RANSOM Consulting, Inc.

Consulting Engineers and Scientists

December 17, 2018 Project 171.06108

Mason Station LLC
485 West Putnam Avenue
Greenwich, Connecticut

RE: Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Ransom Consulting, Inc. (Ransom) has prepared this report presenting the results of the Hazardous Building Materials Inventory (HBMI) performed at the property identified as the former Mason Station power plant (Mason Station), located on Birch Point Road in Wiscasset, Maine (the Site). The work was authorized by Mason Station LLC (Owner) and was conducted in accordance with Ransom's Proposed Scope of Work and Cost Estimate, dated October 24, 2018. The purpose of the work was to identify the nature and extent of Hazardous Building Materials at the Site, and to generate preliminary abatement cost estimates for future cleanup and/or redevelopment projects at the Site. The HBMI included sampling for asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs) and an evaluation of other hazardous and potentially hazardous building components.

Drawings for the Site buildings' interior, roof and exterior, including locations of samples testing positive for asbestos and PCBs, are provided as Figures 1 through 4. Please note that the interior drawings presented in Figures 2 through 4 show only the Powerhouse Building ground floor, second, and third levels, as these are the areas with "positive" sample locations. The building ranges from three to six stories high, with significant quantities of ACM at each level. The ACM depicted on interior drawings are the vertical boiler units, which generally extend from ground floor to the top level in each unit and are provided for spatial reference. There are multiple types of asbestos-insulated equipment on each level including boilers, tanks, air heaters, air ducts, oil heaters, steam and water piping, etc. which are too numerous to consistently show on the generalized drawings provided.

A photograph log documenting our key findings is included as Attachment A.

EXECUTIVE SUMMARY

Ransom understands that the Owner has requested this HBMI to satisfy a Maine Department of Environmental Protection (MEDEP) request and determine potential regulatory and cost implications in advance of potential future Site redevelopment activities, which may include renovation or partial or total demolition of the Site buildings. Given the age, construction, and former use of the Site buildings, there is potential for significant ACM, LBP, and/or PCBs to be present in the building materials. To address these concerns, Ransom conducted inspections for ACM, LBP, PCBs, and an inventory of other potentially hazardous materials at the Site during the HBMI conducted between November 5 and December 4, 2018. Based on the results of this inspection, Ransom draws the following conclusions:

1. Large quantities of asbestos-containing materials were identified at the Site. Materials identified as ACM that may be impacted by future renovation or demolition of the Site buildings should be properly removed for off-Site disposal, prior to or during such activities;

2. Certain additional materials (i.e. roofing on Boiler Unit 5 upper roof sections) were not able to be accessed or sampled and are presumed to be asbestos-containing (PACM). Materials identified as PACM should be treated as ACM, until future sampling and laboratory testing can confirm or refute presumption;

3. Some painted surfaces inspected exhibited lead concentrations high enough to delineate the materials as "lead-based" according to United States Housing and Urban Development (HUD) guidelines. These guidelines apply to federal housing projects and are referenced herein for comparison purposes only. General and/or demolition contractors may perform demolition of surfaces coated with LBP or lead-containing coatings, provided that the handling of components coated with paint containing lead *at any concentration* (referred to as lead-containing paint) complies with Occupational Safety and Health Administration's (OSHA's) lead standards;

4. PCBs were detected in one paint sample at a concentration greater than 50 milligrams per kilogram (mg/kg); this paint and any contaminated substrate materials are considered PCB Bulk Product Waste and are subject to management under the federal PCB regulations, 40 CFR §761. Removal of this paint and potentially PCB-contaminated substrates would be necessary prior to or concurrent with demolition activities that would impact them;

5. During the course of this investigation, Ransom also inventoried universal waste items at the Site, including fluorescent bulbs, high-intensity discharge lamps, electronic ballasts, and refrigerant compressors, that may contain mercury, PCBs, and ozone-depleting substances (ODS), respectively. Disposal of each of these items is also subject to hazardous and/or universal waste disposal requirements;

6. Limited air screening for mercury vapor conducted in support of Ransom's HBMI inspection did not indicate a current exposure hazard but did detect residual contamination associated with several former mercury-containing devices. Ransom recommends a full inventory of such units, documenting the quantity and location of former/drained mercury equipment; and

7. Ransom's inspection also identified significant areas of pigeon droppings, which are known to pose a risk for respiratory disease in humans. These areas of bird droppings should also be remediated, to mitigate future health risks to building occupants or construction/demolition personnel.

FACILITY DESCRIPTION

The Mason Station Site consists of seventy-eight parcels encompassing a total of approximately 30.4 acres of land, located on the Birch Point Peninsula, just south of downtown Wiscasset. The Site is

identified by the Town of Wiscasset Assessor's Office as Lots 1 through 79 and Lots 81 through 85 on Tax Map R-7A.

The original portion of the Mason Station power plant ("Powerhouse Building") was constructed at the Site by Central Maine Power Co. (CMP) circa 1940-1946, consisting of the portion now referenced as Units 1 & 2. The Powerhouse Building was expanded to the north in 1952, adding two additional turbines and associated boilers and other equipment, referenced as Units 3 & 4. The building was expanded again circa 1958, adding one more turbine and associated equipment (Unit 5), to the south. There are three associated screen house buildings to the east of the Powerhouse Building, (Screen Houses #1, #2, and #3) which were constructed concurrently with the respective Powerhouse turbine units they served. The Mason Station power plant generated electric power for CMP using coal- and oil-fired steam boilers, from circa 1961 until power generation initially ceased in 1984. The plant was brought back on line in 1988, and then deactivated again in 1989. CMP briefly reactivated the plant in 1997 in preparation for the sale of the facility to Florida Power and Light (FPL). FPL purchased the Site from CMP and owned it from 1999 to December 2003, when it was purchased by Mason Station, LLC. A large amount of boiler and generating equipment was removed from the Powerhouse Building for purchase by an outside investor between 2009-2012. During this time period, each of the five main power generation turbines was removed from the building, along with virtually all process equipment, including boilers, from the Unit 5 building area. Much of this equipment was reportedly shipped overseas for re-assembly and reuse, though some of the removed equipment remains staged onsite, shrink wrapped and stored just off the south end of the Powerhouse Building.

The scope of this HBMI includes only the Powerhouse Building and three associated screen houses. Hazardous materials surveys have been conducted for other onsite buildings previously by Ransom, (see Hazardous Materials Inventory, Point East Maritime Village, dated June 21, 2016 prepared for the Lincoln County Regional Planning Commission).

LIMITATIONS

This hazardous building materials inventory is subject to certain limitations, which must be considered when interpreting the results. The information presented in this report is based upon work undertaken by trained professional and technical staff in accordance with generally accepted engineering and scientific practices current at the time the work was performed. Conclusions represent the professional judgment of Ransom based on the data obtained from the work and the site conditions encountered at the time the work was performed and are not to be construed as legal advice.

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

1. Ransom was not able to access the upper-level roof of the Unit 5 building area, due to height/safety concerns. Similarly, the interior of the Unit 5 area has been mostly dismantled during prior equipment removal, and no access was possible above the second level. Ransom makes no conclusions about building areas not accessible for inspection.

2. Several generations and several styles of flat asphalt-based roofing were observed during our survey, beneath a rubber membrane roof which is installed building-wide. Core cut sampling was therefore conducted in a spatial/statistical fashion, rather than via direct observation of "homogenous areas", with core cut locations guided by assumptions of

building history. Documentation of the roofing profile identified in each core cut is provided in Table 1.

3. Due to the large scale and complexity of this facility, and the intensive use of asbestos, quantities of several ACM (particularly those quantified by linear footage) are based on visual estimates and calculations and should not be interpreted to be based on direct measurement.

4. The scope of our survey does not extend below ground surface and makes no conclusions about subterranean conditions. Two underground runs of ACM insulated piping were observed from the Powerhouse Building basement, running from the Units 1 & 2 building area to Screen House 1, but other similar pipe runs to Screen Houses 2 and 3, as well as asbestos-cement water or sewer/drain piping, etc. may exist below ground at the Site.

5. Our inspection was conducted for Mason Station LLC and is representative of conditions observed at the time of this report. No reliance shall be made by other users, for additional purposes, or for future demolition/renovation projects at the Site without written authorization.

HISTORICAL DOCUMENTATION

Ransom was not provided with and has no knowledge of previous environmental, inspection, or abatement reports relative to the identification of hazardous building materials at the Site.

Based on the available information, large quantities of turbine, boiler, and ancillary equipment was removed circa 2009-2012. Asbestos abatement was reportedly conducted by (now defunct) Morrissey Environmental of Lewiston, Maine. Ransom did not identify documentation of these abatement actions as part of this investigation.

ASBESTOS-CONTAINING MATERIALS

Ransom conducted an inspection of the Site for the presence of ACM between November 5 and December 4, 2018. The scope of the ACM inspection included the identification, quantification, and sampling of accessible suspect building materials on the Site building's interior and exterior. The inspection was conducted by Lucas Hathaway of Ransom, who is certified by Maine and accredited by the U.S. EPA as an asbestos inspector. Copies of Mr. Hathaway's most recent training certificates and state asbestos inspector certifications are provided as Attachment B.

In the State of Maine, OSHA, the U.S. EPA, and the MEDEP are responsible for regulating the release of asbestos into the environment and protecting workers from exposure to airborne asbestos fibers. OSHA defines ACM as "any material containing more than one percent asbestos." MEDEP defines ACM as "any material containing asbestos in quantities greater than or equal to one percent by volume as determined by weight, visual evaluation, and/or point count analysis." Bulk samples of friable miscellaneous materials (e.g., plaster, and pressed fiber ceiling tile) were analyzed using the *Method for the Determination of Asbestos in Bulk Building Materials*, EPA/600/R-93/116 (1993) via polarized light microscopy (PLM) visual estimation. Non-friable organically bound (NOB) materials (e.g., floor tiles,

roofing materials, caulks and mastics) were analyzed using PLM NOB–EPA 600/R-93/116 using the gravimetric reduction method (GRM).

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

The following is a brief discussion of each ACM and PACM identified.

1. **ACM Lagging on Boiler/Heater/Large-unit Process Equipment:** An estimated 50,000 square feet (SF) of friable ACM jacketing was observed on boilers and other process equipment throughout the Powerhouse Building, from ground level, up to elevations ranging from three to six stories high. Material was well-labeled as asbestos-containing; no confirmatory samples were collected for laboratory analysis.

2. **ACM Jacketing on Tanks:** An estimated 6,900 SF of ACM jacketing was observed on holding tanks throughout the Powerhouse Building. It is assumed that tanks would be abated in situ, rather than removed whole-component; removal cost estimates are presented accordingly. Material was well-labeled as asbestos-containing; no confirmatory samples were collected for laboratory analysis.

3. **ACM Insulation on Large-diameter piping (>18"D):** An estimated 15,800 SF of ACM insulation was observed on large-diameter piping and ductwork throughout the Powerhouse building. It is assumed that these materials would be abated in situ, rather than removed whole-component; removal cost estimates are presented accordingly. Material was well-labeled or banded with red, indicating that it is asbestos-containing; no confirmatory samples were collected for laboratory analysis.

4. **ACM Insulation on Small-diameter piping (≤18"D):** An estimated 21,500 linear feet (LF) of ACM insulation was observed on small-diameter piping throughout the Powerhouse building. It is assumed that these materials would be abated using wrap-and-cut methods, rather than in situ; removal cost estimates are presented accordingly. Material was well-labeled or banded with red, indicating that it is asbestos-containing; no confirmatory samples were collected for laboratory analysis.

5. **ACM Debris:** Several areas of apparent asbestos debris were observed on the floors, catwalk grates, and process equipment throughout the Powerhouse Building, due to water damage or other deterioration of thermal system insulation. Exact quantities of ACM debris are not presented, rather, it is assumed that remediation of these areas would be included in the scope of abatement of the items listed above.

6. **Covebase mastic (sample set 06):** The adhesive associated with the vinyl covebase installed in the CMP Control Room was identified as ACM. Though the covebase material tested negative for asbestos, it is assumed that the covebase and mastic would be removed together, as the covebase material is contaminated with ACM mastic.

7. **Floor tile mastic (sample set 07):** The adhesive associated with the floor tiles installed in the CMP Control Room was identified as ACM. Though the tiles themselves tested negative for asbestos, it is assumed that the tiles and mastic would be removed together, as the tile is contaminated with ACM mastic.

8. **Lab countertop (sample set 11):** A small section of black asbestos-cement countertop was identified in the chemistry lab within the Unit 1 & 2 area of the Powerhouse Building, immediately surrounding the sink.

9. **Interior window glazing (sample sets 13, 14, 15, SH-01, SH-04):** The glazing compound adhering the glass panes into the fixed steel-sash window units in all sections of the Powerhouse Building, and Screen Houses 1 and 2 were identified as ACM. It is noted that the formerly exterior windows on the north and south ends of the Units 1 & 2 area are "trapped" by subsequent additions and exist on the building interior today. It is assumed that these window units would be removed whole-component rather than abated in situ; cost estimates are presented accordingly.

10. **Asbestos-cement components within electrical panels (Sample set 16):** Two types of asbestos-cement components were identified within large-unit electrical boxes, predominantly within the Units 1 & 2 building section. Both the black and gray panels and "blocks" are asbestos-containing.

11. **Exterior window caulk (sample sets C-01, C-05, C-09):** The caulkings adhering the fixed-sash steel windows into the masonry openings on the Powerhouse Building exterior were each identified as asbestos-containing.

12. **Roof flashings (samples R-16, R-17, R-18, R-19):** Samples of roof flashing materials collected from the perimeter of the upper-level roofs on Units 3 & 4 area, as well as the entire perimeter of the contiguous "rear upper roof" running along the west side of the Powerhouse Building were identified as ACM.

13. ***Presumed Asphalt Roofing (PACM):*** As noted above, Ransom was not able to access the upper level roof areas over the Unit 5 area of the Powerhouse Building, due to height/safety concerns, and the fact that the interior of this unit has been dismantled. Therefore any asphalt-based roofing identified on this level during future renovation/demolition should be treated as PACM until sampling and analysis can confirm or refute presumption.

14. **Exterior door caulk (sample sets C-11, C-12):** ACM caulkings were identified on the exteriors of Screen Houses 1 and 2, surrounding the perimeter of entry and/or overhead doors.

15. **Foundation repair caulk (sample sets C-04, C-10):** Limited areas of ACM caulking were observed applied to foundation cracks on the Units 3 & 4 area, east elevation exterior, and the Screen House 3 exterior.

The MEDEP requires consultants to advise the building owner or owner's agent whenever the asbestos analytical laboratory has reported suspect ACM below ten percent asbestos. The owner or owner's agent

may either elect to treat these materials as positive for asbestos, or have the samples re-analyzed using an alternate method as listed below:

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

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

Several of the asbestos-containing materials identified during Ransom's investigation fall within this range. However, based on the nature of the materials identified and the concentrations of asbestos fiber detected, re-analysis is not recommended at this time.

A listing of all samples collected, analytical results, and estimated quantities of confirmed ACM can be found in Tables 2 and 3. A copy of the laboratory analytical reports can be found in Attachment C.

Asbestos fibers present potential health hazards when they become airborne. Federal regulations suggest that ACM may be managed in-place, as long as it remains intact, undamaged, and in good condition. Current regulations require that asbestos-containing building materials be removed, if they will be disturbed by demolition, renovation, or other building maintenance activities. ACM identified at the Site that will be impacted by future renovation or demolition will require removal, prior to the initiation of these activities. ACM abatement should be performed using approved methods in accordance with applicable federal and state regulations. ACM should be removed by a licensed asbestos abatement contractor and in accordance with a project design prepared by a certified asbestos abatement project designer, except where exempt from applicable rules.

Asbestos-containing asphalt-based roofing materials, as well as exterior caulks, glazings, and sealants are exempt from MEDEP asbestos abatement regulations, provided that these materials are removed wholly intact and are not sawed, sanded, grinded, cut, or drilled during demolition or renovation. OSHA regulations still apply, and it is generally recommended that State of Maine-licensed asbestos abatement contractors conduct the removal of all ACM identified. All asbestos-containing waste generated from this project would be considered a "special waste" and require disposal in a landfill permitted to accept asbestos.

PCBS IN BUILDING MATERIALS

PCBs may be present in building materials (including caulking, glazing, adhesives, and paints) in buildings constructed or renovated between 1950 and 1978. PCB-containing building products are considered PCB Bulk Product Waste by the U.S. EPA if the concentration of PCBs in the material is greater than or equal to 50 milligrams per kilogram (mg/kg). Building materials with PCB concentrations $\geq$ 50 mg/kg are not authorized for use under *Part 761—Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions* and must be managed accordingly.

