ID:   | 622300938-0125                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction   | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic of<br>Analyzed<br>Date   | Beige<br>on Floor Tile<br>Color   | Fibrous<br>0.0%<br>Non-<br>Fibrous                          | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous                                     | None Detected                                 | Lab Sample ID:   | 622300938-0125<br>622300938-0126 |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic of<br>Analyzed<br>Date<br>9/01/2023  | Beige<br>on Floor Tile<br>Color<br>Brown                                    | Fibrous<br>0.0%<br>Non-<br>Fibrous                          | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous                                     | None Detected                                 | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Date           9/01/2023           PH2-038A           Room 458/Mastic 37A - Mastic of           Analyzed           Date           9/01/2023           PH2-038B   | Beige<br>on Floor Tile<br>Color<br>Brown                                    | Fibrous<br>0.0%<br>Non-<br>Fibrous                          | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous                                     | None Detected                                 | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:  | Date           9/01/2023           PH2-038A           Room 458/Mastic 37A - Mastic of           Analyzed           Date           9/01/2023           PH2-038B   | Beige<br>on Floor Tile<br>Color<br>Brown                                    | Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%<br>Non-          | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos                | None Detected                                 | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic of<br>Analyzed<br>9/01/2023<br>PH2-038B<br>Room 458/Mastic 37B - Mastic of<br>Analyzed<br>Date   | Beige<br>on Floor Tile<br>Color<br>Brown                                    | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Fibrous | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment                              |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST   | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic of<br>Analyzed<br>9/01/2023<br>PH2-038B<br>Room 458/Mastic 37B - Mastic of<br>Analyzed   | Beige<br>on Floor Tile<br>Color<br>Brown<br>on Floor Tile                   | Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%<br>Non-          | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos                | None Detected Asbestos None Detected          | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction   | Date<br>9/01/2023<br>PH2-038A<br>Room 458/Mastic 37A - Mastic of<br>Analyzed<br>9/01/2023<br>PH2-038B<br>Room 458/Mastic 37B - Mastic of<br>Analyzed<br>Date   | Beige<br>on Floor Tile<br>Color<br>Brown<br>on Floor Tile<br>Color          | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Fibrous | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:            |                                  |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Date           9/01/2023           PH2-038A           Room 458/Mastic 37A - Mastic of           Analyzed           Date           9/01/2023           PH2-038B           Room 458/Mastic 37B - Mastic of           Analyzed           Date           9/01/2023   | Beige<br>on Floor Tile<br>Color<br>Brown<br>on Floor Tile<br>Color<br>Brown | Fibrous<br>0.0%<br>Non<br>Fibrous<br>0.0%<br>Non<br>Fibrous | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0126                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:   | Date           9/01/2023           PH2-038A           Room 458/Mastic 37A - Mastic of           Analyzed           Date           9/01/2023           PH2-038B           Room 458/Mastic 37B - Mastic of           Analyzed           Date           9/01/2023           PH2-038B           Room 458/Mastic 37B - Mastic of           PH2-038B           Room 458/Mastic 37C - Mastic of | Beige<br>on Floor Tile<br>Color<br>Brown<br>on Floor Tile<br>Color<br>Brown | Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%                  | Non-Fibrous 100% Asbestos Non-Fibrous 100% Asbestos Non-Fibrous 100%                | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0126                   |
| PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID:<br>Sample Description:<br>TEST<br>PLM Grav. Reduction<br>Client Sample ID: | Date           9/01/2023           PH2-038A           Room 458/Mastic 37A - Mastic of           Analyzed           Date           9/01/2023           PH2-038B           Room 458/Mastic 37B - Mastic of           Analyzed           Date           9/01/2023           PH2-038B           Room 458/Mastic 37B - Mastic of           Date           9/01/2023           PH2-038C        | Beige<br>on Floor Tile<br>Color<br>Brown<br>on Floor Tile<br>Color<br>Brown | Fibrous<br>0.0%<br>Non-<br>Fibrous<br>0.0%<br>Non-          | Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous<br>100%<br>-Asbestos<br>Non-Fibrous | None Detected Asbestos None Detected Asbestos | Lab Sample ID:<br>Comment<br>Lab Sample ID:<br>Comment | 622300938-0126                   |



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| Client Sample ID:           | PH2-039A                       |               |              |                          |                           | Lab Sample ID:  | 622300938-0128 |
|-----------------------------|--------------------------------|---------------|--------------|--------------------------|---------------------------|-----------------|----------------|
| Sample Description:         | L001/Grey Mottled SF - SF      |               |              |                          |                           |                 |                |
|                             |                                |               |              |                          |                           |                 |                |
| TEOT                        | Analyzed                       | Color         |              | -Asbestos                | Ashastas                  | Commont         |                |
| TEST<br>PLM Grav. Reduction | 9/01/2023                      | Color<br>Gray | Fibrous      | Non-Fibrous<br>100%      | Asbestos<br>None Detected | Comment         |                |
|                             |                                | Glay          | 0.070        | 100 %                    |                           |                 |                |
| Client Sample ID:           | PH2-039B                       |               |              |                          |                           | Lab Sample ID:  | 622300938-0129 |
| Sample Description:         | L001/Grey Mottled SF - SF      |               |              |                          |                           |                 |                |
|                             |                                |               |              |                          |                           |                 |                |
| TEST                        | Analyzed<br>Date               | Color         |              | -Asbestos<br>Non-Fibrous | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 9/01/2023                      | Gray          | 0.0%         |                          | None Detected             | Comment         |                |
|                             |                                |               |              | 100,0                    |                           |                 |                |
| Client Sample ID:           | PH2-039C                       |               |              |                          |                           | Lab Sample ID:  | 622300938-0130 |
| Sample Description:         | L001/Grey Mottled SF - SF      |               |              |                          |                           |                 |                |
|                             | Anatomical                     |               | New          | A                        |                           |                 |                |
| TEST                        | Analyzed<br>Date               | Color         |              | -Asbestos<br>Non-Fibrous | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 9/01/2023                      | Gray          | 0.0%         | 100%                     | None Detected             | Comment         |                |
|                             |                                |               | 0.070        | 100,0                    |                           |                 |                |
| Client Sample ID:           | PH2-040A                       |               | $\mathbf{A}$ |                          |                           | Lab Sample ID:  | 622300938-0131 |
| Sample Description:         | Rifle Range/Glue Daubs - Glue  | Daubs         |              |                          |                           |                 |                |
|                             | Analysis                       |               |              |                          |                           |                 |                |
| TEST                        | Analyzed<br>Date               | Color         |              | -Asbestos<br>Non-Fibrous | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 9/01/2023                      | Brown         | 0.0%         |                          | None Detected             | oonnent         |                |
|                             |                                |               |              |                          |                           | l ab Cample ID: | 622300938-0132 |
| Client Sample ID:           | PH2-040B                       |               |              |                          |                           | Lab Sample ID:  | 022300930-0132 |
| Sample Description:         | Rifle Range/Glue Daubs - Glue  | Daubs         |              |                          |                           |                 |                |
|                             | Analyzed                       |               | Non          | -Asbestos                |                           |                 |                |
| TEST                        | Date                           | Color         |              | Non-Fibrous              | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 9/01/2023                      | Brown         | 0.0%         | 100%                     | None Detected             |                 |                |
| Client Sample ID:           | PH2-040C                       |               |              |                          |                           | Lab Sample ID:  | 622300938-0133 |
| Sample Description:         |                                | Dauba         |              |                          |                           |                 |                |
| bumple beschpholi.          | Rifle Range/Glue Daubs - Glue  | Daubs         |              |                          |                           |                 |                |
|                             | Analyzed                       |               | Non          | -Asbestos                |                           |                 |                |
| TEST                        | Date                           | Color         |              | Non-Fibrous              | Asbestos                  | Comment         |                |
| PLM Grav. Reduction         | 9/01/2023                      | Brown         | 0.0%         | 100%                     | None Detected             |                 |                |
| Client Sample ID:           | PH2-041A                       |               |              |                          |                           | Lab Sample ID:  | 622300938-0134 |
| Sample Description:         | Rifle Range/Gasket - Rope - Ga | sket Rope     |              |                          |                           | -               |                |
|                             |                                |               |              |                          |                           |                 |                |
|                             | Analyzed                       |               | Non          | -Asbestos                |                           |                 |                |
| TEST                        | Date                           | Color         | Fibrous      | Non-Fibrous              | Asbestos                  | Comment         |                |
| PLM                         | 8/29/2023                      | White         | 55.0%        | 5.0%                     | 40% Chrysotile            |                 |                |
| Client Sample ID:           | PH2-041B                       |               |              |                          |                           | Lab Sample ID:  | 622300938-0135 |
| Sample Description:         | Rifle Range/Gasket - Rope      |               |              |                          |                           |                 |                |
|                             | <b>v</b> 1 <sup>-</sup>        |               |              |                          |                           |                 |                |
|                             | Analyzed                       |               | Non          | -Asbestos                |                           |                 |                |
| TEST                        | Date                           | Color         | Fibrous      | Non-Fibrous              | Asbestos                  | Comment         |                |
| PLM                         | 8/29/2023                      |               |              | Positiv                  | e Stop (Not Analyzed)     |                 |                |