The definition of PCB Bulk Product Waste also includes building materials that have been coated or serviced with PCBs. Masonry, wood, metals, and other building materials that are purposely coated with PCB-containing products are regulated as PCB Bulk Product Waste if the product coating the building materials contains PCBs at concentrations ≥ 50 mg/kg *and* the affected building materials are removed from use with the coating product adhered to the substrate. If PCBs have leached into the underlying substrate at concentrations exceeding 1 mg/kg, and the underlying substrate is to be managed separately from the PCB-containing product, the underlying substrate must be managed as PCB Remediation Waste.

To evaluate the potential presence of PCBs in building materials, Ransom collected 20 bulk samples of caulk and paint from the Site buildings for confirmatory laboratory analysis. The samples were placed in laboratory-supplied glassware, placed in a cooler with ice, and delivered under chain-of-custody to Alpha Analytical, Inc. (Alpha) of Westborough, Massachusetts for PCB analysis via U.S. EPA Method 8082A and using the Soxhlet extraction method, U.S. EPA Method 3540C.

One paint sample was identified with a PCB concentration of 63.5 mg/kg, which was applied to the interior walls of the CMP Control Room. The PCBs detected in the sample were identified as a combination of Aroclors 1254 and 1260. These materials are considered PCB Bulk Product Waste and are subject to regulation under federal PCB regulations. Accordingly, these materials constitute an "unauthorized use" under 40 CFR §761, and remediation will be required prior to any building demolition or renovation that would impact the paint, to comply with the federal PCB regulations.

Sampling of the plaster substrate for PCB content was not performed as part of this HBMI; therefore the degree to which PCBs may have penetrated into the underlying substrate is not known. Based on our experience with similar projects, it is assumed that PCBs may have leached into the semi-porous plaster substrate at concentrations above federal cleanup levels. It is therefore assumed that the most cost-effective remediation approach would likely be whole-component removal of the plaster, which should also be performed by licensed abatement personnel. The abatement cost estimate presented is therefore based on this whole-component remedial approach.

Seven additional paint samples and two caulk samples submitted for laboratory analysis exhibited PCB concentrations above laboratory reporting limits, but below 50 mg/kg. These materials are not a regulated waste under the federal PCB regulations.

Laboratory results from PCB testing are provided in Table 4 and a copy of the laboratory analytical data report is included as Appendix C.

LEAD-BASED PAINT

An inspection for the presence of LBP was conducted using a direct-reading hand-held X-ray Fluorescence (XRF) analyzer manufactured by Innov-X. The inspection included readings collected from a number of substrates, including steel, concrete, plaster, brick and wood. Ransom collected a total of 59 XRF readings from various building components and surfaces at the Site. Testing results are provided in Table 5. Please note that the LBP inspection conducted during this HBMI is a screening level inspection and does not constitute a U.S. EPA/HUD-compliant lead survey, which may be required for certain residential redevelopment projects.

HUD has established a standard for characterizing LBP as any paint containing 1.0 milligram per square centimeter (mg/cm^2) lead, as tested using an XRF analyzer, or 0.5 percent lead by weight for paint chips. These materials are considered to be "lead-based paint" according to Section 1017 of the *Residential Lead-Based Paint Hazard Reduction Act of 1992* (also referred to as Title X). HUD LBP guidelines only apply to housing funded by the federal government. (While they are not regulatory considerations in commercial or industrial applications, these guidelines are a useful reference for assessing hazards associated with lead in paint in non-residential settings.) When paint contains lead in concentrations greater than 1.0 mg/cm^2 or 0.5 percent by weight, special care should be taken when conducting activities that impact this paint. Given the potential for residential end-use of the Site-buildings, the U.S. EPA *Renovation, Repair and Painting Rule* (the RRP Rule) may apply to renovation work associated with Site redevelopment, as discussed further below.

Lead was detected on painted surfaces at the Site. Handling of components coated with lead-containing paint *at any concentration* requires compliance with the OSHA lead standard (*Lead in Construction*, 29 CFR 1926.62). When surfaces covered in paint containing lead are impacted by abrasive blasting, torch burning, or similar activities that generate significant dust or fumes, hazardous airborne concentrations can be generated even if the lead content is below the HUD standard. Under the existing conditions, facility maintenance staff or contractors may perform demolition, renovation, abatement, stabilization, cleanup, and daily operations in buildings that have lead-based paint or lead-containing paint, provided that the requirements in the OSHA lead standard are met.

The U.S. EPA RRP rule, as outlined in 40 CFR 745, applies to housing and child-occupied facilities built before 1978. Under this rule, any work done for compensation that disturbs more than 6 square feet of LBP in a housing unit or child-occupied facility constructed before 1978 must be done by certified "lead-safe renovators," employed by certified contractors. In general, LBP is assumed to be present, unless a certified inspector or renovator determines that there is less than the specified level of lead in components affected by the renovation. Contractors are required to test for LBP before beginning any renovation. Qualified contractors must take U.S. EPA-approved training classes, provide specified information to owners and occupants, and comply with the work practice standards, record-keeping requirements, and notification requirements specified in the RRP Rule. Please note that in recent practice, RRP requirements have been levied against building renovation projects that are not current child-occupied facilities but are planned for a known residential end-use.

To determine the required method for the disposal of items that are coated with LBP and are not household waste, the U.S. EPA, MEDEP, and/or the waste receiving facility may require representative sampling of the debris to determine the quantity of lead that would be expected to leach into the environment, if the debris were disposed of in a landfill. The representative sample(s) would be analyzed by Toxicity Characteristic Leaching Procedure (TCLP). If concentrations are 5 milligrams per liter (mg/l) or greater, the debris must be disposed of as hazardous waste. If concentrations are less than 5 mg/l, the debris is not regulated, and materials may be disposed of as general construction debris. To minimize the total volume of hazardous waste (if present), segregating hazardous from non-hazardous waste may be advisable.

OTHER HAZARDOUS AND POTENTIALLY HAZARDOUS MATERIALS

As part of our inspection, Ransom also conducted an assessment for other hazardous and potentially hazardous equipment and fixtures identified at the Site, typically classified, handled, and disposed as "universal" wastes. Specifically, Ransom's survey included an inspection for:

Polychlorinated Biphenyls

PCB-containing oil is sometimes found in compressor oils, hydraulics fluids, and the dielectric fluid of older electrical transformers and the capacitors associated with older fluorescent light ballasts. Although electrical equipment is currently required to be properly labeled indicating the presence or absence of PCBs, this has not always been the case. Ransom observed fluorescent lighting fixtures containing electronic ballasts inside the Site buildings, which may have PCB-containing components.

If fluorescent lighting fixtures are to be replaced, disposed, or otherwise disturbed during future redevelopment activities, Ransom recommends that all ballasts be inspected for the "No PCBs" label, prior to demolition or renovation activities. Fluorescent light ballasts without the "No PCBs" label is presumed to contain PCBs and should be managed as hazardous waste and recycled or disposed of in accordance with applicable federal and state regulations. The cost of disposal of these ballasts is typically considerably less than the cost of testing the capacitor fluid for PCB content.

Please note that pad-mounted electrical transformers were identified both within and on the exterior of the Powerhouse Building. PCB-containing oil may currently or historically have been present in the electrical transformers. The electrical transformers are being assessed by a Phase II Environmental Site Assessment (ESA), performed concurrently with this HBMI. The results of the Phase II ESA are presented under separate cover.

Also note that the inventory of PCB-containing universal wastes is exclusive of the assessment for PCBs in building materials (caulks and paints), which is discussed in detail above.

Mercury-Containing Components

Mercury-containing components, such as fluorescent light tubes, "high-intensity discharge" (HID) mercury vapor lamps, and thermostat switches are classified as Universal Waste and are regulated by the U.S. EPA under 40 CFR Parts 260–273. The Universal Waste Rule provides streamlined management requirements tailored to several different kinds of waste. The types of waste covered by the Universal Waste Rule are frequently thrown in the trash by unregulated households and small businesses. Classifying an item as a Universal Waste provides flexibility for its proper management and can prevent the item from entering municipal waste streams. Instead, it can be readily collected and properly disposed of at a hazardous waste facility. Ransom observed numerous fluorescent light tubes (including compact fluorescents), HID lamps, and thermostats which are assumed to contain mercury.

Components presumed to contain mercury should be removed and recycled in accordance with Universal Waste regulations prior to or during proposed redevelopment activities that may impact them.

This survey of mercury-containing universal wastes does not constitute the "Mercury Equipment Inventory" described in our October 2018 Proposed Scope of Work and Cost Estimate. As previously noted, significant quantities of former mercury containing equipment have been observed in electrical and

control panels and associated with process equipment throughout the Powerhouse Building. Much of this former mercury containing equipment is tagged noting its mercury was removed between 1993 and 2004; however, no report detailing this removal action or an inventory of equipment containing mercury has been located to date. During our universal waste survey, Ransom did conduct limited air quality screening, to ensure safe working conditions for our inspectors. Our air screening did not indicate current exposure hazards relative to mercury, but readings taken within the drained reservoirs of these units did indicate some residual contamination.

Ozone-Depleting Substances

Certain compounds used in air conditioning and refrigeration equipment have been identified by the U.S. EPA as ozone depleting substances (ODS), due to their potential to accelerate the breakdown of stratospheric ozone. The U.S. EPA promulgated regulation 40 CFR 82 (*Protection of Stratospheric Ozone*) under Title VI of the Clean Air Act Amendments of 1990 (CAAA), which includes the phase-out of production and importing of ODS in the United States. Under Title VI of the Clean Air Act (CAA), the U.S. EPA established a schedule for phasing out most ODS by the year 2000, with the implementation of additional controls to minimize ODS emissions for the remaining materials.

Before initiating demolition or renovation activities, the U.S. EPA recommends identifying refrigeration or air-conditioning equipment within a home or building, recovering the refrigerant, and either sending the refrigerant to a U.S. EPA-certified reclaimer, sending the refrigerant to a permitted destruction facility, or safely storing the refrigerant. Section 608 of the CAA prohibits the intentional venting of refrigerants into the atmosphere during the disposal of equipment, although the release of *de minimis* quantities during the process of making good faith efforts to comply with these regulations is not subject to penalty.

Ransom observed several assumed ODS-containing building components or fixtures as part of our inspection. If such items are to be disturbed and/or disposed during future renovation/demolition, they should be managed according to the guidance above.

Pigeon Guano

Ransom identified significant areas of pigeon droppings in several areas of the Powerhouse Building, predominantly within the Unit 5 area. Certain bird droppings are known to cause respiratory disease in humans; this material should be removed as part of any future abatement phase, in order to mitigate exposure to future construction or maintenance personnel.

A full line-item listing of hazardous and potentially hazardous materials identified during our survey is provided in Table 6.

CONCLUSIONS AND RECOMMENDATIONS

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

1. Large quantities of asbestos-containing materials were identified at the Site. Materials identified as ACM that may be impacted by future renovation or demolition of the Site

buildings should be properly removed for off-Site disposal, prior to or during such activities;

2. Certain additional materials (i.e. roofing on Boiler Unit 5 upper roof sections) were not able to be accessed or sampled and are presumed to be asbestos-containing (PACM). Materials identified as PACM should be treated as ACM, until future sampling and laboratory testing can confirm or refute presumption;

3. Some painted surfaces inspected exhibited lead concentrations high enough to delineate the materials as "lead-based" according to United States Housing and Urban Development (HUD) guidelines. These guidelines apply to federal housing projects and are referenced herein for comparison purposes only. General and/or demolition contractors may perform demolition of surfaces coated with LBP or lead-containing coatings, provided that the handling of components coated with paint containing lead *at any concentration* (referred to as lead-containing paint) complies with Occupational Safety and Health Administration's (OSHA's) lead standards;

4. PCBs were detected in one paint sample at a concentration greater than 50 milligrams per kilogram (mg/kg); this paint and any contaminated substrate materials are considered PCB Bulk Product Waste and are subject to management under the federal PCB regulations, 40 CFR §761. Removal of this paint and potentially PCB-contaminated substrates would be necessary prior to or concurrent with demolition activities that would impact them;

5. During the course of this investigation, Ransom also inventoried universal waste items at the Site, including fluorescent bulbs, high-intensity discharge lamps, electronic ballasts, and refrigerant compressors, that may contain mercury, PCBs, and ozone-depleting substances (ODS), respectively. Disposal of each of these items is also subject to hazardous and/or universal waste disposal requirements;

6. Limited air screening for mercury vapor conducted in support of Ransom's HBMI inspection did not indicate a current exposure hazard but did detect residual contamination associated with several former mercury-containing devices. Ransom recommends a full inventory of such units, documenting the quantity and location of former/drained mercury equipment; and

7. Ransom's inspection also identified significant areas of pigeon droppings, which are known to pose a risk for respiratory disease in humans. These areas of bird droppings should also be remediated, to mitigate future health risks to building occupants or construction/demolition personnel.

COST ESTIMATES

Based on the conditions observed during our investigation and industry standards in recent years, Ransom has provided budgetary cost estimates for the abatement of the identified asbestos-containing materials, PCB paint and substrate, as well as the removal of other hazardous and potentially hazardous materials identified on Site. Budgetary cost estimates associated with materials or items presumed to contain

asbestos, or other hazardous materials may be eliminated, if future testing indicates these materials are negative.

The budgetary cost estimates also assume that all identified ACM will be abated, regardless of condition or remodeling status. Intact ACM and other regulated wastes may potentially be managed in-place, and may not necessarily require removal, as long as it remains intact, undamaged, and in good condition.

Asbestos-containing roofing materials, and exterior caulks and window glazings may be exempt from MEDEP asbestos abatement regulations, depending on the work practices employed in their removal. Cost savings may be achieved by performing these particular tasks under applicable OSHA requirements, rather than a full regulated abatement approach.

Line-item cost estimates for these materials are provided in Tables 7, 8, and 9. Ransom recommends that these tables be removed and retained, prior to providing copies of this report to contractors to obtain competitive bids for this work. Please note that the budgetary cost estimates presented, herein, are not intended to be quotes for these services, rather general engineering cost estimates for project planning purposes. Due to the complexity and asbestos-intensive nature of this Site, conventional cost estimating tools may not be as well-suited for reliable budgetary figures as bid prices obtained directly from professional asbestos estimators. Ransom recommends soliciting bids, quotes, or estimates from one or more abatement firms to confirm or modify the estimates presented.

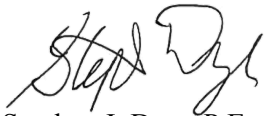
No cost estimate for remediation of PCB-impacted building materials is presented as part of this report, due to the wide range of potential costs, based on variables including substrate contamination, cleanup approach, preparation and approval of a U.S. EPA compliant work plan if necessary, etc. Ransom will continue to work with Mason Station LLC to address the identified PCB-impacted building materials and other PCB issues identified during the Phase II ESA, which are subject to regulation under 40 CFR §761,

If you have any questions regarding the information in this report please do not hesitate to contact any of the undersigned.

Sincerely,

RANSOM CONSULTING, INC.

Lucas Hathaway
Hazardous Materials Specialist



Stephen J. Dyer, P.E.
Senior Project Manager

LDH/SJD: mes
Attachments

TABLE 1: ROOFING CORE CUTS AND CORRESPONDING SAMPLE LOCATIONS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Core Cut Number[1]	Sample ID	Roof Field Profile[2,3]	Location
01	R-01	**Tar &Gravel; BUR**; Concrete Deck	Units 3/4 Upper Roofs
02	R-02		
03	R-03		
04	R-04	Rock ballast; EPDM; insulation; *BUR;* Concrete Deck	Rear (West) Roof Deck: Units 3/4 Area
05	NS	Rock ballast; EPDM; insulation; Concrete Deck	Rear (West) Roof Deck: Units 1/2 Area
06	NS	Rock ballast; EPDM; insulation; Steel Deck	Rear (West) Roof Deck: Unit 5 Area
07	R-07	Rock ballast; EPDM; insulation; *BUR;* Concrete Deck	Front (East) Roof Deck: Units 3/4 Area
08	R-08	Rock ballast; EPDM; insulation; *BUR* ; Concrete Deck	Front (East) Roof Deck: Units 1/2 Area
09	NS	Rock ballast; EPDM; insulation; Concrete Deck	Front (East) Roof Deck: Unit 5 Area
10	R-10	Rock ballast; EPDM; insulation; *BUR* ; Concrete Deck	Main/Central Roof Deck; Unit 5 Area
11	R-11	Rock ballast; EPDM; insulation; *BUR* ; Concrete Deck	Main/Central Roof Deck; Units 1/2 Area
12	R-12	Rock ballast; EPDM; insulation; *BUR* ; Concrete Deck	Main/Central Roof Deck; Units 3/4 Area
13	R-13	*Tar &Gravel; BUR* ; Gypsum Deck	Units 1/2 Upper Roofs
14	R-14		
15	R-15		
16	R-16	***Perimeter Flashing***	Units 3/4 Upper Roofs
17	R-17	***Perimeter Flashing***	Units 3/4 Upper Roofs
18	R-18	***Wall Flashing***	Rear (West) Roof Deck: Unit 5 Area
19	R-19	***Wall Flashing***	Rear (West) Roof Deck: Unit 5 Area

NOTES:
1. Locations of core cuts are shown on Figure 1.
2. BUR = Multi-ply "built-up" roofing. EPDM = Ethylene Propylene Diene Monomer (rubber membrane)
3. Materials shown in italic collected and submitted for lab analysis.
4 Materials shown in bold and italic tested positive for asbestos

TABLE 2: SUMMARY OF KNOWN/LABELED ASBESTOS-CONTAINING MATERIALS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Powerhouse Building Area[1]

	Boiler Unit 1	Boiler Unit 2	Boiler Unit 3	Boiler Unit 4	Boiler Unit 5
Boiler/Heater/Large unit lagging (SF)[2]	8,000	8,000	17,000	17,000	0
Tank jacketing (SF)	1,750	1,750	1,700	1,700	0
Pipe/Duct covering >18 inch diameter (SF)	3,750	3,750	4,150	4,150	300
Pipe covering ≤18 inch diameter (LF)	6,000	6,000	4,750	4,750	0

NOTES:
1. Boiler unit areas 1 & 2 and 3 & 4 were inspected as contiguous, "paired" units, each with nearly identical equipment configurations. ACM quantities observed are therefore divided equally within these "paired" systems.
2. Most or all materials presented above were labeled and/or banded as asbestos-containing; no further testing was conducted.
3. The quantities presented include cleanup of ACM debris due to water-damaged and other deteriorated insulation materials.