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|                     |                                  | ary Test Repo          |                 |                       | ,<br>,                    |                | 00000000 0400  |
|---------------------|----------------------------------|------------------------|-----------------|-----------------------|---------------------------|----------------|----------------|
| Client Sample ID:   | PH2-041C                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0136 |
| Sample Description: | Rifle Range/Gasket - Rope        |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        | Non-A           | Asbestos              |                           |                |                |
| TEST                | Date                             | Color                  | Fibrous         | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM                 | 8/29/2023                        |                        |                 | Positiv               | ve Stop (Not Analyzed)    |                |                |
| Client Sample ID:   | PH2-042A                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0137 |
| Sample Description: | Rifle Range/Blown In Insula      | ition - Blown in Insul | ation           |                       |                           |                |                |
|                     | i ano i lango, Diotini in incale |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        | Non-A           | Asbestos              |                           |                |                |
| TEST                | Date                             | Color                  | Fibrous         | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM                 | 8/29/2023                        | Brown/Gray/Tan         | 80.0%           | 20.0%                 | None Detected             |                |                |
| Client Sample ID:   | PH2-042B                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0138 |
| Sample Description: | Rifle Range/Blown In Insula      | tion - Blown in Insul  | ation           |                       |                           |                |                |
|                     |                                  |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        | Non-A           | Asbestos              |                           |                |                |
| TEST                | Date                             | Color                  |                 | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM                 | 8/29/2023                        | Brown/Gray             | 95.0%           | 5.0%                  | None Detected             |                |                |
| Client Sample ID:   | PH2-042C                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0139 |
| Sample Description: | Rifle Range/Blown In Insula      | tion - Blown in Insul  | ation           |                       |                           |                |                |
|                     | -                                |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        | Non-A           | Asbestos              |                           |                |                |
| TEST                | Date                             | Color                  |                 | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM                 | 8/29/2023                        | Brown/Gray             | 98.0%           | 2.0%                  | None Detected             |                |                |
| Client Sample ID:   | PH2-043A                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0140 |
| Sample Description: | Rifle Range/Vapor Barrier -      | Vapor Barrier          |                 |                       |                           |                |                |
|                     |                                  |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        | Non-A           | Asbestos              |                           |                |                |
| TEST                | Date                             | Color                  |                 | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Black                  | 0.0%            | 93.4%                 | 6.6% Chrysotile           |                |                |
| Client Sample ID:   | PH2-043B                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0141 |
| Sample Description: | Rifle Range/Vapor Barrier -      | Vapor Barrier          |                 |                       |                           |                |                |
|                     |                                  |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        |                 | Asbestos              |                           |                |                |
| TEST                | Date                             | Color                  | Fibrous         | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        |                        |                 | Positiv               | ve Stop (Not Analyzed)    |                |                |
| Client Sample ID:   | PH2-043C                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0142 |
| Sample Description: | Rifle Range/Vapor Barrier -      | Vapor Barrier          |                 |                       |                           |                |                |
|                     |                                  |                        |                 |                       |                           |                |                |
|                     | Analyzed                         | <b>a</b> ·             |                 | Asbestos              | <b>.</b>                  | 0-             |                |
| TEST                | Date                             | Color                  | Fibrous         | Non-Fibrous           | Asbestos                  | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        |                        |                 | Positiv               | ve Stop (Not Analyzed)    |                |                |
| Client Sample ID:   | PH2-044A                         |                        |                 |                       |                           | Lab Sample ID: | 622300938-0143 |
| Sample Description: | By B06/Joint Compound - J        | oint Compound          |                 |                       |                           |                |                |
|                     |                                  |                        |                 |                       |                           |                |                |
|                     | Analyzed                         |                        |                 | Asbestos              |                           | <b>0</b>       |                |
| TEST                | Date<br>8/29/2023                | Color<br>White         | Fibrous<br>0.0% | Non-Fibrous<br>100.0% | Asbestos<br>None Detected | Comment        |                |
| PLM                 |                                  |                        |                 |                       |                           |                |                |



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| Client Sample ID:   | PH2-044B                         | •         |         |             |               | Lab Sample ID: | 622300938-0144 |
|---------------------|----------------------------------|-----------|---------|-------------|---------------|----------------|----------------|
| Sample Description: | By B06/Joint Compound - Joint C  | Compound  |         |             |               |                |                |
|                     | By Booldonin Compound - Joint C  | Joinpound |         |             |               |                |                |
|                     | Analyzed                         |           | Non     | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM                 | 8/29/2023                        | White     | 0.0%    | 100.0%      | None Detected |                |                |
| Client Sample ID:   | PH2-044C                         |           |         |             |               | Lab Sample ID: | 622300938-0145 |
| Sample Description: | By B06/Joint Compound - Joint C  | Compound  |         |             |               | •              |                |
|                     | _,,                              |           |         |             |               |                |                |
|                     | Analyzed                         |           | Non     | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM                 | 8/29/2023                        | White     | 0.0%    | 100.0%      | None Detected |                |                |
| Client Sample ID:   | PH2-045A                         |           |         |             |               | Lab Sample ID: | 622300938-0146 |
| Sample Description: | T101/Tan Sheet Flooring - Sheet  | Flooring  |         |             |               |                |                |
|                     |                                  | J         |         |             |               |                |                |
|                     | Analyzed                         |           | Non     | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Tan       | <0.25%  | 100%        | None Detected |                |                |
| Client Sample ID:   | PH2-045B                         |           |         |             |               | Lab Sample ID: | 622300938-0147 |
| Sample Description: | T103/Tan Sheet Flooring - Sheet  | Flooring  |         |             |               |                |                |
|                     | C C                              | J         |         |             |               |                |                |
|                     | Analyzed                         |           | Non     | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Tan       | 0.74%   | 99.3%       | None Detected |                |                |
| Client Sample ID:   | PH2-045C                         |           |         |             |               | Lab Sample ID: | 622300938-0148 |
| Sample Description: | T103/Tan Sheet Flooring - Sheet  | Flooring  |         |             |               |                |                |
|                     |                                  |           |         |             |               |                |                |
|                     | Analyzed                         |           | Non     | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Tan       | 0.47%   | 99.5%       | None Detected |                |                |
| Client Sample ID:   | PH3-046A                         |           |         |             |               | Lab Sample ID: | 622300938-0149 |
| Sample Description: | G7 Bilge/Tan 12x12 FT - Floor Ti | le        |         |             |               |                |                |
|                     |                                  |           |         |             |               |                |                |
|                     | Analyzed                         |           | Non     | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Tan       | 0.0%    | 100%        | None Detected |                |                |
| Client Sample ID:   | PH3-046B                         |           |         |             |               | Lab Sample ID: | 622300938-0150 |
| Sample Description: | G7 Bilge/Tan 12x12 FT - Floor Ti | le        |         |             |               |                |                |
|                     |                                  |           |         |             |               |                |                |
|                     | Analyzed                         |           |         | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     |         | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Tan       | 0.0%    | 100%        | None Detected |                |                |
| Client Sample ID:   | PH3-046C                         |           |         |             |               | Lab Sample ID: | 622300938-0151 |
| Sample Description: | G7 Bilge/Tan 12x12 FT - Floor Ti | le        |         |             |               |                |                |
|                     |                                  |           |         |             |               |                |                |
|                     | Analyzed                         |           |         | -Asbestos   |               |                |                |
| TEST                | Date                             | Color     |         | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                        | Tan       | 0.0%    | 100%        | None Detected |                |                |



161 John Roberts Road South Portland, ME 04106 Phone/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com 622300938 CESI62

| Client Sample ID:           | PH3-047A                           |                           |                     |                           | Lab Sample ID: | 622300938-0152 |
|-----------------------------|------------------------------------|---------------------------|---------------------|---------------------------|----------------|----------------|
| Sample Description:         | G7 Bilge/Black Mastic 46A - Mastic | on Floor Tile             |                     |                           |                |                |
|                             |                                    |                           |                     |                           |                |                |
|                             | Analyzed                           | Non                       | -Asbestos           |                           |                |                |
| TEST                        | Date C                             | olor Fibrous              | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         | 9/01/2023 BI                       | ack 0.0%                  | 95.3%               | 4.7% Chrysotile           |                |                |
| Client Sample ID:           | PH3-047B                           |                           |                     |                           | Lab Sample ID: | 622300938-0153 |
| Sample Description:         | G7 Bilge/Black Mastic 46B - Mastic | on Floor Tile             |                     |                           |                |                |
|                             |                                    |                           |                     |                           |                |                |
|                             | Analyzed                           | Non                       | -Asbestos           |                           |                |                |
| TEST                        | Date C                             | olor Fibrous              | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         | 9/01/2023                          |                           | Positive            | e Stop (Not Analyzed)     |                |                |
| Client Sample ID:           | PH3-047C                           |                           |                     |                           | Lab Sample ID: | 622300938-0154 |
| Sample Description:         |                                    | on Eleer Tile             |                     |                           |                |                |
| oumple Description.         | G7 Bilge/Black Mastic 46C - Mastic |                           |                     |                           |                |                |
|                             | Analyzed                           | Non                       | -Asbestos           |                           |                |                |
| TEST                        | -                                  |                           | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         | 9/01/2023                          | $\mathbf{\lambda}$        |                     | e Stop (Not Analyzed)     |                |                |
| Client Semple ID:           | PH2-048A                           |                           |                     |                           | Lab Sample ID: | 622300938-0155 |
| Client Sample ID:           |                                    |                           |                     |                           | Lab Sample ID. | 022000000-0100 |
| Sample Description:         | H104/FT Cream w/ Green - Floor Ti  | le                        |                     |                           |                |                |
|                             | Analyzad                           |                           | -Asbestos           |                           |                |                |
| TEST                        | Analyzed<br>Date C                 |                           | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         |                                    | eige 0.0%                 |                     | None Detected             | oonment        |                |
|                             |                                    |                           |                     |                           |                |                |
| Client Sample ID:           | PH2-048B                           |                           |                     |                           | Lab Sample ID: | 622300938-0156 |
| Sample Description:         | H104/FT Cream w/ Green - Floor Ti  | le                        |                     |                           |                |                |
|                             |                                    |                           |                     |                           |                |                |
| TFOT                        | Analyzed                           |                           | -Asbestos           |                           | Commont        |                |
| TEST<br>PLM Grav. Reduction |                                    | olor Fibrous<br>eige 0.0% | Non-Fibrous<br>100% | Asbestos<br>None Detected | Comment        |                |
|                             | 9/01/2023                          |                           | 100%                |                           |                |                |
| Client Sample ID:           | PH2-048C                           |                           |                     |                           | Lab Sample ID: | 622300938-0157 |
| Sample Description:         | H104/FT Cream w/ Green - Floor Ti  | le                        |                     |                           | •              |                |
|                             |                                    |                           |                     |                           |                |                |
|                             | Analyzed                           |                           | -Asbestos           |                           |                |                |
| TEST                        |                                    |                           | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         | 9/01/2023 Be                       | eige 0.0%                 | 100%                | None Detected             |                |                |
| Client Sample ID:           | PH2-049A                           |                           |                     |                           | Lab Sample ID: | 622300938-0158 |
| Sample Description:         | H104/Mastic 048A - Mastic on Floor | Tile                      |                     |                           |                |                |
|                             |                                    |                           |                     |                           |                |                |
|                             | Analyzed                           | Non                       | -Asbestos           |                           |                |                |
| TEST                        |                                    | olor Fibrous              | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         | 9/01/2023 Ye                       | llow 0.0%                 | 100%                | None Detected             |                |                |
| Client Sample ID:           | PH2-049B                           |                           |                     |                           | Lab Sample ID: | 622300938-0159 |
| Sample Description:         | H104/Mastic 048B - Mastic on Floor | Tile                      |                     |                           |                |                |
| · ·                         |                                    |                           |                     |                           |                |                |
|                             | Analyzed                           | Non                       | -Asbestos           |                           |                |                |
| TEST                        | -                                  |                           | Non-Fibrous         | Asbestos                  | Comment        |                |
| PLM Grav. Reduction         | 9/01/2023 Ye                       | llow 0.0%                 | 100%                | None Detected             |                |                |
|                             |                                    |                           |                     |                           |                |                |



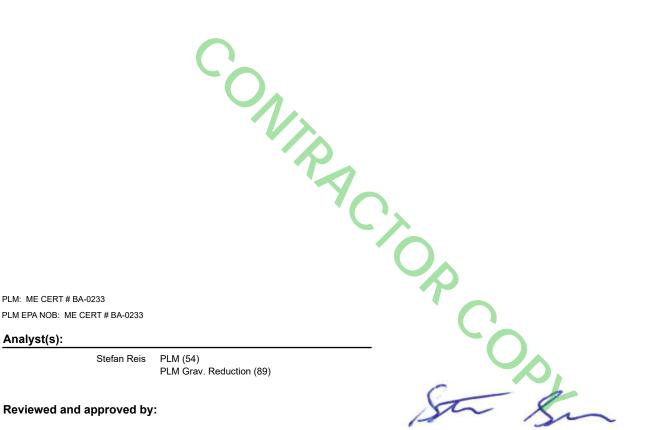
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622300938 CESI62

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#### Summary Test Report for Asbestos Analysis of Bulk Material

| Client Sample ID:   | PH2-049C                    |               |         |             |               | Lab Sample ID: | 622300938-0160 |
|---------------------|-----------------------------|---------------|---------|-------------|---------------|----------------|----------------|
| Sample Description: | H104/Mastic 048C - Mastic o | on Floor Tile |         |             |               |                |                |
|                     | Analyzed                    |               | Non     | -Asbestos   |               |                |                |
| TEST                | Date                        | Color         | Fibrous | Non-Fibrous | Asbestos      | Comment        |                |
| PLM Grav. Reduction | 9/01/2023                   | Yellow        | 0.0%    | 100%        | None Detected |                |                |



PLM EPA NOB: ME CERT # BA-0233

#### Analyst(s):

Reviewed and approved by:

Stephen Severn, Technical Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This is a summary report; official reports are available on LabConnect or upon request and relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME NVLAP Lab Code 500094-0, VT AL197271, ME LM-0039, CT PH-0346, AZ AZ-0959, MA AA000236