TABLE 3: SUMMARY OF ASBESTOS TESTING RESULTS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Material	Location	Sample Number	Asbestos Quantity and Type[2,4]	Estimated Quantity[3]
Powerhouse Building				
Block type pipe insulation	Boiler 5 Unit - stockpiled	01A through 01C	NAD	
9-inch x 9-inch floor tile	*CMP control room*	*02A through 02C*	*NAD*	*900 SF*
Acoustic ceiling tile	CMP control room	03A through 03C	NAD	
Base coat plaster	CMP control room	04A through 04C	NAD	
Black covebase	*CMP control room*	*05A through 05C*	*NAD*	*120 LF*
Covebase mastic	**CMP control room**	**06A**	**4.6% Chrysotile**	**120 LF**
		06B and 06C	**NA/PS**	
Floor tile mastic	**CMP control room**	**07A**	**1.71% Chrysotile**	**900 SF**
			NA/PS	
Skim coat plaster	CMP control room	08A through 08C	NAD	
Black boiler coating	Boilers 1 & 2 Unit - ground floor	09A through 09C	NAD	
Lab hood lining	Boilers 1 & 2 Unit - chemistry lab	10A through 10C	NAD	
Lab countertop	**Boilers 1 & 2 Unit - chemistry lab**	**11A**	**8% Chrysotile**	**24 SF**
		11B and 11C	**NA/PS**	
Yellow sheet flooring	Boilers 3 & 4 Unit - first floor break room	12A through 12C	NAD	
Interior window glazing	**Boilers 1 & 2 Unit**	**13A**	**1.40% Chrysotile**	
		13B and 13C	**NA/PS**	
Interior window glazing	**Boilers 3 & 4 Unit**	**14A**	**1.17% Chrysotile**	
		14B and 14C	**NA/PS**	
Interior window glazing	**Boiler 5 Unit**	**15A**	**1.49% Chrysotile**	
		15A and 15C	**NA/PS**	
Black electrical panel components	**Various/Throughout**	**16A**	**35% Chrysotile**	**150 Units**
		16B and 16C	**NA/PS**	
Gray cement electrical panel lining	***Various/Throughout***	***PACM***	***NS***	
Exterior window caulk	**Boilers 1 & 2 Unit**	**C-01A**	**2.31% Chrysotile**	**131 Windows**
		C-01B and C-01C	**NA/PS**	
Exterior door caulk	Boilers 1 & 2 Unit - main entry	C-02A through C-02C	NAD	
Exterior masonry caulk	Boilers 1 & 2 Unit - east elevation	C-03A	0.54% Chrysotile	
		C-03B	0.71% Chrysotile	
		C-03C	0.33% Chrysotile	
Exterior foundation caulk - vertical seams	**Boilers 3 & 4 Unit - east elevation**	**C-04A**	**2.19% Chrysotile**	**15 LF**
		C-04B and C-04C	**NA/PS**	
Exterior window caulk	**Boilers 3 & 4 Unit - east elevation**	**C-05A**	**4.98% Chrysotile**	**91 Windows**
		C-05B and C-05C	**NA/PS**	
Exterior window caulk	**Boilers 3 & 4 Unit - north elevation**	**C-06A**	**1.49% Chrysotile**	
		C-06B and C-06C	**NA/PS**	
Alumunum replacement window caulk	Boilers 1 through 5 Units	C-07A through C-07C	NAD	
Piping wall breech caulk	Boilers 3 & 4 Unit - west elevation	C-08A through C-08C	NAD	
Exterior window caulk	**Boiler 5 Unit - south elevation**	**C-09A**	**1.6% Chrysotile**	**155 Windows**
		C-09B and C-09C	**NA/PS**	
Asphalt roofing	Upper level roof decks: Units 3/4 Area	R-01	NAD	
Asphalt roofing	Rear (West) Roof Deck: Units 3/4 Area	R-02	NAD	
Asphalt roofing	Rear (West) Roof Deck: Units 1/2 Area	R-03	NAD	
Asphalt roofing	Rear (West) Roof Deck: Unit 5 Area	R-04	NAD	
Asphalt roofing	Front (East) Roof Deck: Units 3/4 Area	R-07	NAD	
Asphalt roofing	Front (East) Roof Deck: Units 1/2 Area	R-08	NAD	
Asphalt roofing	Main/Central Roof Deck; Unit 5 Area	R-10	NAD	
Asphalt roofing	Main/Central Roof Deck; Units 1/2 Area	R-11	NAD	
Asphalt roofing	Main/Central Roof Deck; Units 3/4 Area	R-12	NAD	
Asphalt roofing	Upper level roof decks: Units 1/2 Area	R-13	NAD	
Asphalt roofing	Upper level roof decks: Units 1/2 Area	R-14	NAD	
Asphalt roofing	Upper level roof decks: Units 1/2 Area	R-15	NAD	
Asphalt roofing	***Upper level roof decks: Unit 5 Area***	***NS***	***PACM***	***5,200 SF***
Perimeter flashing	**Upper level roof decks: Units 3/4 Area**	**R-16**	**17.9% Chrysotile**	**700 LF**
Perimeter flashing	**Upper level roof decks: Units 3/4 Area**	**R-17**	**14.38% Chrysotile**	
Wall flashing	**Rear (West) Roof Deck: entire**	**R-18**	**17.23% Chrysotile**	**800 LF**
Wall flashing	**Rear (West) Roof Deck: entire**	**R-19**	**12.88% Chrysotile**	
Screen House 1				
Asphalt roofing	Roof deck	SH-03A through SH-03C	NAD	
Interior window glazing	**All windows**	**SH-04A**	**1.19% Chrysotile**	**10 Windows**
		SH-04B and SH-04C	**NA/PS**	
Door caulk	**Entry door**	**C-11A**	**1.21% Chrysotile**	**18 LF (1 door)**
		C-11B and C-11C	**NA/PS**	
Screen House 2 and Hydrogen Vault				
Interior window glazing	**All windows**	**SH-01A**	**1.16% Chrysotile**	**11 Windows**
		SH-01B and SH-01C	**NA/PS**	
Asphalt roofing	Roof deck	SH-02A through SH-02C	NAD	
Window, overhead door, and entry door caulk	**Exterior - all windows and doors**	**C-12A**	**1.19% Chrysotile**	**11 Windows + 50**
		C-12B and C-12C	**NA/PS**	**LF (2 doors)**
Screen House 3				
Asphalt roofing	Roof deck	SH-05A through SH-05C	NAD	
Masonry repair caulk	**Exterior**	**C-10A**	**1.75% Chrysotile**	**20 LF**
		C-10B and C-10C	**NA/PS**	
Site/Underground				
ACM insulated pipes	Powerhouse to Screen House 1	NS	NS	**180 LF (90x2)**

NOTES:
1. Samples were collected between November 5 and December 4, 2018 by Ransom Consulting, Inc., and were analyzed by Optimum Analytical and Consulting, LLC of Salem, NH.
2. NA/PS = not analyzed/positive stop. Sample sets are analyzed until asbestos is identified in an amount greater than one percent.
3. CF = Cubic Feet. SF = Square Feet. LF = Linear Feet. EA = Each. NA = Not Applicable.
4. NAD = No asbestos detected; *PACM = Presumed Asbestos Containing Material.*
5. Samples shown in bold are ACM, samples shown in bold and italics are PACM.

TABLE 4: PCB IN BUILDING MATERIAL ANALYTICAL RESULTS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Sample Identification	Sample Location	Sample Matrix	Total PCBs (milligrams per kilogram [mg/kg])
C101	Boiler Unit 5 exterior - east elevation	Window caulk	BRL (0.304 - 0.608)
C102	Main/Historic front entry - east elevation	Door surround caulk	0.685
C103	Boilers Unit 3 & 4 exterior - east elevation	Masonry/foundation caulk	BRL (0.313 - 0.627)
C104	Boilers Unit 3 & 4 exterior - east elevation	Brick seam caulk	BRL (0.320 - 0.641)
C105	Boilers Unit 1 & 2 exterior - east elevation	Window caulk	BRL (0.270 - 0.539)
C106	Boilers Unit 3 & 4 exterior - north elevation	Window caulk	BRL (0.277 - 0.554)
C107	Boilers Unit 3 & 4 exterior - west elevation	Window caulk	0.684
C108	AST piping breech - west elevation	Steel plate caulk	0.337
C109	Boiler Unit 5 exterior - south elevation	Window caulk	BRL (0.309 - 0.617)
C110	Screen house 3 exterior	Seam repair caulk	BRL (0.312 - 0.625)
C111	Screen house 1 exterior	Window & door caulk	BRL (0.324 - 0.647)
C112	Screen house 2 exterior	Window & door caulk	BRL (0.316 - 0.633)
P101	Boilers Unit 3 & 4 ground floor break room	Green paint	2.69
P102	Boilers Unit 3 & 4 ground floor - concrete containment	Gray paint	14.5
P103	Boilers Unit 1 & 2 second level - floor	Blue paint	11.9
P104	Boilers Unit 3 & 4 third level - boiler	Black paint	0.674
P105	Boilers Unit 3 & 4 third level - wall	Green paint	1.54
P106	Boilers Unit 1 & 2 third floor - wall	White paint	4.14
P107	**Boiler Unit 5 third floor - CMP control room: plaster walls**	**Green/blue paint**	**63.5**
P108	Boiler Unit 5 ground floor - locker room wall	Tan paint	2.63

NOTES:
1. Samples were collected on November 6, 2018 by Ransom Consulting, Inc. and were analyzed by Alpha Analytical of Westborough, Massachusetts.
2. BRL ( ) = below reporting limit indicated in parentheses.
3. Values in **boldface** type indicate PCB concentrations which exceed a concentration of 50 mg/kg and are considered PCB Bulk Product Waste.

TABLE 5: LEAD BASED PAINT TESTING RESULTS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Reading Number	Building	Boiler Unit #	Level	Color	Substrate	Component	Lead Concentration (mg/cm^2)
1	**Powerhouse**	**1 & 2**	**Ground**	**Silver**	**Steel**	**Column**	**4.09**
2	Powerhouse	1 & 2	Ground	Silver	Steel	Conduit	BDL
3	**Powerhouse**	**1 & 2**	**Ground**	**Silver**	**Steel**	**Stair**	**4.48**
4	**Powerhouse**	**1 & 2**	**Ground**	**Black**	**Concrete**	**Floor**	**1.34**
5	Powerhouse	1 & 2	2nd	Black	Steel	Handrail	BDL
6	Powerhouse	1 & 2	2nd	White	CMU	Wall	0.04
7	Powerhouse	1 & 2	2nd	Blue	CMU	Wall	0.07
8	**Powerhouse**	**1 & 2**	**2nd**	**White**	**Steel**	**I-beam**	**3.67**
9	Powerhouse	1 & 2	2nd	Blue	Concrete	Floor	0.67
10	Powerhouse	1 & 2	3rd	Light green	CMU	Wall	BDL
11	**Powerhouse**	**1 & 2**	**3rd**	**Black**	**Steel**	**Handrail**	**1.41**
12	**Powerhouse**	**1 & 2**	**3rd**	**Silver**	**Steel**	**Column**	**2.61**
13	Powerhouse	3 & 4	6th	Black	Steel	Handrail	BDL
14	Powerhouse	3 & 4	6th	Silver	Steel	Column	BDL
15	Powerhouse	3 & 4	5th	Silver	Steel	Joist	BDL
16	**Powerhouse**	**3 & 4**	**4th**	**Silver**	**Steel**	**Column**	**2.83**
17	Powerhouse	3 & 4	4th	Black	Steel	Handrail	BDL
18	Powerhouse	3 & 4	3rd	Gray	Concrete	Floor	0.70
19	Powerhouse	3 & 4	3rd	Silver	Steel	Column	BDL
20	Powerhouse	3 & 4	2nd	Light green	CMU	Wall	BDL
21	Powerhouse	3 & 4	2nd	Light green	CMU	Wall	BDL
22	**Powerhouse**	**3 & 4**	**2nd**	**Green**	**Wood**	**Restroom Door**	**2.96**
23	Powerhouse	3 & 4	2nd	White	CMU	Wall	0.04
24	Powerhouse	3 & 4	2nd	Silver	Steel	Column	BDL
25	Powerhouse	3 & 4	2nd	Silver	Steel	Conduit	BDL
26	Powerhouse	3 & 4	Ground	Black	Steel	Handrail	BDL
27	Powerhouse	3 & 4	Ground	White	Concrete	Wall	0.14
28	Powerhouse	3 & 4	Ground	Terra cotta	Block	Wall	BDL
29	Powerhouse	3 & 4	Ground	Silver	Steel	Stair	BDL
30	**Powerhouse**	**3 & 4**	**Ground**	**Green**	**CMU**	**Wall**	**2.67**
31	Powerhouse	5	Ground	Silver	Steel	Column	BDL
32	Powerhouse	5	Ground	White	Wood	Restroom Door	BDL
33	Powerhouse	5	2nd	Beige	Concrete	Restroom Wall	BDL
34	Powerhouse	5	2nd	White	Concrete	Ceiling	0.10
35	Powerhouse	5	2nd	White	CMU	Wall	0.05
36	Powerhouse	5	CMP control room	Green	Plaster	Wall	0.16
37	Powerhouse	5	CMP control room	Tan	Metal	Door	BDL
38	**Powerhouse**	**--**	**Exterior**	**Gray**	**Metal**	**Entry surround**	**4.05**
39	**Powerhouse**	**--**	**Exterior**	**Gray**	**Metal**	**Entry surround**	**>5.00**
40	Powerhouse	--	Exterior	Gray	Wood	Window trim	BDL
41	**Powerhouse**	**--**	**Exterior**	**White**	**Steel**	**Window sash**	**1.70**
42	**Powerhouse**	**--**	**Exterior**	**White**	**Steel**	**Window sash**	**1.54**
43	**Powerhouse**	**--**	**Exterior**	**Gray**	**Metal**	**Double door**	**>5.00**
44	**Powerhouse**	**--**	**Exterior**	**Gray**	**Metal**	**Double door trim**	**>5.00**
45	**Screen House 2**	**--**	**Exterior**	**Gray**	**Steel**	**Window sash**	**1.32**
46	**Screen House 2**	**--**	**Exterior**	**Gray**	**Steel**	**Window trim**	**4.52**
47	Screen House 2	--	Interior	Silver	Steel	Column	BDL
48	Screen House 2	--	Interior	Silver	Steel	Column	BDL
49	Screen House 1	--	Exterior	Gray	Steel	Door	0.14
50	Screen House 1	--	Interior	Gray	CMU	Wall	BDL
51	**Screen House 1**	**--**	**Interior**	**Silver**	**Steel**	**Column**	**2.18**
52	**Screen House 1**	**--**	**Interior**	**Silver**	**Steel**	**Column**	**1.90**
53	Red Pump House	--	Exterior	Red	CMU	Wall	BDL
54	Red Pump House	--	Exterior	Red	CMU	Wall	BDL
55	Hydrogen Vault	--	Exterior	White	Brick	Wall	BDL
56	Hydrogen Vault	--	Interior	White	Concrete	Ceiling	BDL
57	Screen House 3	--	Interior	Green	Steel	Column	0.30
58	Screen House 3	--	Interior	Green	Steel	Column	0.22
59	Screen House 3	--	Interior	Green	Wood	Door	BDL

NOTES:
1 Samples were analyzed on December 6, 2016 by Ransom Consulting, Inc. using an Innov-X brand hand-held x-ray fluorescence analyzer.
2 The HUD threshold concentration for LBP is 1.0 milligrams lead per square centimeter (mg/cm2), or 0.5 percent lead by weight for paint chips. Concentrations exceeding the HUD threshold concentration are shown in bold.
3. BDL = Below instrument detection limit (0.01 mg/cm^2)

TABLE 6: INVENTORY OF OTHER HAZARDOUS/POTENTIALLY HAZARDOUS MATERIALS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Component	Hazard	Location	Total Quantity	Units
Fluorescent light ballasts	PCBs	Throughout	210	EA
Fluorescent light tubes (incl. CFL)	Mercury	Throughout	575	EA
High-pressure sodium lights	CFCs	Throughout	95	EA
Window/wall mounted AC units	CFCs	Throughout	6	EA
Paint and associated plaster	PCBs	CMP Control Room	650	SF
Pigeon guano	Biological	Unit 5 Area[3]	2000	SF

NOTES:
1. While our inspection did not identify unlabeled or suspect PCB-containing ballasts, it is recommended that each be inspected during renovation/demolition phase.
2. EA = each; SF = Square feet
3 Pigeon droppings were observed in each Unit Area, predominantly in the Boiler Unit 5. It is assumed that this hazard would be cleaned up concurrent with asbestos debris in other Units.