Initial report from: 09/05/202315:23:15

Test Report:EPAMultiTests-7.32.2.D Printed: 9/05/2023 03:23PM

| EMSL ANALYTICAL, IN  | <u>c.</u> (  | 57 <b>5</b> 3004.32  | mber / Lab Use Only  |                                      | PHONE (20  | and, ME 0410<br>7) 517-6921<br>tlandlab@em |           |
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| Customer ID  |  |  | Billing ID   |                                      |  |  |           |
| Company Name Haley   | Ward .   |  | Company Name   | aley Ward                            |  |  |           |
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| Contact Name Haley<br>Contact Name Deb K<br>Street Address: 1 Mer<br>City. State. Zip Bango<br>Phone 207-9 | or ME  | 044 Country US   |  | langor                               | ME   | Coun                                       | try US    |
|  | 89-4824  |  |  | 07-989-483                           | 24   |  |           |
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|  | Concession of the local division of the loca |  |  |                                      |  |  |           |
| EMSL Analytical, Inc.'s Lab  | oratory Terms and Condition<br>constitute  | s are incorporated into this Cha<br>s acceptance and acknowledge | in of Custody by reference in<br>nent of all terms and condition | their entirety. Su<br>is by Customer | binission of samples   | to EMSL Analytic                           | cal, Inc. |

Page 1 Of

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BY:

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| Project   | US State where<br>samples collected: ME<br>  | Order:<br>State of Connecticut (CT) must select project location:<br>Commercial (Taxable) Residential (Non-Taxable)<br>Date Sampled:<br>No. of Samples<br>In Shipment 2000<br>96 Hour 1 Week 2 Week<br>sples must be submitted by 11:30am.<br>TEM - Bulk<br>EPA NOB<br>NOB 198.4 (Non-Friable - NY)<br>EPA 600/R-93/116 w Million Peop (9.196) ED<br>Other Tests (please specify)<br>AUG 2 8 2023<br>BY:  |
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| Syler         Turn-Arou           24 Hour         32 Hour   | A Kastk<br>und-Time (TAT)<br>48 Hour 72 Hour<br>*32 Hour TAT available for select tests only: sam<br>Selection<br>TEM<br>NYS<br>TEM  | Commercial (Taxable)       Residential (Non-Taxable)         Date Sampled:       No. of Samples<br>in Shipment       60         96 Hour       1 Week       2 Week         ples must be submitted by 11:30am.       1 Week       2 Week         TEM - Bulk         EPA NOB       NOB 198.4 (Non-Friable - NY)         EPA 600/R-93/116 w Milling Press (P. 1965)       ED         Other Tests (please specify)         AUG 2 8 2023         BY:  |
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AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of tody docu ent by e ture.) G

Page 1 of

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

9

## FeelEr # 7913 8573 6262 Page 2 Of

| EMSL ANALYTICAL, INC.                    |           | 72300 438  | Southed ME04108/ED<br>PHONE: (207) 517-6921<br>EMAIL: portandtable meloom |
|--|-----------|--|---|
| nal Pages of the Chain of Custody are on |           | tional sample information<br>for Regulatory Requirements (Sample Specifications, Processing Methods, I | Limits of Detection, etc.)<br>BY:   |
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| quished by:                              |           | Date/Time: Received by:  | Date/Time<br>Date/Time  |

OrderID: 622300938

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| EMSL ANALYTICAL   |   | tos Bulk Building Materials - Chain of Custo<br>EMSL Order Number / Lab Use Only                                   | South Portland, ME 04106<br>(20715166928 2023<br>portlandlab@emsl.com |
|---|---|--|---|
| dditional Pages of the Chain of Cus                     | ody are only necessary if needed for an<br>Special Instructions a | dditional sample information<br>nd/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits o | f Detection, etc BY:  |
| Sample Number   | HA Number   | Sample Location  | Material Description  |
| 012C  | 1   | Janitor  |   |
| 0134  | v   | Storage by Security  | Carpotmastic  |
| 0133  |   | Conformeroom FI14  | 1,  |
| 0130  | ~   | Housekering B64  | 11  |
| 0144  |   | Conference room filly  | 2×4phole C+   |
| 014B  | C   | L'   | 11  |
| GIYC  | (   | t 1  | U   |
| OISA  |   | "above ct  | Sheetrock   |
| OISB  | ,   | Hospice-ping Bb4 abovect   | 11  |
| 0150  | v   | 11 11 11   |   |
| 0164  |   | Storago SIII   | dkbrown mothed FT   |
| OIGB  |   | 11   | ()  |
| DIGC  |   |  | 11  |
| 0174  |   | 11   | mastic 0164   |
| OTTB  |   | 11   | 11 O16B   |
| OITC  |   | 11   | 1' 016C   |
| 0184  |   | Room FIIZ  | 1' Olbe<br>Light green mothed   |
| 0188  |   | 11   |   |
| 0180  |   | N 1  | U   |
| 019A  |   | 11   | mastic 0184   |
| 019B  |   | 1 6  | 0188  |
| ic and some   |   | 11   | 018BC   |
| A 0208  |   | Rec 200m   | Wall glue CHEE  |
| 0B 0205   |   | 4 2  | 2   |
| 200   |   | 11   | 9   |
| ethod of Shipment:<br>elinguished by                    |   | Date/Time Received by:   | Date Time 2012 10   |
| elinquished by:<br>Introlled Document - Asbestos Bulk R |   | Date/Time: Received by:  | Date/Time   |

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| EMSL ANALYTICAL, INC<br>LABORATORY-PRODUCTS-TRAINING<br>Additional Pages of the Chain of Custody are | only necessary if needed for addition |                             |  | portland   | ME 04106 ED<br>17-8921<br>Ilab@emsl.com<br>2 8 2023 |
|--|---------------------------------------|-----------------------------|--|------------|---|
|  | Special instructions and/or           | Regulatory Requirements (58 | ample Specifications, Processing Methods,    | BY:        | AR  |
| Sample Number  | HA Number                             |                             | Sample Location                              | Material I | Description   |
| OZIA   |                                       | Chap.                       | e  | white      | ZXIZFT  |
| 021B   |                                       | 111                         |  | 17         |   |
| 0210   |                                       | 1 /                         |  | 13         |   |
| 022A   |                                       | 1)                          |  | Black      | 12VIZFT   |
| OZB  |                                       | 1 3                         |  | 11         |   |
| 0220   | C                                     | 1)                          |  | 1.)        |   |
| 023A   |                                       | ۱)                          |  | mas        | tic 0214  |
| 073B   |                                       | 1.1                         |  | 1          | 0218-1<br>0218-1<br>0216-0                          |
| 07.30  |                                       | 11                          |  | 1)         | 0210-   |
| 024A   |                                       | exterior                    | havel  | Ceilingert | Lover skime   |
| 024B   |                                       | 11                          |  | 2 Jui      |   |
| 0245   |                                       | 11                          | -/-  | ιι         |   |
| AZDOSA   |                                       | 1 1                         |  | column     | JKincoat  |
| 025B   |                                       | 11                          | P  |            | 1   |
| 025  |                                       | 11                          | 0  | 1          | 1   |
| 026A   |                                       | 2nd FI                      | oorby 200                                    | Grey bx    | IZ FT   |
| 026B   |                                       | 3rd Flor                    | or by 306                                    | J          | ()  |
| O26C.  |                                       | 4th Flor                    | b. 406                                       | 1          | 1   |
| GARA   |                                       | 2nd Floor                   | - 6. 206                                     | masti      | c 264   |
| 027B   |                                       | 3rd Flow                    | 6,306  | - prices - | 26B   |
| 0275   |                                       | 4th Flor                    | 6, 406                                       |            | 260   |
| OOBD   |                                       | 2rd Fbor                    | b. Bedram 20:                                | 3 CTI      |   |
| OIDD   |                                       | 11                          | ('   | CT3        |   |
| OBD  |                                       | RZ                          | 05204  | Caroota    | adhasiva-   |
| 0120   |                                       | Bath T2                     | 08   | mdddf      | iting   |
| Method of Shipment:<br>Relinquished by:  | 1                                     | Date/Time:                  | Sample Condition Upon Receip<br>Received by: |            |   |
| Relinquished by:   |                                       | Date/Time                   | Received by AYZ                              | Date/Tin   | 28/23 0   |