TABLE 7: REMOVAL AND DISPOSAL COST ESTIMATES FOR ASBESTOS-CONTAINING MATERIALS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Material	Quantity	Unit	Unit Cost	Total
Boiler Unit #1, Ancillary Equipment, and Deteriorated ACM Debris[2,3]				
Boiler/Heater/Large Unit lagging	8,000	SF	$75	$600,000
Tank Jacketing	1,750	SF	$30	$52,500
Pipe/Duct covering >18-inch diameter	3,750	SF	$30	$112,500
Pipe covering ≤18-inch diameter	6,000	LF	$25	$150,000
			Boiler Unit #1 subtotal	**$915,000**
Boiler Unit #2, Ancillary Equipment, and Deteriorated ACM Debris				
Boiler/Heater/Large Unit lagging	8,000	SF	$75	$600,000
Tank Jacketing	1,750	SF	$30	$52,500
Pipe/Duct covering >18-inch diameter	3,750	SF	$30	$112,500
Pipe covering ≤18-inch diameter	6,000	LF	$25	$150,000
			Boiler Unit #2 subtotal	**$915,000**
Boiler Unit #3, Ancillary Equipment, and Deteriorated ACM Debris				
Boiler/Heater/Large Unit lagging	17,000	SF	$75	$1,275,000
Tank Jacketing	1,700	SF	$30	$51,000
Pipe/Duct covering >18-inch diameter	4,150	SF	$30	$124,500
Pipe covering ≤18-inch diameter	4,750	LF	$25	$118,750
			Boiler Unit #3 subtotal	**$1,569,250**
Boiler Unit #4, Ancillary Equipment, and Deteriorated ACM Debris				
Boiler/Heater/Large Unit lagging	17,000	SF	$75	$1,275,000
Tank Jacketing	1,700	SF	$30	$51,000
Pipe/Duct covering >18-inch diameter	4,150	SF	$30	$124,500
Pipe covering ≤18-inch diameter	4,750	LF	$25	$118,750
			Boiler Unit #4 subtotal	**$1,569,250**
Boiler Unit #5, Ancillary Equipment, and Deteriorated ACM Debris				
Boiler/Heater/Large Unit lagging	0	SF	$75	$0
Tank Jacketing	0	SF	$30	$0
Pipe/Duct covering >18-inch diameter	300	SF	$30	$9,000
Pipe covering ≤18-inch diameter	0	LF	$25	$0
			Boiler Unit #5 subtotal	**$9,000**
			Boiler Units #1 - #5 subtotal	**$4,977,500**
			Contingency (20%)[4]	**$1,000,000**
			Boiler Units #1 - #5 Total	**$5,977,500**
Other Asbestos-Containing Materials (ACM) and Presumed ACM (PACM)				
Powerhouse Building				
Covebase and associated mastic - CMP Control Room	120	LF	$8	$960
Floor tile and associated mastic - CMP Control Room	900	SF	$6	$5,400
Lab countertop - Chemistry lab	24	SF	$20	$480
Steel sash fixed windows (caulk and glaze) - Boilers #1 & #2 Units	131	EA	$250	$32,750
Steel sash fixed windows (caulk and glaze) - Boilers #3 & #4 Units	91	EA	$250	$22,750
Steel sash fixed windows (caulk and glaze) - Boiler #5 Unit	155	EA	$250	$38,750
Asbestos-cement components in electrical panels - Throughout	150	EA	$100	$15,000
Foundation caulk - Boilers #3 & #4 Unit - Exterior, east elevation	15	LF	$10	$150
Roof perimeter flashing - Upper level roof decks: Units #3 & #4	700	LF	$15	$10,500
Roof curb flashing - Rear (west) roof deck: entire perimeter	800	LF	$15	$12,000
Roof curb flashing - Rear (west) roof deck: entire perimeter	800	LF	$15	$12,000
Roof field - Boiler #5 Unit, upper/roof levels (PACM)	*5200*	*SF*	*$10*	*$52,000*
Screen House 1				
Steel sash fixed windows (Glaze)	10	EA	$150	$1,500
Entry door caulk	18	LF	$20	$360
Screen House 2				
Steel sash fixed windows (Caulk and glaze)	11	EA	$200	$2,200
Overhead and entry door caulk	50	LF	$10	$500
Screen House 3				
Masonry repair caulk	20	LF	$10	$200
Site/Underground				
ACM insulated underground piping	180	LF	$50	$9,000
			Other ACM and PACM subtotal	**$216,500**
			Contingency (20%)[4]	**$43,000**
			Other ACM and PACM Total	**$259,500**
			TOTAL ESTIMATED ASBESTOS ABATEMENT COST:	**$6,237,000**

NOTES:
1. SF = Square Feet; LF = Linear Feet; Each = Individual Unit
2. Costs for wholesale abatement of boiler units assumes cleanup of ACM debris/deteriorated insulation on floors and equipment.
3. It is assumed that piping ≤18"D would be removed via wrap-and-cut methods, while larger piping would be abated in situ.
4. A contingency is added to cover potential hidden costs and market variability.
5 Presumed asbestos-containing material (PACM) shown in italics.

TABLE 8: REMOVAL AND DISPOSAL/RECYCLING COST ESTIMATES FOR OTHER HAZARDOUS/POTENTIALLY HAZARDOUS MATERIALS
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

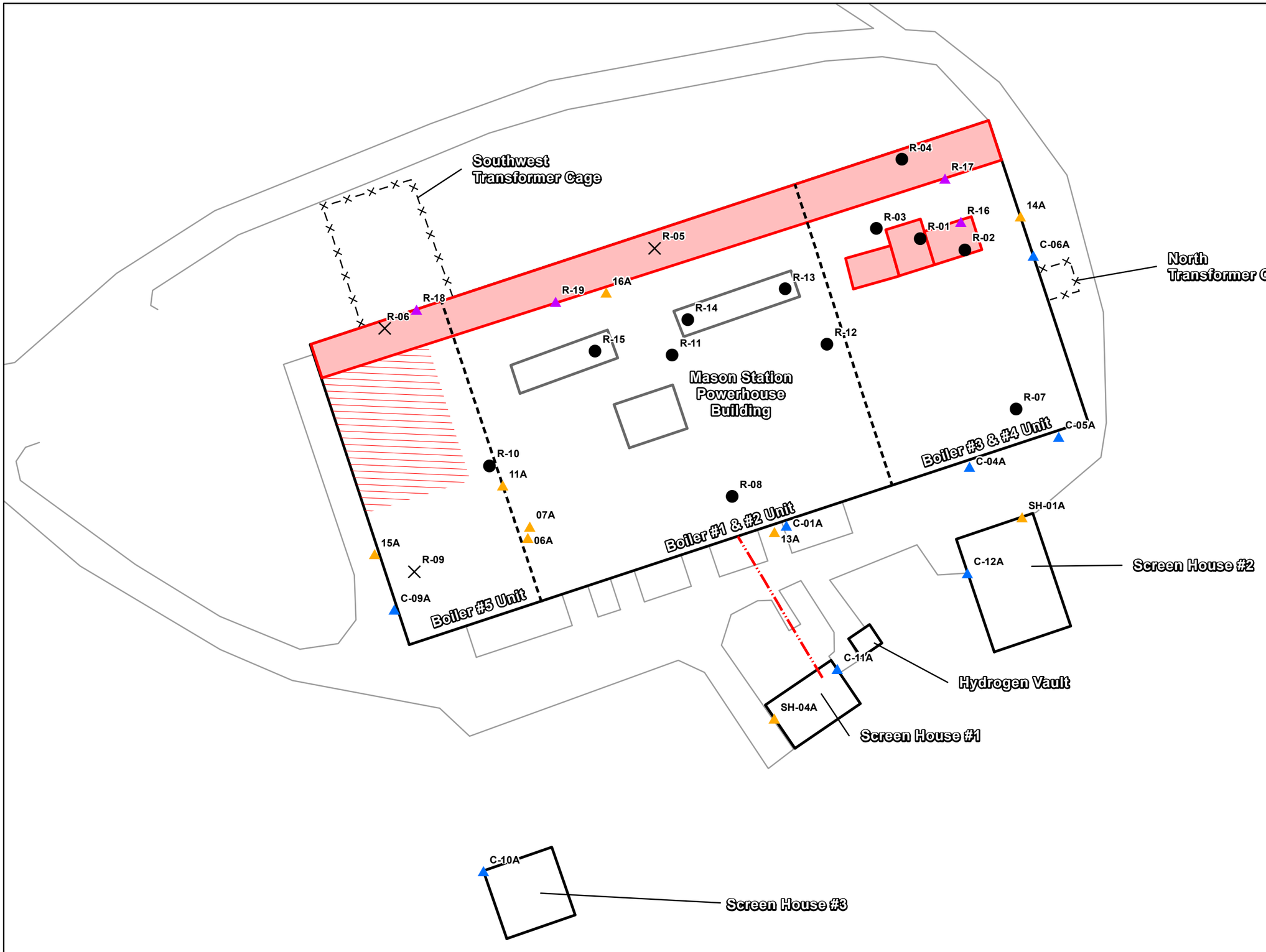
Material	Quantity	Units	Unit Cost	Total
Fluorescent light ballasts	210	EA	$8	$1,680
Fluorescent light tubes	575	EA	$3	$1,725
Window-mounted AC units	6	EA	$75	$450
High-pressure sodium lamps	95	EA	$10	$950
PCB paint and associated plaster (whole-component removal)	650	SF	$15	$9,750
Pigeon guano	2000	SF	$2	$4,000
Total removal and disposal/recycling cost Subtotal:				***$18,555***
Contingency:				***$1,750***
TOTAL OTHER HAZARDOUS MATERIALS:				**$20,305**

NOTES:
1. Cost estimates presented assume disposal of all fluorescent ballasts as PCB-containing. A cost savings may be achieved if some ballasts are determined to be non-PCB based on labelling.
2. Contingency costs are added to cover potential hidden costs and market variability.
3. EA = Each; SF = Square feet
4. While pigeon droppings were observed to lesser degrees in other Units, it is assumed this would be cleaned up concurrent with ACM debris in those areas.

TABLE 9: TOTAL REMOVAL AND DISPOSAL/RECYCLING COST ESTIMATE
Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Materials	Estimated Removal Costs
Confirmed/presumed asbestos-containing materials	$6,237,000
Other hazardous materials	$20,305
TOTAL:	**$6,257,305**

NOTE: See notes included in Table 7 and Table 8.



RANSOM
Consulting
Engineers
and Scientists

Legend & Notes

- R-05 — Roof Core Cut with No Suspect ACM
- R-01 — Roofing Sample Testing Negative for Asbestos
- C-01A — Caulking Sample Testing Positive for Asbestos
- R-16 — Roofing Sample Testing Positive for Asbestos
- 13A — Sample Testing Positive for Asbestos
- ACM Insulated Underground Piping
- ACM Roof Flashing
- PACM Roofing

Notes

1. Site Plan based on State of Maine Orthophotography
2. Some features are approximate in location and scale
3. This plan has been prepared for Mason Station, LLC. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 25 50

1 inch = 50 feet

Prepared For

Mason Station, LLC
485 West Putnam Avenue
Greenwich, Connecticut

Site Address

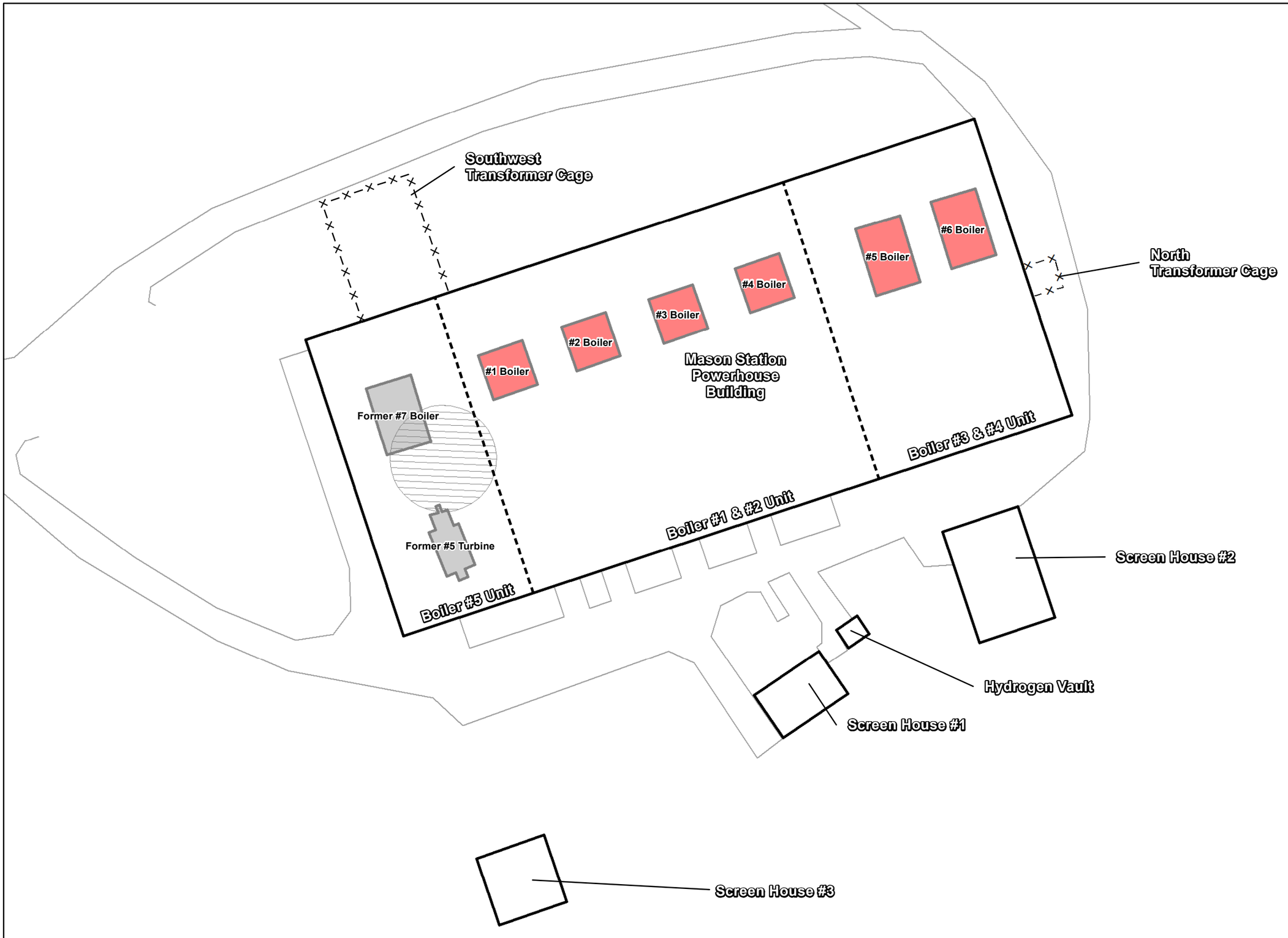
Mason Station
Birch Point Road
Wiscasset, Maine

171.06108 | Dec 2018

Figure 1

Site Layout and
Roof/Exterior Sampling Plan

X:\Ransom_NewEngland\Maine\Wiscasset_ME\MasonStation\MS_Wiscasset_ME_HBMI_F1_SL.mxd



RANSOM
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and Scientists

Legend & Notes

- Asbestos-Clad Large-Unit Process Equipment
- Area of Heaviest Pigeon Droppings
- Former Features

Notes

1. Site Plan based on State of Maine Orthophotography
2. Some features are approximate in location and scale
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Scale & Orientation

0 25 50

1 inch = 50 feet

Prepared For

Mason Station, LLC
485 West Putnam Avenue
Greenwich, Connecticut

Site Address

Mason Station
Birch Point Road
Wiscasset, Maine

171.06108 | Dec 2018

Figure 2

Ground Floor

X:\Ransom_NewEngland\Maine\Wiscasset_ME\MasonStation\MS_Wiscasset_ME_HBMI_F2_GF.mxd

RANSOM
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Engineers
and Scientists

Legend & Notes

11A ▲ Sample Testing Positive for Asbestos

Asbestos-Clad Large-Unit Process Equipment

Former Features

Notes

1. Site Plan based on State of Maine Orthophotography
2. Some features are approximate in location and scale
3. This plan has been prepared for Mason Station, LLC. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 25 50

1 inch = 50 feet

Prepared For

Mason Station, LLC
485 West Putnam Avenue
Greenwich, Connecticut

Site Address

Mason Station
Birch Point Road
Wiscasset, Maine

171.06108 | Dec 2018

Figure 3

Second Level

X:\Ransom_NewEngland\Maine\Wiscasset_ME\MasonStation\MS_Wiscasset_ME_HBMI_F3_2F.mxd

RANSOM
Consulting Engineers and Scientists

Legend & Notes

- 07A — Sample Testing Positive for Asbestos
- P107 — Sample Testing >50 ppm PCB
- Asbestos-Clad Large-Unit Process Equipment
- Former Features

Notes

1. Site Plan based on State of Maine Orthophotography
2. Some features are approximate in location and scale
3. This plan has been prepared for Mason Station, LLC. All other uses are not authorized unless written permission is obtained from Ransom Consulting, Inc.