| EMSL ANALYTICAL, IN                         | <u>c.</u> 62 | 2300938   | South Rentland, ME-04109 ED |
|---|--------------|---|-----------------------------|
| Additional Pages of the Chain of Custody ar |              | tional sample information<br>/or Regulatory Requirements (Sample Specifications, Processing Methods | AUG 28 2023                 |
|   |              | er regisierer regis enerna (oangre operincationa, Processing incores                                | BY: AP                      |
| Sample Number                               | HA Number    | Sample Location   | Material Description 12,12  |
| 028A  |              | Room205   | gresswr112272F              |
| 028B  |              | LT.   | J ',                        |
| 024C  |              | 11  | x /                         |
| 0294  |              | 1,  | masticozy                   |
| 029B  |              | ( <sub>1</sub>  | 028                         |
| 029C  |              | IC.   | 0280                        |
| 030 A                                       |              | RoomZIZ   | windowczuk                  |
| 030B  |              | 353   | 4                           |
| 0300  |              | 342   | 4                           |
| 0314  |              | Room 212  | window glaze                |
| OBIB  |              | Room 228  | gite                        |
| OBIC  |              | Prom 329  |                             |
| 032A  |              | DiROOM 220  | FiveStopcaulk               |
| 032B  |              |   |                             |
| 0320  |              | 1/  |                             |
| 033A  |              | Room 234  | greenSwirl 12x24            |
| 033B  |              | 1 11  | ./                          |
| 0330  |              | 11  | 11                          |
| 0344  |              | 1/  | MaStic 331                  |
| 034B  |              | 11  | 33B                         |
| 034C  |              | 1   | 330                         |
| 012E  |              | Bath T214   | Muddad el bow               |
| 012F  |              | 11 11   | muddadelbow                 |
| OIHD  |              | Dy243   | 284 Din Grove               |
|   |              |   | ~ F U                       |
| ethod of Shipment<br>elinquished by         |              | Date/Time: Received by A  | Date/Time/28/23 10          |

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| EMSL ANALYTICAL, INC<br>LASORATORY-PRODUCTS-TRAINING<br>Additional Pages of the Chain of Custody a | re only nacessary if needed for additional | South Partie of NERA-100 EC<br>PHONE (207) 517-6921<br>EMAIL: portlandlab@emstrom<br>2023 |  |
|--|--|---|--|
|  | Special Instructions and/or R              | egulatory Requirements (Sample Specifications, Processing Method                          | s, Limits of Detection, etc.) BY: AR   |
| Sample Number  | HA Number                                  | Sample Location   | Material Description   |
| 035A   |  | Room 410  | white 12x24 FT   |
| 035B   |  |   |  |
| 035C   |  |   |  |
| 036A   |  |   | mastic 0351  |
| 036B   |  |   | 058  |
| 0366   |  |   | 0350   |
| OSID   |  | 200m 280  | window 9/92+   |
| 031E   |  | Room 280  | 11   |
| 0374   |  | Room 438  | tain 12 x 24 FT  |
| 037B   |  |   |  |
| 037C   |  | C x   |  |
| 0384   |  |   | MaStic 374   |
| 038B   |  | 4S  | 87B  |
| 0380   |  |   | 370  |
| 0124   |  | utsde 4 laundry by 491  | > muddetities  |
| 012H   | Ĩ  | 11 11   | mudded Fitting   |
| OI2T   |  | 5102  | milded & Hive  |
| 039A   |  | LOOI  | grey mottled SF  |
| 037B   |  | 11  | Ju   |
| OB9C.  | 1  | 11  | 11   |
| OMOA   |  | r, fle varge  | glue daubs   |
| 040B   |  | 11  | V u  |
| 04ac   |  | 17  | (I   |
| 0125   |  | V. Fle Vange  | m-dded Filling   |
|  |  | V   |  |
| Method of Shipment:<br>Relinguished by:  | lo   | ate/Time Received by:   | 101  |
| Relinquished by:   |  | ate/Time: Received by:  | Date/Time<br>Date/Time<br>Date/Time<br>of Custody document by electronic signature.)<br>entirety. Submission of samples to EMSL Analytical, Inc. |

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| OrderTD: | 622300938 |
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Asbestos Bulk Building Materials - Chain of Custody 161 John Roberts Road EMSL Order Number / Lab Use Only

622300938

EMSL Analytical, Inc.

South Rentlands ME Of 1067 ED

portlandlab@em Additional Pages of the Chain of Custody are only necessary if needed for additional sample information Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc. BY Sample Number HA Number Sample Location **Material Description** 742 OHA R.Fle Range - VODP 11 PHZ OYIR OYIC 11 2 11 (1 042 A nJin inSulator 11 C) 42B 11 42C 11 11 043A Vaporbornier () 043B 1. 0430 BOG Bint Compand Sadas Surfe T 11 THE 11 11 244 tanSheetHorn U4SR 2 11 045 11 0 046A tan 12X12FT PH3 CH4B 11 PH3 0460 11 Blac 461 7413. 047A astic 46B 047B 11 047 11 04 148A Cream 048B 11 11 )48C 11 11 Method of Shipment Sample Condition Upon Receipt Relinquished by Date/Time Received by B/28/23 10:00 P Date/Time Received by Relinquished by rolled Document - Asbestos Bulk R7 09/14/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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| EMSL ANALYTICAL, INC.                                  | 67300038  |  | PHONE (207) 517-6921<br>EMAIL: portland ab@emsl carry<br>AUG 2 8 2023 |  |
|--|---|--|---|--|
| Additional Pages of the Chain of Custody are only need | essary if needed for additional sample information    |  |   |  |
| ц.   | ecial Instructions and/or Regulatory Requirements (Sa | mple Specifications, Processing Methods, Limits of De      | BY: AP  |  |
| Sample Number  | IA Number   | Sample Location  | Material Description  |  |
| OUGR   | A104  |  | Mastic 0481   |  |
| 049B   | 11  |  | Mastic 048A   |  |
| 049C   | 17  |  | " 048C  |  |
|  |   |  |   |  |
|  | Ċ,  |  |   |  |
|  |   |  |   |  |
|  | 4   |  |   |  |
|  |   |  |   |  |
|  |   |  |   |  |
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| Method of Shipment                                     |   | Sample Condition Upon Receipt:                             |   |  |
| Relinquished by<br>Relinquished by                     | Date/Time<br>Date/Time                                | Received by: ARR   | Date Time 28/23 10  |  |
| Controlled Document - Asbestos Bulk R7 09/14/2021      |   | y checking. I consent to signing this Chain of Custody doc | ument by electronic signature.)                                       |  |

OrderID: 622300938



#### **APPENDIX D**

#### **PHOTOGRAPHIC LOG**

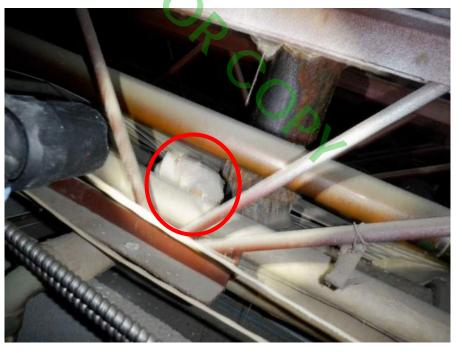
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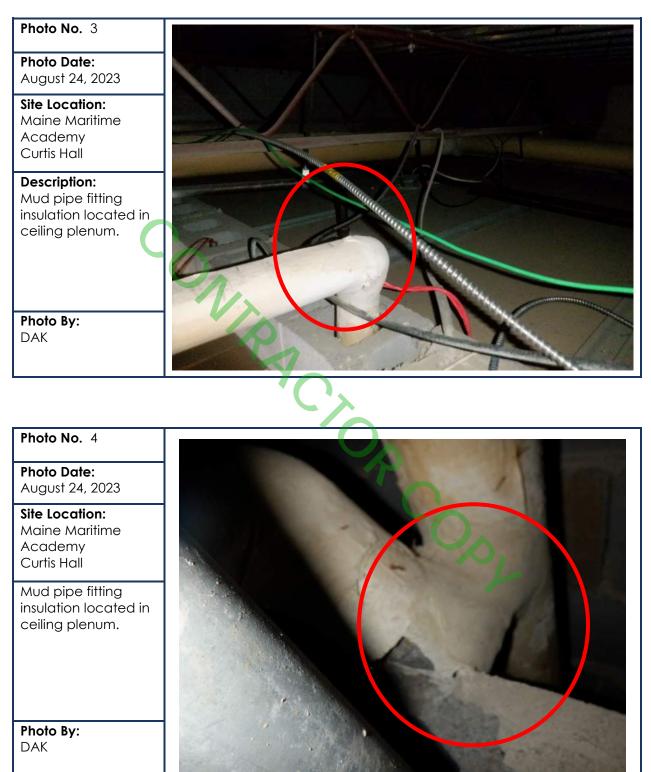
| Photo No.   |   |
|---|---|
| <b>Photo Date:</b><br>August 24, 2023   |   |
| <b>Site Location:</b><br>Maine Maritime<br>Academy<br>Curtis Hall   |   |
| <b>Description:</b><br>Fiberglass-insulated<br>piping beneath sinks<br>in restrooms. Mud<br>fitting insulation was<br>not observed. |   |
| <b>Photo By:</b><br>DAK   | R |
|   |   |
| Photo No. 2   |   |
| Photo Date:<br>August 24, 2023  |   |
| <b>Site Location:</b><br>Maine Maritime<br>Academy Curtis Hall  |   |

**Description:** Mud pipe fitting insulation located in ceiling plenum near restrooms.

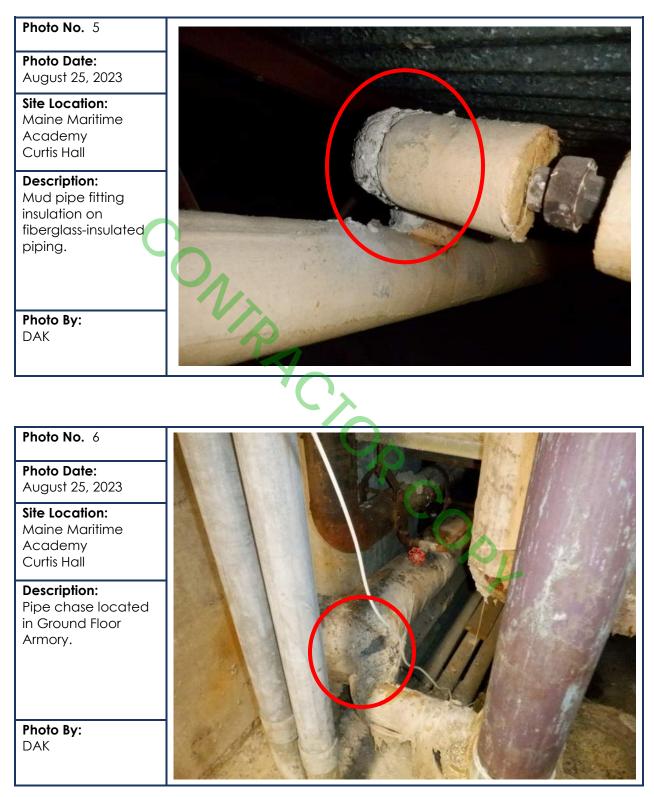
Photo By: DAK







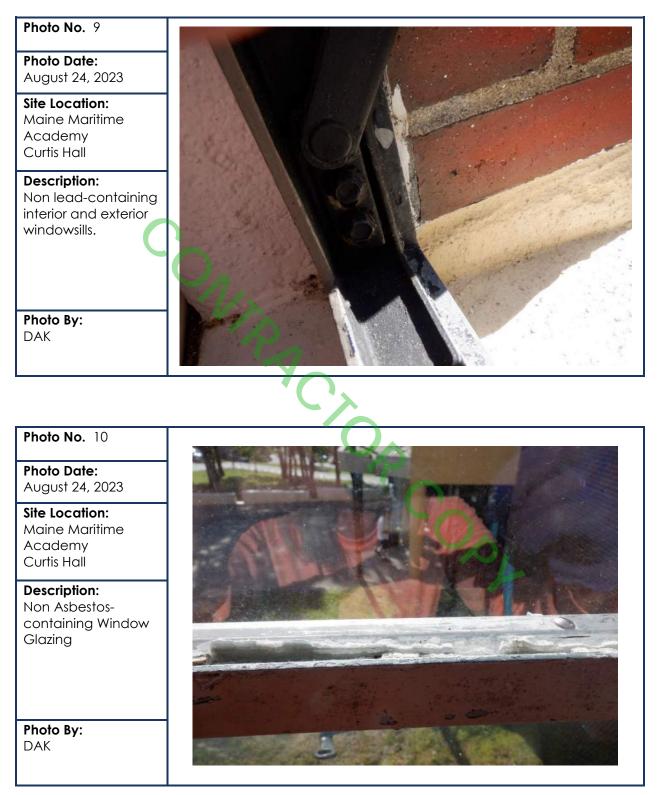
















November 17, 2023

Mr. Nathaniel A. Cram, AIA, LEED AP CHA Consulting, Inc. 49 Dartmouth Street Portland, Maine 04101 <u>ncram@chacompanies.com</u>

#### Re: Supplemental ACM Roof Sample Results | Curtis Hall Roof Academy | Castine, Maine

Maine Maritime

Dear Mr. Cram:

At your request, Haley Ward, Inc. (Haley Ward) received on October 23, 2023, at our Bangor office, four "roof core" samples from Curtis Hall located at the Maine Maritime Academy (MMA) in Castine, Maine. The roof core samples were collected by a qualified roofing contractor and delivered by Mr. Carl Olson, Facilities Operations Manager for MMA. Haley Ward reviewed, packaged, and submitted the roof core samples for to a Maine Department of Environmental Protection (MDEP) licensed laboratory for analysis.

A total of four roof core bulk samples of suspect ACM were received. MMA provided a site map with the approximate locations where the roof samples were collected and notes describing the samples. The notes are summarized, as follows:

- Sample 1 high end of insulation (wet)
- Sample 2 low end of insulation; (location changed due to puddle in the proposed location)
- Sample 3 middle depth of insulation
- Sample 4 middle depth of insulation.

The received bulk samples were submitted to EMSL Analytical, Inc. (EMSL) of South Portland, Maine for analysis. Bulk samples were analyzed using the MDEP required analytical method: PLM NOB-EPA 600/R-93/116 (for Non-Friable Organically Bound Materials (NOBs)). EMSL's laboratory is certified to perform asbestos analysis by both the National Voluntary Laboratory Accreditation Program (NVLAP) and the American

CHA Companies, Inc | 11.17.2023 | 13150.007.03 | Page 1





Industrial Hygiene Association (AIHA). EMSL is a MDEP licensed Asbestos Analytical Laboratory. Laboratory analytical results and chain of custodies are included as **Attachment A**.

Laboratory analytical results did <u>not</u> identify the received roof bulk samples as asbestoscontaining.

If you have any questions or if additional services are needed, please feel free to contact either of the undersigned at (207) 989-4824.

Shiracio

Sincerely, Haley Ward, Inc.