Scale & Orientation

0 25 50

1 inch = 50 feet

Prepared For

Mason Station, LLC
485 West Putnam Avenue
Greenwich, Connecticut

Site Address

Mason Station
Birch Point Road
Wiscasset, Maine

171.06108 | Dec 2018

Figure 4

Third Level

X:\Ransom_NewEngland\Maine\Wiscasset_ME\MasonStation\MS_Wiscasset_ME_HBMI_F4_3F.mxd

ATTACHMENT A

Photograph Log

Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

Photograph Log

View of the front (east) elevation of the Powerhouse Building. View is to the northwest.

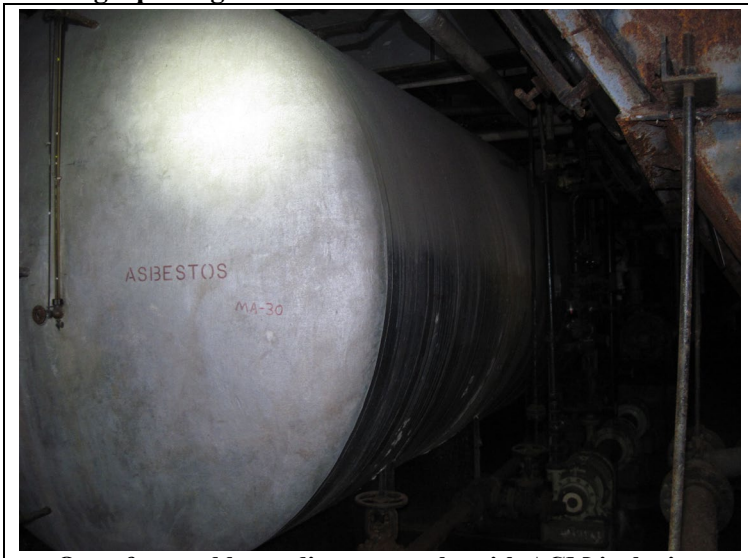
View of the north elevation of Powerhouse Building. View is to the south.

View of the rear (west) elevation of the Powerhouse Building. View is to the southeast.

View of the south elevation of the Powerhouse Building. View is to the north.

Boiler units and ductwork with ACM thermal jacketing/lagging

Vertical view of ACM jacketing on multi-story boiler process equipment



One of several large-diameter tanks with ACM jacketing observed throughout Powerhouse Building

Large-diameter water and steam piping observed throughout Powerhouse Building interior

Small-diameter (≤18”D) piping observed throughout Powerhouse Building interior

Asbestos-containing debris noted in several locations throughout Powerhouse Building interior

ACM debris on floor due to overhead water damage to pipe and unit insulation

Unit #5 Area of Powerhouse building, previously cleared of large-unit equipment, piping, and most ACM.

Oil heater unit appears to be only remaining ACM-insulated process equipment in Unit #5 area.

One of several electrical cabinets containing asbestos-cement paneling and other components

Closer view of asbestos-cement pieces within electrical panels. Black = sample set 16, gray = PACM

View of former CMP Control Room, located on the third floor

Interior view of former CMP Control Room

ACM mastic on vinyl covebase, CMP Control Room interior (Sample set 06)

Floor tile with ACM mastic, CMP control room interior (Sample set 07)

Lab countertop around sink in chemistry lab is asbestos-cement (Sample set 11)

All steel-sash windows have ACM glazing, building wide, including interior windows "trapped" by subsequent additions.

ACM roof flashing materials on rear (west) elevated roof section, and Units 3&4 upper areas (Samples R-16 - R-19)

Asbestos caulk on Units 1&2 windows (Sample set C-01)

Closer view of ACM caulk on Units 1&2 windows

ACM caulk on Units 3&4 concrete foundation (Sample set C-04)

Asbestos caulk on Units 3&4 windows, east elevation (Sample set C-05)

Closer view of ACM caulk on Units 3&4 windows, east side

Asbestos caulk on Units 3&4 windows, north elevation (Sample set C-06)

Closer view of ACM caulk on Units 3&4 windows, north side

Asbestos caulk on Unit 5 windows, south elevation (Sample set C-09)

Closer view of ACM caulk on Unit 5 windows

View of Screen House 1, including windows with ACM glazing (Sample set SH-04)

Asbestos-containing caulk on Screen House 1 exterior (Sample set C-11)

View of Screen House 1 (L) and Screen House 2 (R). Screen House 2 also has ACM window glazing (Sample set SH-01)

View of overhead and entry doors on Screen House 2, both with ACM perimeter caulk (Sample set C-12)

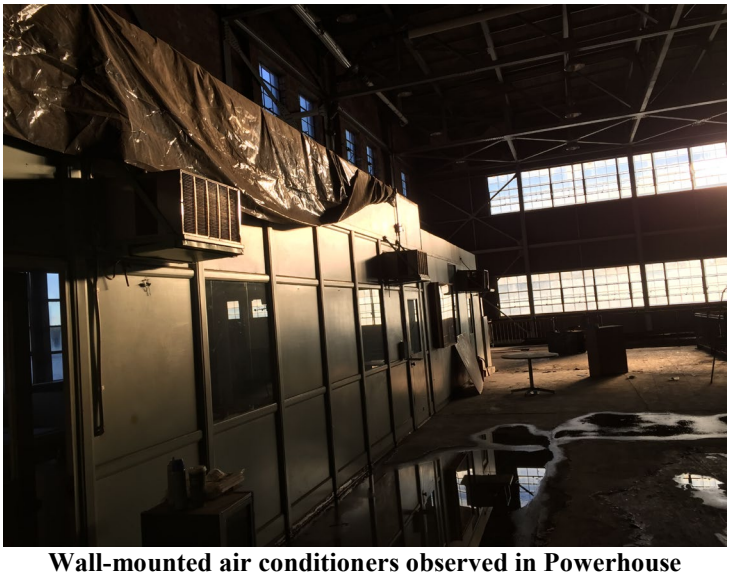
Closer view of asbestos-containing caulk on Screen House 2 exterior doors

View of Screen House 3. Only ACM identified is small quantity of caulk on concrete foundation (Sample set C-10)

Closer view of ACM caulk on Screen House 3 exterior foundation

PCB-containing paint on interior plaster walls within CMP control room, 3rd floor of Powerhouse Building (Sample P-07)

View of pigeon droppings, widespread throughout Unit 5 areas, ground floor.



Wall-mounted air conditioners observed in Powerhouse Building interior, to be managed as universal wastes.

View of wrapped boiler/process equipment, staged outside Powerhouse Building. Wrapped units were not inspected.

ATTACHMENT B

Certifications

Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

R.J. Enterprises, Inc.

51 River Road
Brunswick, ME 04011
(207) 373-0344

this is to certify that:

Lucas Hathaway

has completed the requisite 4 -hour refresher training, and has passed an examination for the

Asbestos Inspector Refresher

course pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646
and Maine State Regulations 06-096 CMR 425.5 (E)

6/15/18
Examination Date

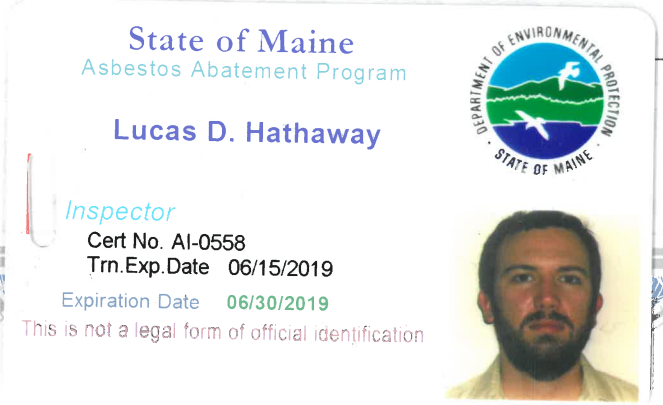
6/15/19
Expiration Date

100%
Test Score

Training Provider

Director of Training

IR-18-6-1-3
Certificate Number



United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101433-0

Optimum Analytical & Consulting LLC

Salem, NH

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 17025:2005. 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).

2018-04-01 through 2019-03-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

State of Maine
Department of Environmental Protection

LICENSE

Optimum Analytical & Consulting, LLC

Asbestos Analytical Laboratory
(Bulk)

License Number: LB-0067

Expiration Date: 03/31/2019

State of Maine
Department of Environmental Protection

LICENSE

Optimum Analytical & Consulting, LLC

Asbestos Analytical Laboratory
(Air)

License Number: LA-0065

Expiration Date: 03/31/2019

ATTACHMENT C

Laboratory Reports

Hazardous Building Materials Inventory
Mason Station
Wiscasset, Maine

OPTIMUM
Analytical and Consulting, LLC

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

Lucas Hathaway
Ransom Environmental Consultants, Inc
400 Commercial St
Portland ME 04101

Project Reference:	151.06070
Laboratory Batch #:	1827614
Date Samples Received:	11/20/2018
Date Samples Analyzed:	11/28/2018
Date of Final Report:	11/29/2018

SAMPLE IDENTIFICATION:

One Hundred Seven (107) samples from Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME project were submitted by Client on 11/20/2018

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

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-600/M4-82-020, EPA-600/ R-93-116). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter (<0.25µm) may not be detected by the PLM method. Floor tile and other resinously bound material may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additional analytical methods may be required. Optimum recommends using Transmission Electron Microscopy (TEM) for a more definitive analysis.

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

Use of the NVLAP and AIHA Logo in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

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

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

Jamie L. Noel
Laboratory Director

Kristina Scaviola
Laboratory Supervisor

NVLAP Lab ID#: 101433-0

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827614
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	11/05/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	11/20/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	11/28/2018
		REPORT DATE:	11/29/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-001 01A	Stockpiled: Unit 5 Hard-Pack Pipe Insulation, White	LAYER 1 100%	None Detected		Cellulose Fiber Synthetic Fiber Binder/Filler	1% 15% 84%
1827614-002 01B	Stockpiled: Unit 5 Hard-Pack Pipe Insulation, White	LAYER 1 100%	None Detected		Cellulose Fiber Synthetic Fiber Binder/Filler	1% 15% 84%
1827614-003 01C	Stockpiled: Unit 5 Hard-Pack Pipe Insulation, White	LAYER 1 100%	None Detected		Cellulose Fiber Synthetic Fiber Binder/Filler	1% 15% 84%
1827614-004 02A	CMP Control Room 9x9 Floor Tile, Green	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-005 02B	CMP Control Room 9x9 Floor Tile, Green	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-006 02C	CMP Control Room 9x9 Floor Tile, Green	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-007 03A	CMP Control Room Acoustic Ceiling Tile, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
1827614-008 03B	CMP Control Room Acoustic Ceiling Tile, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%
1827614-009 03C	CMP Control Room Acoustic Ceiling Tile, Brown	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	98% 2%

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827614
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	11/05/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	11/20/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	11/28/2018
		REPORT DATE:	11/29/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-010 04A	CMP Control Room Base Coat Plaster, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
1827614-011 04B	CMP Control Room Base Coat Plaster, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
1827614-012 04C	CMP Control Room Base Coat Plaster, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	3% 97%
1827614-013 05A	CMP Control Room Covebase, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-014 05B	CMP Control Room Covebase, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-015 05C	CMP Control Room Covebase, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-016 06A	CMP Control Room Covebase Mastic, Brown	LAYER 1 100%	Chrysotile	4.6%	Cellulose Fiber Binder/Filler	1% 94.4%
1827614-017 06B	CMP Control Room Covebase Mastic, Brown Note: Positive Stop	LAYER 1 100%				
1827614-018 06C	CMP Control Room Covebase Mastic, Brown Note: Positive Stop	LAYER 1 100%				
1827614-019 07A	CMP Control Room Floor Tile Mastic, Brown	LAYER 1 100%	Chrysotile	1.71%	Cellulose Fiber Binder/Filler	2% 96.29%

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827614
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	11/05/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	11/20/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	11/28/2018
		REPORT DATE:	11/29/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-020 07B	CMP Control Room Floor Tile Mastic, Brown Note: Positive Stop	LAYER 1 100%				
1827614-021 07C	CMP Control Room Floor Tile Mastic, Brown Note: Positive Stop	LAYER 1 100%				
1827614-022 08A	CMP Control Room Skim Coat Plaster, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-023 08B	CMP Control Room Skim Coat Plaster, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-024 08C	CMP Control Room Skim Coat Plaster, White	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-025 09A	Unit 1/2 - Ground Floor Boiler Coating, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-026 09B	Unit 1/2 - Ground Floor Boiler Coating, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-027 09C	Unit 1/2 - Ground Floor Boiler Coating, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-028 10A	Unit 1/2 - Lab Lab Hood Lining, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	8% 10% 82%

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827614
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	11/05/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	11/20/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	11/28/2018
		REPORT DATE:	11/29/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-029 10B	Unit 1/2 - Lab Lab Hood Lining, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	8% 10% 82%
1827614-030 10C	Unit 1/2 - Lab Lab Hood Lining, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	8% 10% 82%
1827614-031 11A	Unit 1/2 - Lab Lab Countertop, Black	LAYER 1 100%	Chrysotile	8%	Cellulose Fiber Binder/Filler	1% 91%
1827614-032 11B	Unit 1/2 - Lab Lab Countertop, Black Note: Positive Stop	LAYER 1 100%				
1827614-033 11C	Unit 1/2 - Lab Lab Countertop, Black Note: Positive Stop	LAYER 1 100%				
1827614-034 12A	Unit 3/4 - Lunch Room Sheet Flooring, Yellow/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 5% 30%
1827614-035 12B	Unit 3/4 - Lunch Room Sheet Flooring, Yellow/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 5% 30%
1827614-036 12C	Unit 3/4 - Lunch Room Sheet Flooring, Yellow/Brown	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	65% 5% 30%
1827614-037 13A	Units 1/2 Interior Window Glazing, Beige	LAYER 1 100%	Chrysotile	1.40%	Cellulose Fiber Binder/Filler	1% 97.6%

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827614
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	11/05/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	11/20/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	11/28/2018
		REPORT DATE:	11/29/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-038	Units 1/2					
13B	Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				
1827614-039	Units 1/2					
13C	Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				
1827614-040	Units 3/4					
14A	Interior Window Glazing, Gray	LAYER 1 100%	Chrysotile	1.17%	Cellulose Fiber Binder/Filler	1% 97.83%
1827614-041	Units 3/4					
14B	Interior Window Glazing, Gray Note: Positive Stop	LAYER 1 100%				
1827614-042	Units 3/4					
14C	Interior Window Glazing, Gray Note: Positive Stop	LAYER 1 100%				
1827614-043	Unit 5					
15A	Interior Window Glazing, Beige	LAYER 1 100%	Chrysotile	1.49%	Cellulose Fiber Binder/Filler	1% 97.51%
1827614-044	Unit 5					
15B	Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				
1827614-045	Unit 5					
15C	Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				
1827614-046	Screen House 2					
SH-01A	Interior Window Glazing, Beige	LAYER 1 100%	Chrysotile	1.16%	Cellulose Fiber Binder/Filler	1% 97.84%
1827614-047	Screen House 2					
SH-01B	Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827614
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	11/05/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	11/20/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	11/28/2018
		REPORT DATE:	11/29/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-048 SH-01C	Screen House 2 Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				
1827614-049 SH-02A	Screen House 2 Asphalt Roof, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-050 SH-02B	Screen House 2 Asphalt Roof, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-051 SH-02C	Screen House 2 Asphalt Roof, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-052 SH-03A	Screen House 1 Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	65% 35%
1827614-053 SH-03B	Screen House 1 Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	65% 35%
1827614-054 SH-03C	Screen House 1 Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	65% 35%
1827614-055 SH-04A	Screen House 1 Interior Window Glazing, Beige	LAYER 1 100%	Chrysotile	1.19%	Cellulose Fiber Binder/Filler	1% 97.81%
1827614-056 SH-04B	Screen House 1 Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				
1827614-057 SH-04C	Screen House 1 Interior Window Glazing, Beige Note: Positive Stop	LAYER 1 100%				