Anak J. Kasik

Deborah A. Kasik Project Scientist II MDEP Asbestos Inspector (AI-0177)

DAK/MDS/ Attachments

Michael D. Sauda, MPH, CSP Senior Project Scientist

CHA Companies, Inc | 11.17.2023 | 13150.007.03 | Page 2



#### **ATTACHMENT A**

LABORATORY ANALYTICAL RESULTS

contractor

CHA Companies, Inc | 11.17.2023 | 13150.007.03 | Page 3

HALEYWARD.COM



Tel/Fax: (207) 517-6921 / (207) 517-6922

http://www.EMSL.com / portlandlab@emsl.com

| Attention: | Deb Kasik                   | Phone:          | (207) 989-4824     |
|------------|-----------------------------|-----------------|--------------------|
|            | Haley Ward                  | Fax:            | (207) 989-4881     |
|            | 1 Merchant's Plaza          | Received Date:  | 10/25/2023 4:30 PM |
|            | 7th Floor                   | Analysis Date:  | 10/30/2023         |
|            | Bangor, ME 04401            | Collected Date: |                    |
| Project:   | 10955.016 ROOF CORE SAMPLES |                 |                    |

#### Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

|                          |   |                                      | Non-Asbes                  |                          | <u>Asbestos</u> |
|--------------------------|---|--------------------------------------|----------------------------|--------------------------|-----------------|
| Sample                   | Description   | Appearance                           | % Fibrous                  | % Non-Fibrous            | % Туре          |
| 1-Foam<br>622301177-0001 | SAMPLE #1 - HIGH<br>END OF<br>INSULATION (WET)  | Yellow<br>Non-Fibrous<br>Homogeneous |                            | 100% Non-fibrous (Other) | None Detected   |
| 1-Foam Backing           | SAMPLE #1 - HIGH<br>END OF  | Gray<br>Fibrous                      | 70% Cellulose<br>20% Glass | 10% Non-fibrous (Other)  | None Detected   |
| 622301177-0001A          | INSULATION (WET)  | Homogeneous                          |                            |                          |                 |
| 1-Fiberboard             | SAMPLE #1 - HIGH<br>END OF  | Brown<br>Fibrous                     | 95% Cellulose              | 5% Non-fibrous (Other)   | None Detected   |
| 622301177-0001B          | INSULATION (WET)  | Homogeneous                          |                            |                          |                 |
| 2-Foam<br>622301177-0002 | SAMPLE #2 - LOW<br>END OF<br>INSULATION -<br>PROPOSED<br>LOCATION<br>REMOVED DUE TO<br>PUDDLE | Yellow<br>Non-Fibrous<br>Homogeneous | 5                          | 100% Non-fibrous (Other) | None Detected   |
| 2-Foam Backing           | SAMPLE #2 - LOW<br>END OF   | Gray<br>Non-Fibrous                  | 70% Cellulose<br>20% Glass | 10% Non-fibrous (Other)  | None Detected   |
| 622301177-0002A          | INSULATION -<br>PROPOSED<br>LOCATION<br>REMOVED DUE TO<br>PUDDLE                              | Homogeneous                          | 3                          |                          |                 |
| 2-Fiberboard             | SAMPLE #2 - LOW<br>END OF   | Brown<br>Fibrous                     | 95% Cellulose              | 5% Non-fibrous (Other)   | None Detected   |
| 622301177-0002B          | INSULATION -<br>PROPOSED<br>LOCATION<br>REMOVED DUE TO<br>PUDDLE                              | Homogeneous                          |                            |                          |                 |
| 3-Foam                   | SAMPLE #3 -<br>MIDDLE DEPTH OF  | Yellow<br>Non-Fibrous                |                            | 100% Non-fibrous (Other) | None Detected   |
| 622301177-0003           | INSULATION  | Homogeneous                          |                            |                          |                 |
| 3-Foam Backing           | SAMPLE #3 -<br>MIDDLE DEPTH OF<br>INSULATION  | Gray<br>Fibrous<br>Homogeneous       | 70% Cellulose<br>20% Glass | 10% Non-fibrous (Other)  | None Detected   |
| 3-Fiberboard             | SAMPLE #3 -   | Brown                                | 95% Cellulose              | 5% Non-fibrous (Other)   | None Detected   |
| 622301177-0003B          | MIDDLE DEPTH OF   | Fibrous<br>Homogeneous               |                            |                          |                 |
| 4-Foam                   | SAMPLE #4 MIDDLE<br>DEPTH OF  | Yellow<br>Non-Fibrous                |                            | 100% Non-fibrous (Other) | None Detected   |
| 622301177-0004           | INSULATION  | Homogeneous                          |                            |                          |                 |
| 4-Foam Backing           | SAMPLE #4 MIDDLE<br>DEPTH OF  | Gray<br>Fibrous                      | 70% Cellulose<br>20% Glass | 10% Non-fibrous (Other)  | None Detected   |
| 622301177-0004A          | INSULATION  | Homogeneous                          |                            |                          |                 |
| 4-Fiberboard             | SAMPLE #4 MIDDLE<br>DEPTH OF  | Brown<br>Fibrous                     | 95% Cellulose              | 5% Non-fibrous (Other)   | None Detected   |
| 622301177-0004B          | INSULATION  | Homogeneous                          |                            |                          |                 |



161 John Roberts Road South Portland, ME 04106 Tel/Fax: (207) 517-6921 / (207) 517-6922 http://www.EMSL.com / portlandlab@emsl.com EMSL Order: 622301177 Customer ID: CESI62 Customer PO: Project ID:

ontractor

Analyst(s)

Stephen Severn (12)

Stephen Severn, Technical Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. South Portland, ME NVLAP Lab Code 500094-0, VT AL197271, ME LM-0039, CT PH-0346, AZ AZ-0959, MA AA000236

Initial report from: 10/30/2023 16:02:13

| 4   | sbestos Bulk Building   | materials - Chain of   | Custody 161 Johr              | Roberts Road   |                  |
|---|---|--|-------------------------------|--|------------------|
| EMSL ANALYTICAL, INC.   |   | Number / Lab Use Only  | South Po<br>PHONE:            | ortland, ME 0410<br>(207) 517-6921<br>portlandlab@em |                  |
| Customer ID:  | ·   |  |                               |  |                  |
|   |   | E Company Name: Hale   |                               |  |                  |
| Company Name: Haley Ward  |   | - e l'ialey  | Ward                          |  |                  |
| Deb Kasik   |   | Street Address: 1 Mar  |                               | -  |                  |
| Street Address: 1 Merchant's Pla  |   | Die City, State, Zip: Bang   | rchant's Plaza, 7th           |  | <sup>ny</sup> US |
| City, State, Zip: Bangor<br>Phone: 207-989-4824   | ME 044 Country: US  | Phone: 207 0   |                               |  | 105              |
| Email(s) for Report dkasik@haleywa  | ard com   | Email(s) for Invoice:  | 989-4824                      |  |                  |
| ukasik@naicywa  |   | ct Information   |                               |  |                  |
| roject 10955.016  | (Roof core.   | Samplas)   | Purchase<br>Order             |  |                  |
| MSL LIMS Project ID:<br>applicable, EMSL will provide)  | Lico core.  | US State where samples collected: ME   | State of Connecticut (CT) mu  | st select project locati                             | on:              |
|   | Sampled By Signature:   |  | Date Sampled:                 | ) Residential (<br>No. of Samples                    | Non-Taxable)     |
| Neredic' Deborah A Kasik  | Aseleorahy  | a Kasil  | Date Sampled.                 | in Shipment  | H                |
| 3 Hour 6 Hour   | ] [] [  | ound-Time (TAT)  |                               |  |                  |
|   | d for large projects and/or turnaround times 6 Hours or Les                                     | 48 Hour 72 Hour<br>ss. *32 Hour TAT available for select tests only, samp  | 96 Hour                       | 1 Week   | 2 Week           |
| 400 (<0.25%) 1,000<br>POINT COUNT w/ GRAVIMETRIC<br>400 (<0.25%) 1,000  |   |  | Other Tests (please spec      | <u>fy)</u>   |                  |
| <ul> <li>NIOSH 9002 (&lt;1%)</li> <li>NYS 198.1 (Friable - NY)</li> <li>NYS 198.6 NOB (Non-Friable - NY)</li> </ul>   |   | 2  |                               |  |                  |
| NYS 198.1 (Friable - NY)  |   | Positive Stop - C  | Clearly Identified Homogen    | eous A <mark>r</mark> eas (HA)                       |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY)   |   | Sample Location  | Ma                            | iterial Description                                  |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1   | Sample Location<br>High, End of<br>On (WET)  | Ma                            |  | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description                                  | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | terial Description                                   | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>High End of<br>On (WET)   | Root<br>tionmoded             | iterial Description<br>Callissic<br>11               | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>Callissic<br>11               | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>tionmoded             | iterial Description<br>CMNSU<br>11<br>11             | lation           |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>timmobel<br>undale    | II<br>II<br>II<br>II                                 |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V)  | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>AighEndof<br>ION (WET)<br>- LowEnd of<br>n Proposed loca  | Root<br>timmobel<br>undale    | II<br>II<br>II<br>II                                 |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V) Sample Number HA Num I 2 3 4 Sample Number HA Num I 2 3 4 Special Inst | Sample #1<br>inscilati<br>Sample # 2<br>institution   | Sample Location<br>High Endof<br>On (WET)<br>- Low End of<br>n Proposed loca<br>- Middle top<br>Sul atron<br>Middle depth o<br>100   | Root<br>timmobel<br>undale    | II<br>II<br>II<br>II                                 |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V) Sample Number HA Num I 2 3 4 Sample Number HA Num I 2 3 4 Special Inst | Sample #1<br>Inscillation<br>Sample #3<br>Sample #3<br>depth of in<br>Sample #4<br>Inscillation | Sample Location<br>High Endof<br>On (WET)<br>- Low End of<br>n Proposed loca<br>- Middle top<br>Sul atron<br>Middle depth o<br>100   | Root<br>timmobel<br>undale    | II<br>II<br>II<br>II                                 |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V) Sample Number HA Num I 2 3 4 Sample Number HA Num I 2 3 4 Special Inst | Sample #1<br>Inscillation<br>Sample #3<br>Sample #3<br>depth of in<br>Sample #4<br>Inscillation | Sample Location<br>High Endof<br>On (WET)<br>- Low End of<br>n Proposed loca<br>- Middle top<br>Sul atron<br>Middle depth o<br>100   | Root<br>timmobel<br>undale    | iterial Description<br>CMNSU<br>11<br>11             |                  |
| NYS 198.1 (Friable - NY) NYS 198.6 NOB (Non-Friable - NY) NYS 198.8 (Vermiculite SM-V) Sample Number HA Num I Z 3 4 Special Inst                              | Sample #1<br>Inscillation<br>Sample #3<br>Sample #3<br>depth of in<br>Sample #4<br>Inscillation | Sample Location<br>High Endof<br>On (WET)<br>- Low End of<br>n Proposed loca<br>- Middle top<br>Sul atron<br>Middle depth o<br>100   | s, Limits of Detection, etc.) | EECE<br>DCT 2  |                  |
| NYS 198.1 (Friable - NY)<br>NYS 198.6 NOB (Non-Friable - NY)<br>NYS 198.8 (Vermiculite SM-V)<br>Sample Number HA Num<br>I<br>2<br>3<br>4<br>4<br>NOB per MDEP | Sample #1<br>Inscillation<br>Sample #3<br>Sample #3<br>depth of in<br>Sample #4<br>Inscillation | Sample Location<br>High Endof<br>On (WET)<br>- Low End of<br>n Proposed Dea<br>Middle depth o<br>Middle depth o<br>1000<br>Middle depth o<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>100 | s, Limits of Detection, etc.) | II<br>II<br>II<br>II                                 | IVE<br>4 2023    |
| NYS 198.1 (Friable - NY)<br>NYS 198.6 NOB (Non-Friable - NY)<br>NYS 198.8 (Vermiculite SM-V)<br>Sample Number HA Num<br>I<br>22<br>3<br>44<br>Wob per MDEP    | Sample #1<br>Inscillation<br>Sample #3<br>Sample #3<br>depth of in<br>Sample #4<br>Inscillation | Sample Location<br>High Endof<br>On (WET)<br>- Low End of<br>n Proposed Dea<br>Middle depth o<br>Middle depth o<br>in<br>Middle depth o<br>in<br>Sample Specifications, Processing Methods<br>Middle depth o   | s, Limits of Detection, etc.) | eterial Description                                  |                  |

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FedEX 7967 2855 Page 1 Of

#### STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION



MELANIE LOYZIM COMMISSIONER

September 2, 2023

Attn: Lorie Dennis, QA Certification Coordinator EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

Dear Ms. Dennis,

This is to confirm that the Maine Department of Environmental Protection is in receipt of your request to add the following labs to your licensing of Analytical Laboratories: Boston, MA., South Portland, Maine, Wallingford, CT and Carle Place, NY.

LA-0038 for Asbestos Analytical Laboratory (Air), expires on 10/31/2024 LB-0039 for Asbestos Analytical Laboratory (Bulk), expires on 10/31/2024

Remember each laboratory must have certified individual(s) within the lab to perform analyses.

If you need any further assistance please feel free to contact me at (207) 242-0877 or e-mail at sandy.j.moody@maine.gov.

Sincerely,

Sanda

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

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

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

PORTLAND **312 CANCO ROAD** PORTLAND, MAINE 04103

PRESQUE ISLE 1235 CENTRAL DRIVE, SKYWAY PARK PRESQUE ISLE, MAINE 04679-2094 (207) 822-6300 FAX: (207) 822-6303 (207) 764-0477 FAX: (207) 760-3143

## S. PORTLAND - INDIVIDUAL ANALYST CERTIFICATIONS

### **State of Maine**

October 30, 2023

| Employee Name  | Lab<br>Location | State<br>Certified | Certification No. | Type of Cert.         | Exp. Date  |
|----------------|-----------------|--------------------|-------------------|-----------------------|------------|
| Stephen Severn | S. Portland     | Maine              | AA-0497           | Air Asbestos Analyst  | 10/31/2024 |
| Stephen Severn | S. Portland     | Maine              | BA-0178           | Bulk Asbestos Analyst | 10/31/2024 |
| Stefan Reis    | S. Portland     | Maine              | BA-0233           | Bulk Asbestos Analyst | 5/31/2024  |

### United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 500094-0

## **EMSL Analytical, Inc.** South Portland, ME

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

## Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2023-10-01 through 2024-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

NVLAP LAB CODE 500094-0

### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

**EMSL** Analytical, Inc.

161 John Roberts Road South Portland, ME 04106 Stephen Severn Phone: 207-517-6921 Email: ssevern@emsl.com http://www.emsl.com

### **ASBESTOS FIBER ANALYSIS**

### **Bulk Asbestos Analysis**

### Code <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

18/A03

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

nir

For the National Voluntary Laboratory Accreditation Program



### AIHA Laboratory Accreditation Programs, LLC

acknowledges that EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077 Laboratory ID: LAP-100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

### LABORATORY ACCREDITATION PROGRAMS INDUSTRIAL HYGIENE Accreditation Expires:

| $\checkmark$ | INDUSTRIAL HYGIENE         | Accreditation Expires: January 01, 2025 |
|--------------|----------------------------|---|
| $\checkmark$ | ENVIRONMENTAL LEAD         | Accreditation Expires: January 01, 2025 |
| $\checkmark$ | ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: January 01, 2025 |
|              | FOOD                       | Accreditation Expires:                  |
|              | UNIQUE SCOPES              | Accreditation Expires:                  |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl J. Marton

Cheryl O Morton Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 01/01/2023

Revision20: 06/07/2022