OPTIMUM
Analytical and Consulting, LLC
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BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-058	Exterior					
C-01A	Caulk, Beige	LAYER 1 100%	Chrysotile	2.31%	Cellulose Fiber Binder/Filler	1% 96.69%
1827614-059	Exterior					
C-01B	Caulk, Beige Note: Positive Stop	LAYER 1 100%				
1827614-060	Exterior					
C-01C	Caulk, Beige Note: Positive Stop	LAYER 1 100%				
1827614-061	Exterior					
C-02A	Caulk, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-062	Exterior					
C-02B	Caulk, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-063	Exterior					
C-02C	Caulk, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-064	Exterior					
C-03A	Caulk, Gray Note: Cementitious Gray Layer is ACM	LAYER 1 100%	Chrysotile	.54%	Cellulose Fiber Binder/Filler	1% 98.46%
1827614-065	Exterior					
C-03B	Caulk, Gray Note: Cementitious Gray Layer is ACM	LAYER 1 100%	Chrysotile	.71%	Cellulose Fiber Binder/Filler	1% 98.29%
1827614-066	Exterior					
C-03C	Caulk, Gray Note: Cementitious Gray Layer is ACM	LAYER 1 100%	Chrysotile	.33%	Cellulose Fiber Binder/Filler	1% 98.67%
1827614-067	Exterior					
C-04A	Caulk, Gray/Clear Note: Cementitious Gray Layer is ACM	LAYER 1 100%	Chrysotile	2.19%	Cellulose Fiber Binder/Filler	1% 96.81%

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-068	Exterior					
C-04B	Caulk, Gray/Clear Note: Positive Stop	LAYER 1 100%				
1827614-069	Exterior					
C-04C	Caulk, Gray/Clear Note: Positive Stop	LAYER 1 100%				
1827614-070	Exterior					
C-05A	Caulk, Gray	LAYER 1 100%	Chrysotile	4.98%	Cellulose Fiber Binder/Filler	2% 93.02%
1827614-071	Exterior					
C-05B	Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-072	Exterior					
C-05C	Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-073	Exterior					
C-06A	Caulk, Gray	LAYER 1 100%	Chrysotile	1.49%	Cellulose Fiber Binder/Filler	1% 97.51%
1827614-074	Exterior					
C-06B	Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-075	Exterior					
C-06C	Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-076	Exterior					
C-07A	Caulk, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-077	Exterior					
C-07B	Caulk, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-078 C-07C	Exterior Caulk, Gray	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-079 C-08A	Exterior Caulk, Clear	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-080 C-08B	Exterior Caulk, Clear	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-081 C-08C	Exterior Caulk, Clear	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	1% 99%
1827614-082 C-09A	Exterior Caulk, Gray	LAYER 1 100%	Chrysotile	1.6%	Cellulose Fiber Binder/Filler	1% 97.4%
1827614-083 C-09B	Exterior Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-084 C-09C	Exterior Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-085 C-10A	Exterior Caulk, White/Gray	LAYER 1 100%	Chrysotile	1.75%	Cellulose Fiber Binder/Filler	1% 97.25%
1827614-086 C-10B	Exterior Caulk, White/Gray Note: Positive Stop	LAYER 1 100%				
1827614-087 C-10C	Exterior Caulk, White/Gray Note: Positive Stop	LAYER 1 100%				

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-088 C-11A	Exterior Caulk, Gray	LAYER 1 100%	Chrysotile	1.21%	Cellulose Fiber Binder/Filler	1% 97.79%
1827614-089 C-11B	Exterior Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-090 C-11C	Exterior Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-091 C-12A	Exterior Caulk, Gray	LAYER 1 100%	Chrysotile	1.19%	Cellulose Fiber Binder/Filler	1% 97.81%
1827614-092 C-12B	Exterior Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-093 C-12C	Exterior Caulk, Gray Note: Positive Stop	LAYER 1 100%				
1827614-094 R-01	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	2% 98%
1827614-095 R-02	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	65% 35%
1827614-096 R-03	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	65% 35%
1827614-097 R-04	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	2% 98%

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-100 R-07	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	Chrysotile	.09%	Cellulose Fiber Binder/Filler	2% 97.91%
1827614-101 R-08	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	Chrysotile	.76%	Cellulose Fiber Binder/Filler	2% 97.24%
1827614-103 R-10	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Fibrous Glass Binder/Filler	2% 20% 78%
1827614-104 R-11	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	65% 35%
1827614-105 R-12	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	Chrysotile	.33%	Cellulose Fiber Binder/Filler	5% 94.67%
1827614-108 R-15	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	55% 45%
1827614-109 R-16	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	Chrysotile	17.9%	Cellulose Fiber Binder/Filler	35% 47.1%
1827614-110 R-17	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	Chrysotile	14.38%	Cellulose Fiber Binder/Filler	8% 77.62%
1827614-111 R-18	Main Building Roof Asphalt Roofing, Black	LAYER 1 100%	Chrysotile	17.23%	Cellulose Fiber Binder/Filler	8% 74.77%

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REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827614-112	Main Building Roof					
R-19	Asphalt Roofing, Black	LAYER 1	Chrysotile	12.88%	Cellulose Fiber	45%
		100%			Binder/Filler	42.12%

Analyst Signatory:

Jamie Noel

NVLAP Lab Code: 101433-0

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BULK SAMPLE ANALYSIS REPORT
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CONTACT:	Lucas Hathaway
DESCRIPTION:	PLM Analysis
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME

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ANALYST:	Jamie Noel

1827614

Client	Ransom Consulting, Inc. 400 Commercial St Portland ME 04101
Contact	Lucas Hathaway
Phone	207-772-2891
Project	Former Mason Station Power Pland
Location	Wiscasset, Maine
Ransom Client	Mason Station LLC
Ransom Project #	151.06070
Sample Date	11/5/18-11/12/18
Analysis	Bulk PLM w/GRM prep for NOB in accordance w/MEDEP
TAT	Standard. Results requested by 11/28.
Report Results to:	lucas.hathaway@ransomenv.com;
PO	11406
Notes/Requests	Positive stop for sample sets 01 through C-12. Please analyze ALL Roofing samples (no positive stop)

Sample ID	Material	Location
01A	Hard-pack pipe insulation	Stockpiled: Unit 5
01B	Hard-pack pipe insulation	Stockpiled: Unit 5
01C	Hard-pack pipe insulation	Stockpiled: Unit 5
02A	Green 9x9 floor tile	CMP control room
02B	Green 9x9 floor tile	CMP control room
02C	Green 9x9 floor tile	CMP control room
03A	Acoustic ceiling tile	CMP control room
03B	Acoustic ceiling tile	CMP control room
03C	Acoustic ceiling tile	CMP control room
04A	Base coat plaster	CMP control room
04B	Base coat plaster	CMP control room
04C	Base coat plaster	CMP control room
05A	Covebase	CMP control room
05B	Covebase	CMP control room
05C	Covebase	CMP control room
06A	Covebase mastic	CMP control room
06B	Covebase mastic	CMP control room

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06C	Covebase mastic	CMP control room
07A	Floor tile mastic	CMP control room
07B	Floor tile mastic	CMP control room
07C	Floor tile mastic	CMP control room
08A	Skim coat plaster	CMP control room
08B	Skim coat plaster	CMP control room
08C	Skim coat plaster	CMP control room
09A	Boiler coating	Unit 1/2 - Ground floor
09B	Boiler coating	Unit 1/2 - Ground floor
09C	Boiler coating	Unit 1/2 - Ground floor
10A	Lab hood lining	Unit 1/2 - lab
10B	Lab hood lining	Unit 1/2 - lab
10C	Lab hood lining	Unit 1/2 - lab
11A	Lab countertop	Unit 1/2 - lab
11B	Lab countertop	Unit 1/2 - lab
11C	Lab countertop	Unit 1/2 - lab
12A	Sheet flooring	Unit 3/4 - lunch room
12B	Sheet flooring	Unit 3/4 - lunch room
12C	Sheet flooring	Unit 3/4 - lunch room
13A	Interior window glazing	Units 1/2
13B	Interior window glazing	Units 1/2
13C	Interior window glazing	Units 1/2
14A	Interior window glazing	Units 3/4
14B	Interior window glazing	Units 3/4
14C	Interior window glazing	Units 3/4
15A	Interior window glazing	Unit 5
15B	Interior window glazing	Unit 5
15C	Interior window glazing	Unit 5
SH-01A	Interior window glazing	Screen house 2
SH-01B	Interior window glazing	Screen house 2
SH-01C	Interior window glazing	Screen house 2
SH-02A	Asphalt roofing	Screen house 2
SH-02B	Asphalt roofing	Screen house 2
SH-02C	Asphalt roofing	Screen house 2

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1827614

SH-03A	Asphalt roofing	Screen house 1
SH-03B	Asphalt roofing	Screen house 1
SH-03C	Asphalt roofing	Screen house 1
SH-04A	Interior window glazing	Screen house 1
SH-04B	Interior window glazing	Screen house 1
SH-04C	Interior window glazing	Screen house 1
C-01A	Caulk	Exterior
C-01B	Caulk	Exterior
C-01C	Caulk	Exterior
C-02A	Caulk	Exterior
C-02B	Caulk	Exterior
C-02C	Caulk	Exterior
C-03A	Caulk	Exterior
C-03B	Caulk	Exterior
C-03C	Caulk	Exterior
C-04A	Caulk	Exterior
C-04B	Caulk	Exterior
C-04C	Caulk	Exterior
C-05A	Caulk	Exterior
C-05B	Caulk	Exterior
C-05C	Caulk	Exterior
C-06A	Caulk	Exterior
C-06B	Caulk	Exterior
C-06C	Caulk	Exterior
C-07A	Caulk	Exterior
C-07B	Caulk	Exterior
C-07C	Caulk	Exterior
C-08A	Caulk	Exterior
C-08B	Caulk	Exterior
C-08C	Caulk	Exterior
C-09A	Caulk	Exterior
C-09B	Caulk	Exterior
C-09C	Caulk	Exterior
C-10A	Caulk	Exterior

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1827614

C-10B	Caulk	Exterior
C-10C	Caulk	Exterior
C-11A	Caulk	Exterior
C-11B	Caulk	Exterior
C-11C	Caulk	Exterior
C-12A	Caulk	Exterior
C-12B	Caulk	Exterior
C-12C	Caulk	Exterior
R-01	Asphalt roofing	Main building roof
R-02	Asphalt roofing	Main building roof
R-03	Asphalt roofing	Main building roof
R-04	Asphalt roofing	Main building roof
R-07	Asphalt roofing	Main building roof
R-08	Asphalt roofing	Main building roof
R-10	Asphalt roofing	Main building roof
R-11	Asphalt roofing	Main building roof
R-12	Asphalt roofing	Main building roof
R-15	Asphalt roofing	Main building roof
R-16	Asphalt roofing	Main building roof
R-17	Asphalt roofing	Main building roof
R-18	Asphalt roofing	Main building roof
R-19	Asphalt roofing	Main building roof

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Non-Friable Organically Bound Gravimetric Reduction Worksheet

Batch Number: 1827614 Prep Date: 11/21/2018 Prep Analyst: JLN

Sample ID:	Crucible ID	Crucible Weight A	Sample Weight B	Crucible + Ashed Sample C	Ashed Sample Weight D= (C-A)	% Reduction of Sample (D/B)*100	Filter Weight G	Ashed Sub-Sample Weight H	Filtered Sample Weight I	Acid Insoluble Inorganic Weight : J= I-G	% Reduction k= (J*100)/H	CVE % Asbestos in Residue	% Asbestos =(K* CVE % Asb)/100	Asbestos Type	Prep 1	Prep 2	Prep 3	Prep 4
02A	233	21.492	0.126	21.591	0.099	78.57%	0.039	0.099	0.1	0.061	61.62%	0.00%	0.00%	NAD				
02B	27	24.055	0.151	24.164	0.109	72.19%	0.037	0.109	0.108	0.071	65.14%	0.00%	0.00%	NAD				
02C	237	22.247	0.106	22.326	0.079	74.53%	0.04	0.079	0.09	0.05	63.29%	0.00%	0.00%	NAD				
05A	223	22.178	0.122	22.241	0.063	51.64%	0.04	0.063	0.075	0.035	55.56%	0.00%	0.00%	NAD				
05B	250	21.729	0.110	21.774	0.045	40.91%	0.037	0.045	0.061	0.024	53.33%	0.00%	0.00%	NAD				
05C	207	21.261	0.112	21.315	0.054	48.21%	0.039	0.054	0.069	0.03	55.56%	0.00%	0.00%	NAD				
06A	204	23.065	0.123	23.125	0.06	48.78%	0.041	0.06	0.087	0.046	76.67%	6.00%	4.60%	Chry	7	7	5	5
07A	E	25.659	0.254	25.809	0.15	59.06%	0.041	0.15	0.169	0.128	85.33%	2.00%	1.71%	Chry	2	2	3	1
9A	232	21.746	0.116	21.801	0.055	47.41%	0.037	0.055	0.05	0.013	23.64%	0.00%	0.00%	NAD				
9B	219	20.830	0.106	20.893	0.063	59.43%	0.043	0.063	0.065	0.022	34.92%	0.00%	0.00%	NAD				
9C	W	26.065	0.105	26.133	0.068	64.76%	0.043	0.068	0.086	0.043	63.24%	0.00%	0.00%	NAD				
12A	227	20.517	0.100	20.533	0.016	16.00%	0.039	0.016	0.053	0.014	87.50%	0.00%	0.00%	NAD				
12B	236	20.288	0.111	20.313	0.025	22.52%	0.039	0.025	0.062	0.023	92.00%	0.00%	0.00%	NAD				
12C	221	20.628	0.108	20.654	0.026	24.07%	0.039	0.026	0.065	0.026	100.00%	0.00%	0.00%	NAD				
13A	200	23.454	0.107	23.555	0.101	94.39%	0.039	0.101	0.12	0.081	80.20%	1.75%	1.40%	Chry	2	2	1	2
14A	R	26.849	0.178	27.005	0.156	87.64%	0.04	0.156	0.131	0.091	58.33%	2.00%	1.17%	Chry	2	2	2	2
15A	228	21.494	0.111	21.601	0.107	96.40%	0.039	0.107	0.11	0.071	66.36%	2.25%	1.49%	Chry	3	2	3	1
SH-01A	218	22.666	0.116	22.776	0.11	94.83%	0.037	0.11	0.101	0.064	58.18%	2.00%	1.16%	Chry	2	2	2	2
SH-02A	241	20.695	0.111	20.727	0.032	28.83%	0.038	0.032	0.067	0.029	90.62%	0.00%	0.00%	NAD				
SH-02B	248	19.908	0.118	19.941	0.033	27.97%	0.04	0.033	0.064	0.024	72.73%	0.00%	0.00%	NAD				
SH-02C	239	21.292	0.118	21.299	0.007	5.93%	0.043	0.007	0.045	0.002	28.57%	0.00%	0.00%	NAD				
SH-03A	222	21.335	0.177	21.381	0.046	25.99%	0.044	0.046	0.068	0.024	52.17%	0.00%	0.00%	NAD				
SH-03B	U	29.546	0.199	29.567	0.021	10.55%	0.043	0.021	0.047	0.004	19.05%	0.00%	0.00%	NAD				
SH-03C	70	27.264	0.273	27.326	0.062	22.71%	0.041	0.062	0.073	0.032	51.61%	0.00%	0.00%	NAD				
SH-04A	238	21.839	0.166	21.98	0.141	84.94%	0.041	0.141	0.125	0.084	59.57%	2.00%	1.19%	Chry	2	3	2	1
C-01A	225	20.510	0.103	20.585	0.075	72.82%	0.04	0.075	0.073	0.033	44.00%	5.25%	2.31%	Chry	5	6	5	5
C-02A	76	28.040	0.122	28.132	0.092	75.41%	0.041	0.092	0.105	0.064	69.57%	0.00%	0.00%	NAD				
C-02B	P	28.950	0.100	29.033	0.083	83.00%	0.042	0.083	0.098	0.056	67.47%	0.00%	0.00%	NAD				
C-02C	231	21.592	0.114	21.677	0.085	74.56%	0.04	0.085	0.092	0.052	61.18%	0.00%	0.00%	NAD				
C-03A	51	24.226	0.128	24.312	0.086	67.19%	0.04	0.086	0.077	0.037	43.02%	1.25%	0.54%	Chry	1	2	1	1
C-03B	M	28.237	0.105	28.308	0.071	67.62%	0.041	0.071	0.07	0.029	40.85%	1.75%	0.71%	Chry	2	2	2	1
C-03C	75	26.898	0.108	26.961	0.063	58.33%	0.042	0.063	0.07	0.028	44.44%	0.75%	0.33%	Chry	1	0	1	1
C-04A	67	26.467	0.107	26.56	0.093	86.92%	0.043	0.093	0.111	0.068	73.12%	3.00%	2.19%	Chry	3	3	2	4
C-05A	210	24.489	0.102	24.543	0.054	52.94%	0.042	0.054	0.085	0.043	79.63%	6.25%	4.98%	Chry	5	6	8	6
C-06A	B	28.952	0.130	29.065	0.113	86.92%	0.042	0.113	0.117	0.075	66.37%	2.25%	1.49%	Chry	2	3	2	2
C-07A	226	20.029	0.162	20.105	0.076	46.91%	0.041	0.076	0.062	0.021	27.63%	0.00%	0.00%	NAD				
C-07B	213	22.390	0.114	22.435	0.045	39.47%	0.041	0.045	0.056	0.015	33.33%	0.00%	0.00%	NAD				
C-07C	71	27.260	0.155	27.335	0.075	48.39%	0.04	0.075	0.071	0.031	41.33%	0.00%	0.00%	NAD				
C-08A	217	28.342	0.152	28.424	0.082	53.95%	0.042	0.082	0.092	0.05	60.98%	0.00%	0.00%	NAD				
C-08B	100	27.666	0.106	27.727	0.061	57.55%	0.041	0.061	0.102	0.061	100.00%	0.00%	0.00%	NAD				
C-08C	22	25.239	0.114	25.302	0.063	55.26%	0.041	0.063	0.095	0.054	85.71%	0.00%	0.00%	NAD				
C-09A	41	24.875	0.170	24.997	0.122	71.76%	0.04	0.122	0.127	0.087	71.31%	2.25%	1.60%	Chry	2	2	3	2
C-10A	214	30.490	0.104	30.563	0.073	70.19%	0.04	0.073	0.104	0.064	87.67%	2.00%	1.75%	Chry	2	2	2	2
C-11A	220	21.152	0.135	21.215	0.063	46.67%	0.04	0.063	0.078	0.038	60.32%	2.00%	1.21%	Chry	2	2	2	2
C-12A	12	24.796	0.103	24.821	0.025	24.27%	0.042	0.025	0.059	0.017	68.00%	1.75%	1.19%	Chry	1	2	2	2
R-01	50	23.070	0.163	23.096	0.026	15.95%	0.043	0.026	0.063	0.02	76.92%	0.00%	0.00%	NAD				
R-02	26	25.584	0.151	25.591	0.007	4.64%	0.041	0.007	0.046	0.005	71.43%	0.00%	0.00%	NAD				
R-03	208	23.253	0.148	23.254	0.001	0.68%	0.043	0.001	0.044	0.001	100.00%	0.00%	0.00%	NAD				
R-04	242	22.207	0.145	22.216	0.009	6.21%	0.042	0.009	0.043	0.001	11.11%	0.00%	0.00%	NAD				
R-07	216	21.372	0.101	21.383	0.011	10.89%	0.041	0.011	0.042	0.001	9.09%	1.00%	0.09%	Chry	1	2	0	1
R-08	V	28.232	0.120	28.269	0.037	30.83%	0.042	0.037	0.07	0.028	75.68%	1.00%	0.76%	Chry	1	1	1	1
R-10	212	21.884	0.133	21.89	0.006	4.51%	0.042	0.006	0.043	0.001	16.67%	0.00%	0.00%	NAD				
R-11	224	22.015	0.142	22.025	0.01	7.04%	0.041	0.01	0.048	0.007	70.00%	0.00%	0.00%	NAD				
R-12	57	23.964	0.129	23.97	0.006	4.65%	0.04	0.006	0.044	0.004	66.67%	0.50%	0.33%	Chry	0	1	1	0
R-15	246	20.782	0.161	20.82	0.038	23.60%	0.039	0.038	0.051	0.012	31.58%	0.00%	0.00%	NAD				
R-16	244	22.262	0.118	22.331	0.069	58.47%	0.041	0.069	0.106	0.065	94.20%	19.00%	17.90%	Chry	20	19	21	16
R-17	205	19.539	0.113	19.618	0.079	69.91%	0.041	0.079	0.105	0.064	81.01%	17.75%	14.38%	Chry	16	18	16	21
R-18	78	29.683	0.168	29.717	0.034	20.24%	0.04	0.034	0.073	0.033	97.06%	17.75%	17.23%	Chry	15	18	22	16
R-19	z	27.727	0.152	27.814	0.087	57.24%	0.039	0.087	0.122	0.083	95.40%	13.50%	12.88%	Chry	12	14	12	16

OPTIMUM
Analytical and Consulting, LLC

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

Lucas Hathaway
Ransom Environmental Consultants, Inc
400 Commercial St
Portland ME 04101

Project Reference:	151.06070
Laboratory Batch #:	1827784
Date Samples Received:	12/07/2018
Date Samples Analyzed:	12/11/2018
Date of Final Report:	12/11/2018

SAMPLE IDENTIFICATION:

Six (6) samples from Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME project were submitted by Client on 12/07/2018

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

ANALYTICAL METHOD:

Analytical procedures were performed in accordance with the U.S. Environmental Protection Agency (EPA) Recommended Method for the Determination of Asbestos in Bulk Samples by Polarized Light Microscopy and Dispersion Staining (PLM/DS)(EPA-600/M4-82-020, EPA-600/ R-93-116). This report relates only to those samples analyzed, and may not be indicative of other similar appearing materials existing at this, or other sites. Quantification of asbestos content was determined by Calibrated Visual Estimation. Optimum is not responsible for sample collection activities or analytical method limitations. The laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

In any given material, fibers with a small diameter (<0.25µm) may not be detected by the PLM method. Floor tile and other resinously bound material may yield a false negative if the asbestos fibers are too small to be resolved using PLM. Additional analytical methods may be required. Optimum recommends using Transmission Electron Microscopy (TEM) for a more definitive analysis.

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

Use of the NVLAP and AIHA Logo in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology or the American Industrial Hygiene Association.

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

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

Jamie L. Noel
Laboratory Director

Kristina Scaviola
Laboratory Supervisor

NVLAP Lab ID#: 101433-0

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

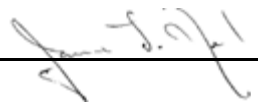
BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc	**ORDER #:**	1827784
ADDRESS:	400 Commercial St	**PROJECT #:**	151.06070
CITY / STATE / ZIP:	Portland ME 04101	**DATE COLLECTED:**	12/04/2018
CONTACT:	Lucas Hathaway	**COLLECTED BY:**	Client
DESCRIPTION:	PLM Analysis	**DATE RECEIVED:**	12/07/2018
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME	**ANALYSIS DATE:**	12/11/2018
		REPORT DATE:	12/11/2018
		ANALYST:	Jamie Noel

REPORT OF ANALYSIS

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Asbestos Type	(%)	Non-Asbestos Components	(%)
1827784-001	Electrical Panels					
15A	Black Cement Board, Black/Gray	LAYER 1 100%	Chrysotile	35%	Cellulose Fiber Binder/Filler	1% 64%
		Total % Asbestos:		35.0%	**Total % Non-Asbestos:**	65.0%
1827784-002	Electrical Panels					
15B	Black Cement Board, Black/Gray Note: Positive Stop	LAYER 1 100%				
1827784-003	Electrical Panels					
15C	Black Cement Board, Black/Gray Note: Positive Stop	LAYER 1 100%				
1827784-004	Screen House 5					
SH-05A	Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	25% 75%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1827784-005	Screen House 5					
SH-05B	Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	25% 75%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%
1827784-006	Screen House 5					
SH-05C	Asphalt Roofing, Black	LAYER 1 100%	None Detected		Cellulose Fiber Binder/Filler	25% 75%
		Total % Asbestos:	No Asbestos Detected		**Total % Non-Asbestos:**	100.0%

Analyst Signatory: 

Jamie Noel

NVLAP Lab Code: 101433-0

OPTIMUM
Analytical and Consulting, LLC
85 Stiles Road, Suite 201, Salem, NH 03079 Phone: (603)-458-5247

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY

PLM (EPA-600/M4-82-020, EPA-600/ R-93-116) NVLAP Lab Code: 101433-0

CLIENT:	Ransom Environmental Consultants, Inc
ADDRESS:	400 Commercial St
CITY / STATE / ZIP:	Portland ME 04101
CONTACT:	Lucas Hathaway
DESCRIPTION:	PLM Analysis
LOCATION:	Mason Station, LLC; Former Mason Station Power Plant; Wiscasset, ME

ORDER #:	1827784
PROJECT #:	151.06070
DATE COLLECTED:	12/04/2018
COLLECTED BY:	Client
DATE RECEIVED:	12/07/2018
ANALYSIS DATE:	12/11/2018
REPORT DATE:	12/11/2018
ANALYST:	Jamie Noel

Client	Ransom Consulting, Inc. 400 Commercial St Portland ME 04101
Contact	Lucas Hathaway
Phone	207-772-2891
Project	Former Mason Station Power Pland
Location	Wiscasset, Maine
Ransom Client	Mason Station LLC
Ransom Project #	151.06070
Sample Date	12/4/2018
Analysis	Bulk PLM w/GRM prep for NOB in accordance w/MEDEP
TAT	Results requested by EOD Monday 12/10
Report Results to:	lucas.hathaway@ransomenv.com;
PO	11406
Notes/Requests	Positive stop.

Sample ID	Material	Location
16A	Black cement board	Electrical panels
16B	Black cement board	Electrical panels
16C	Black cement board	Electrical panels
SH-05A	Asphalt roofing	Screen House 5
SH-05B	Asphalt roofing	Screen House 5
SH-05C	Asphalt roofing	Screen House 5

ANALYTICAL REPORT

Lab Number:	L1845804
Client:	Ransom Consulting, Inc. 400 Commercial Street Suite 404 Portland, ME 04101-4660
ATTN:	Steve Dyer
Phone:	(207) 772-2891
Project Name:	MASON STATION
Project Number:	171.06108
Report Date:	11/16/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1845804-01	C101	SOLID	WISCASSET, ME	11/05/18 13:00	11/08/18
L1845804-02	C102	SOLID	WISCASSET, ME	11/05/18 13:15	11/08/18
L1845804-03	C103	SOLID	WISCASSET, ME	11/05/18 13:30	11/08/18
L1845804-04	C104	SOLID	WISCASSET, ME	11/05/18 13:40	11/08/18
L1845804-05	C105	SOLID	WISCASSET, ME	11/05/18 13:45	11/08/18
L1845804-06	C106	SOLID	WISCASSET, ME	11/05/18 14:00	11/08/18
L1845804-07	C107	SOLID	WISCASSET, ME	11/05/18 14:15	11/08/18
L1845804-08	C108	SOLID	WISCASSET, ME	11/05/18 14:30	11/08/18
L1845804-09	C109	SOLID	WISCASSET, ME	11/05/18 14:45	11/08/18
L1845804-10	C110	SOLID	WISCASSET, ME	11/05/18 15:00	11/08/18
L1845804-11	C111	SOLID	WISCASSET, ME	11/05/18 15:15	11/08/18
L1845804-12	C112	SOLID	WISCASSET, ME	11/05/18 15:30	11/08/18
L1845804-13	P101	SOLID	WISCASSET, ME	11/05/18 15:45	11/08/18
L1845804-14	P102	SOLID	WISCASSET, ME	11/05/18 15:50	11/08/18
L1845804-15	P103	SOLID	WISCASSET, ME	11/06/18 08:30	11/08/18
L1845804-16	P104	SOLID	WISCASSET, ME	11/06/18 09:00	11/08/18
L1845804-17	P105	SOLID	WISCASSET, ME	11/06/18 09:10	11/08/18
L1845804-18	P106	SOLID	WISCASSET, ME	11/06/18 09:30	11/08/18
L1845804-19	P107	SOLID	WISCASSET, ME	11/06/18 09:40	11/08/18
L1845804-20	P108	SOLID	WISCASSET, ME	11/06/18 10:40	11/08/18

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	MASON STATION	**Lab Number:**	L1845804
Project Number:	171.06108	**Report Date:**	11/16/18

Case Narrative (continued)

PCBs

WG1179157-1: The surrogate recoveries are reported from a diluted analysis in order to obtain results within the calibration.

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

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 11/16/18

ORGANICS

PCBS

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-01
Client ID: C101
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 13:00
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 08:26
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	608	--	1	A
Aroclor 1221	ND		ug/kg	608	--	1	A
Aroclor 1232	ND		ug/kg	608	--	1	A
Aroclor 1242	ND		ug/kg	304	--	1	A
Aroclor 1248	ND		ug/kg	608	--	1	A
Aroclor 1254	ND		ug/kg	608	--	1	A
Aroclor 1260	ND		ug/kg	608	--	1	B
Aroclor 1262	ND		ug/kg	608	--	1	A
Aroclor 1268	ND		ug/kg	304	--	1	A
PCBs, Total	ND		ug/kg	304	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-02
Client ID: C102
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 13:15
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 08:38
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	631	--	1	A
Aroclor 1221	ND		ug/kg	631	--	1	A
Aroclor 1232	ND		ug/kg	631	--	1	A
Aroclor 1242	ND		ug/kg	315	--	1	A
Aroclor 1248	ND		ug/kg	631	--	1	A
Aroclor 1254	ND		ug/kg	631	--	1	A
Aroclor 1260	685		ug/kg	631	--	1	B
Aroclor 1262	ND		ug/kg	631	--	1	A
Aroclor 1268	ND		ug/kg	315	--	1	A
PCBs, Total	685		ug/kg	315	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-03
Client ID: C103
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 13:30
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 08:51
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	627	--	1	A
Aroclor 1221	ND		ug/kg	627	--	1	A
Aroclor 1232	ND		ug/kg	627	--	1	A
Aroclor 1242	ND		ug/kg	313	--	1	A
Aroclor 1248	ND		ug/kg	627	--	1	A
Aroclor 1254	ND		ug/kg	627	--	1	A
Aroclor 1260	ND		ug/kg	627	--	1	A
Aroclor 1262	ND		ug/kg	627	--	1	A
Aroclor 1268	ND		ug/kg	313	--	1	A
PCBs, Total	ND		ug/kg	313	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-04
Client ID: C104
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 13:40
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 09:03
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	641	--	1	A
Aroclor 1221	ND		ug/kg	641	--	1	A
Aroclor 1232	ND		ug/kg	641	--	1	A
Aroclor 1242	ND		ug/kg	320	--	1	A
Aroclor 1248	ND		ug/kg	641	--	1	A
Aroclor 1254	ND		ug/kg	641	--	1	A
Aroclor 1260	ND		ug/kg	641	--	1	A
Aroclor 1262	ND		ug/kg	641	--	1	A
Aroclor 1268	ND		ug/kg	320	--	1	A
PCBs, Total	ND		ug/kg	320	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-05
Client ID: C105
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 13:45
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 09:15
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	539	--	1	A
Aroclor 1221	ND		ug/kg	539	--	1	A
Aroclor 1232	ND		ug/kg	539	--	1	A
Aroclor 1242	ND		ug/kg	270	--	1	A
Aroclor 1248	ND		ug/kg	539	--	1	A
Aroclor 1254	ND		ug/kg	539	--	1	B
Aroclor 1260	ND		ug/kg	539	--	1	A
Aroclor 1262	ND		ug/kg	539	--	1	A
Aroclor 1268	ND		ug/kg	270	--	1	A
PCBs, Total	ND		ug/kg	270	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-06
Client ID: C106
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 14:00
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 09:41
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	554	--	1	A
Aroclor 1221	ND		ug/kg	554	--	1	A
Aroclor 1232	ND		ug/kg	554	--	1	A
Aroclor 1242	ND		ug/kg	277	--	1	A
Aroclor 1248	ND		ug/kg	554	--	1	A
Aroclor 1254	ND		ug/kg	554	--	1	A
Aroclor 1260	ND		ug/kg	554	--	1	B
Aroclor 1262	ND		ug/kg	554	--	1	A
Aroclor 1268	ND		ug/kg	277	--	1	A
PCBs, Total	ND		ug/kg	277	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-07
Client ID: C107
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 14:15
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/16/18 16:05
Analyst: WR
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/15/18 15:36
Cleanup Method: EPA 3630
Cleanup Date: 11/16/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	590	--	1	A
Aroclor 1221	ND		ug/kg	590	--	1	A
Aroclor 1232	ND		ug/kg	590	--	1	A
Aroclor 1242	ND		ug/kg	295	--	1	A
Aroclor 1248	ND		ug/kg	590	--	1	A
Aroclor 1254	ND		ug/kg	590	--	1	A
Aroclor 1260	684		ug/kg	590	--	1	A
Aroclor 1262	ND		ug/kg	590	--	1	A
Aroclor 1268	ND		ug/kg	295	--	1	A
PCBs, Total	684		ug/kg	295	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-08
Client ID: C108
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 14:30
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 10:05
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	599	--	1	A
Aroclor 1221	ND		ug/kg	599	--	1	A
Aroclor 1232	ND		ug/kg	599	--	1	A
Aroclor 1242	ND		ug/kg	299	--	1	A
Aroclor 1248	ND		ug/kg	599	--	1	A
Aroclor 1254	ND		ug/kg	599	--	1	A
Aroclor 1260	ND		ug/kg	599	--	1	A
Aroclor 1262	ND		ug/kg	599	--	1	A
Aroclor 1268	337		ug/kg	299	--	1	B
PCBs, Total	337		ug/kg	299	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-09
Client ID: C109
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 14:45
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 10:18
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	617	--	1	A
Aroclor 1221	ND		ug/kg	617	--	1	A
Aroclor 1232	ND		ug/kg	617	--	1	A
Aroclor 1242	ND		ug/kg	309	--	1	A
Aroclor 1248	ND		ug/kg	617	--	1	A
Aroclor 1254	ND		ug/kg	617	--	1	A
Aroclor 1260	ND		ug/kg	617	--	1	A
Aroclor 1262	ND		ug/kg	617	--	1	A
Aroclor 1268	ND		ug/kg	309	--	1	A
PCBs, Total	ND		ug/kg	309	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-10
Client ID: C110
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 15:00
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 10:30
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	625	--	1	A
Aroclor 1221	ND		ug/kg	625	--	1	A
Aroclor 1232	ND		ug/kg	625	--	1	A
Aroclor 1242	ND		ug/kg	312	--	1	A
Aroclor 1248	ND		ug/kg	625	--	1	A
Aroclor 1254	ND		ug/kg	625	--	1	A
Aroclor 1260	ND		ug/kg	625	--	1	A
Aroclor 1262	ND		ug/kg	625	--	1	A
Aroclor 1268	ND		ug/kg	312	--	1	A
PCBs, Total	ND		ug/kg	312	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-11
Client ID: C111
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 15:15
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 10:42
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	647	--	1	A
Aroclor 1221	ND		ug/kg	647	--	1	A
Aroclor 1232	ND		ug/kg	647	--	1	A
Aroclor 1242	ND		ug/kg	324	--	1	A
Aroclor 1248	ND		ug/kg	647	--	1	A
Aroclor 1254	ND		ug/kg	647	--	1	A
Aroclor 1260	ND		ug/kg	647	--	1	A
Aroclor 1262	ND		ug/kg	647	--	1	A
Aroclor 1268	ND		ug/kg	324	--	1	A
PCBs, Total	ND		ug/kg	324	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-12
Client ID: C112
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 15:30
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 10:55
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	633	--	1	A
Aroclor 1221	ND		ug/kg	633	--	1	A
Aroclor 1232	ND		ug/kg	633	--	1	A
Aroclor 1242	ND		ug/kg	316	--	1	A
Aroclor 1248	ND		ug/kg	633	--	1	A
Aroclor 1254	ND		ug/kg	633	--	1	A
Aroclor 1260	ND		ug/kg	633	--	1	A
Aroclor 1262	ND		ug/kg	633	--	1	A
Aroclor 1268	ND		ug/kg	316	--	1	A
PCBs, Total	ND		ug/kg	316	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-13
Client ID: P101
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 15:45
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 01:09
Analyst: AWS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	160	--	1	A
Aroclor 1221	ND		ug/kg	160	--	1	A
Aroclor 1232	ND		ug/kg	160	--	1	A
Aroclor 1242	ND		ug/kg	160	--	1	A
Aroclor 1248	ND		ug/kg	160	--	1	A
Aroclor 1254	1360		ug/kg	160	--	1	A
Aroclor 1260	1330		ug/kg	160	--	1	A
Aroclor 1262	ND		ug/kg	160	--	1	A
Aroclor 1268	ND		ug/kg	160	--	1	A
PCBs, Total	2690		ug/kg	160	--	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	73		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-14 D
Client ID: P102
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 15:50
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 14:00
Analyst: AWS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	1600	--	10	A
Aroclor 1221	ND		ug/kg	1600	--	10	A
Aroclor 1232	ND		ug/kg	1600	--	10	A
Aroclor 1242	ND		ug/kg	1600	--	10	A
Aroclor 1248	ND		ug/kg	1600	--	10	A
Aroclor 1254	ND		ug/kg	1600	--	10	A
Aroclor 1260	14500		ug/kg	1600	--	10	B
Aroclor 1262	ND		ug/kg	1600	--	10	A
Aroclor 1268	ND		ug/kg	1600	--	10	A
PCBs, Total	14500		ug/kg	1600	--	10	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-15 D
Client ID: P103
Sample Location: WISCASSET, ME

Date Collected: 11/06/18 08:30
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 14:13
Analyst: AWS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	814	--	5	A
Aroclor 1221	ND		ug/kg	814	--	5	A
Aroclor 1232	ND		ug/kg	814	--	5	A
Aroclor 1242	ND		ug/kg	814	--	5	A
Aroclor 1248	ND		ug/kg	814	--	5	A
Aroclor 1254	ND		ug/kg	814	--	5	A
Aroclor 1260	9220		ug/kg	814	--	5	B
Aroclor 1262	ND		ug/kg	814	--	5	A
Aroclor 1268	2650		ug/kg	814	--	5	B
PCBs, Total	11900		ug/kg	814	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-16
Client ID: P104
Sample Location: WISCASSET, ME

Date Collected: 11/06/18 09:00
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 01:46
Analyst: AWS
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	156	--	1	A
Aroclor 1221	ND		ug/kg	156	--	1	A
Aroclor 1232	ND		ug/kg	156	--	1	A
Aroclor 1242	ND		ug/kg	156	--	1	A
Aroclor 1248	ND		ug/kg	156	--	1	A
Aroclor 1254	ND		ug/kg	156	--	1	A
Aroclor 1260	674		ug/kg	156	--	1	B
Aroclor 1262	ND		ug/kg	156	--	1	A
Aroclor 1268	ND		ug/kg	156	--	1	A
PCBs, Total	674		ug/kg	156	--	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-17 D
Client ID: P105
Sample Location: WISCASSET, ME

Date Collected: 11/06/18 09:10
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 14:24
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	776	--	5	A
Aroclor 1221	ND		ug/kg	776	--	5	A
Aroclor 1232	ND		ug/kg	776	--	5	A
Aroclor 1242	ND		ug/kg	776	--	5	A
Aroclor 1248	ND		ug/kg	776	--	5	A
Aroclor 1254	ND		ug/kg	776	--	5	A
Aroclor 1260	1540		ug/kg	776	--	5	B
Aroclor 1262	ND		ug/kg	776	--	5	A
Aroclor 1268	ND		ug/kg	776	--	5	A
PCBs, Total	1540		ug/kg	776	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	53		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-18 D
Client ID: P106
Sample Location: WISCASSET, ME

Date Collected: 11/06/18 09:30
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 14:37
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	760	--	5	A
Aroclor 1221	ND		ug/kg	760	--	5	A
Aroclor 1232	ND		ug/kg	760	--	5	A
Aroclor 1242	ND		ug/kg	760	--	5	A
Aroclor 1248	ND		ug/kg	760	--	5	A
Aroclor 1254	1520		ug/kg	760	--	5	B
Aroclor 1260	2620		ug/kg	760	--	5	A
Aroclor 1262	ND		ug/kg	760	--	5	A
Aroclor 1268	ND		ug/kg	760	--	5	A
PCBs, Total	4140		ug/kg	760	--	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	57		30-150	B
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-19 D
Client ID: P107
Sample Location: WISCASSET, ME

Date Collected: 11/06/18 09:40
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 14:50
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	7670	--	50	A
Aroclor 1221	ND		ug/kg	7670	--	50	A
Aroclor 1232	ND		ug/kg	7670	--	50	A
Aroclor 1242	ND		ug/kg	7670	--	50	A
Aroclor 1248	ND		ug/kg	7670	--	50	A
Aroclor 1254	38500		ug/kg	7670	--	50	A
Aroclor 1260	25000	IP	ug/kg	7670	--	50	B
Aroclor 1262	ND		ug/kg	7670	--	50	A
Aroclor 1268	ND		ug/kg	7670	--	50	A
PCBs, Total	63500		ug/kg	7670	--	50	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	73		30-150	A

Project Name: MASON STATION
Project Number: 171.06108
Lab Number: L1845804
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845804-20 D
Client ID: P108
Sample Location: WISCASSET, ME

Date Collected: 11/06/18 10:40
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 11/15/18 15:03
Analyst: JM
Percent Solids: Results reported on an 'AS RECEIVED' basis.

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	769	--	5	A
Aroclor 1221	ND		ug/kg	769	--	5	A
Aroclor 1232	ND		ug/kg	769	--	5	A
Aroclor 1242	ND		ug/kg	769	--	5	A
Aroclor 1248	ND		ug/kg	769	--	5	A
Aroclor 1254	ND		ug/kg	769	--	5	A
Aroclor 1260	2630		ug/kg	769	--	5	A
Aroclor 1262	ND		ug/kg	769	--	5	A
Aroclor 1268	ND		ug/kg	769	--	5	A
PCBs, Total	2630		ug/kg	769	--	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/15/18 07:49
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 01:00
Cleanup Method: EPA 3630
Cleanup Date: 11/15/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06,08-12 Batch: WG1179129-1						
Aroclor 1016	ND		ug/kg	514	--	A
Aroclor 1221	ND		ug/kg	514	--	A
Aroclor 1232	ND		ug/kg	514	--	A
Aroclor 1242	ND		ug/kg	257	--	A
Aroclor 1248	ND		ug/kg	514	--	A
Aroclor 1254	ND		ug/kg	514	--	A
Aroclor 1260	ND		ug/kg	514	--	A
Aroclor 1262	ND		ug/kg	514	--	A
Aroclor 1268	ND		ug/kg	257	--	A
PCBs, Total	ND		ug/kg	257	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/15/18 02:47
Analyst: JW

Extraction Method: EPA 3540C
Extraction Date: 11/14/18 02:13
Cleanup Method: EPA 3665A
Cleanup Date: 11/14/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/15/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13-20 Batch: WG1179157-1						
Aroclor 1016	ND		ug/kg	160	--	A
Aroclor 1221	ND		ug/kg	160	--	A
Aroclor 1232	ND		ug/kg	160	--	A
Aroclor 1242	ND		ug/kg	160	--	A
Aroclor 1248	ND		ug/kg	160	--	A
Aroclor 1254	ND		ug/kg	160	--	A
Aroclor 1260	ND		ug/kg	160	--	A
Aroclor 1262	ND		ug/kg	160	--	A
Aroclor 1268	ND		ug/kg	160	--	A
PCBs, Total	ND		ug/kg	160	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/16/18 15:28
Analyst: WR

Extraction Method: EPA 3540C
Extraction Date: 11/15/18 15:36
Cleanup Method: EPA 3630
Cleanup Date: 11/16/18
Cleanup Method: EPA 3665A
Cleanup Date: 11/16/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07 Batch: WG1179880-1						
Aroclor 1016	ND		ug/kg	631	--	A
Aroclor 1221	ND		ug/kg	631	--	A
Aroclor 1232	ND		ug/kg	631	--	A
Aroclor 1242	ND		ug/kg	315	--	A
Aroclor 1248	ND		ug/kg	631	--	A
Aroclor 1254	ND		ug/kg	631	--	A
Aroclor 1260	ND		ug/kg	631	--	A
Aroclor 1262	ND		ug/kg	631	--	A
Aroclor 1268	ND		ug/kg	315	--	A
PCBs, Total	ND		ug/kg	315	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	54		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06,08-12 Batch: WG1179129-2 WG1179129-3									
Aroclor 1016	76		56		40-140	30		50	A
Aroclor 1260	79		66		40-140	18		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		61		30-150	A
Decachlorobiphenyl	68		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		61		30-150	B
Decachlorobiphenyl	66		54		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MASON STATION

Project Number: 171.06108

Lab Number: L1845804

Report Date: 11/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13-20 Batch: WG1179157-2 WG1179157-3									
Aroclor 1016	76		85		40-140	11		50	A
Aroclor 1260	68		72		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		73		30-150	B
Decachlorobiphenyl	73		76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		67		30-150	A
Decachlorobiphenyl	62		65		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07 Batch: WG1179880-2 WG1179880-3									
Aroclor 1016	71		77		40-140	8		50	A
Aroclor 1260	74		80		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		75		30-150	A
Decachlorobiphenyl	64		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		73		30-150	B
Decachlorobiphenyl	53		55		30-150	B

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845804
Report Date: 11/16/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1845804-01A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-02A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-03A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-04A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-05A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-06A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-07A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-08A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-09A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-10A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-11A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-12A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		PCB-8082-CAULK(14)
L1845804-13A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-14A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-15A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-16A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-17A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-18A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-19A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)
L1845804-20A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		TS100(),PCB-8082-3540C(14)

*Values in parentheses indicate holding time in days

Project Name:	MASON STATION	**Lab Number:**	L1845804
Project Number:	171.06108	**Report Date:**	11/16/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Report Format: Data Usability Report

Project Name:	MASON STATION	**Lab Number:**	L1845804
Project Number:	171.06108	**Report Date:**	11/16/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

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

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

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

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

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

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

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

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

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

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

Report Format: Data Usability Report

Project Name:	MASON STATION	**Lab Number:**	L1845804
Project Number:	171.06108	**Report Date:**	11/16/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

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

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

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

Serial_No:11161818:36

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Rec'd in Lab: 11/8/18

ALPHA Job #: L1845804

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

B3

Project Information

Project Name: Mason Station
Project Location: Wiscasset ME
Project #: 171.06108
Project Manager: Steve Dyer
ALPHA Quote #:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11374

Client Information

Client: Ransom Consulting Inc.
Address: 400 Commercial St.
Portland ME 04101
Phone: 207.772.2891
Email: ephenix@ransomenv.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☒ No NPDES RGP
☐ Other State /Fed Program Maine DEP Criteria Residential

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
Sample Matrix X1 = Bulk Product

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	PCB	Sample Comments	TOTAL # BOTTLES
45804-01	C101	11/5/18	13:00	X1	CMV	X		1
02	C102	11/5/18	13:15	X1	CMV	X		1
03	C103	11/5/18	13:30	X1	CMV	X		1
04	C104	11/5/18	13:40	X1	CMV	X		1
05	C105	11/5/18	13:45	X1	CMV	X		1
06	C106	11/5/18	14:00	X1	CMV	X		1
07	C107	11/5/18	14:15	X1	CMV	X		1
08	C108	11/5/18	14:30	X1	CMV	X		1
09	C109	11/5/18	14:45	X1	CMV	X		1
10	C110	11/5/18	15:00	X1	CMV	X		1
					Container Type	A		
					Preservative	A		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Eric [illegible]	11/8/18 1330	Rob Mart AAC	11-8-18 1330
Rob Mart	11-8-18 1930	[illegible]	11-8-18 1930

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 11/8/18

ALPHA Job #: L1845804

ALPHA ANALYTICAL
8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

Client Information

Client: Ransom Consulting Inc.
Address: 400 Commercial St. Portland ME 04101
Phone: 207.772.2891
Email: ephenix@ransomenv.com

Project Information

Project Name: Mason Station
Project Location: Wiscasset ME
Project #: 171.06108
Project Manager: Steve Dyer
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: 11374

Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☒ No NPDES RGP
☐ Other State /Fed Program Maine DEP Criteria Residential

Additional Project Information:
Sample Matrix X1 = Bulk Product

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	ANALYSIS: PCB	SAMPLE INFO: Filtration / Preservation	TOTAL # BOTTLES
45804-11	C111	11/5/18	15:15	X1	CMV	X		1
12	C112	11/5/18	15:30	X1	CMV	X		1
13	P101	11/5/18	15:45	X1	CMV	X		1
14	P102	11/5/18	15:50	X1	CMV	X		1
15	P103	11/6/18	08:30	X1	CMV	X		1
16	P104	11/6/18	09:00	X1	CMV	X		1
17	P105	11/6/18	09:10	X1	CMV	X		1
18	P106	11/6/18	09:30	X1	CMV	X		1
19	P107	11/6/18	09:40	X1	CMV	X		1
20	P108	11/6/18	10:40	X1	CMV	X		1
						Container Type: A		
						Preservative: A		

ANALYSIS: VOC: ☐ 8260 ☐ 624 ☐ 524.2; SVOC: ☐ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8; EPH: ☐ Ranges & Targets ☐ PP13 ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☒ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO: Filtration ☐ Field ☐ Lab to do; Preservation ☐ Lab to do

Sample Comments

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
Emily Plym	11/8/18 1330	Rob Mac	11-8-18 1330
Rob Macek	11-8-18 1930		11-8-18 1930

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)