



400 Commercial Street, Suite 404
Portland, ME 04101
207.772.2891

April 7, 2021

Project 171.06108.008

Mr. Dan Pennessi
Mason Station, LLC
485 West Putnam Avenue
Greenwich, Connecticut 06830

RE: Revised Work Plan
Performance-Based Disposal of Polychlorinated Biphenyl Remediation Waste
Exterior Transformer Enclosures
Mason Station Powerhouse
Wiscasset, Maine

Dear Mr. Pennessi:

On behalf of Mason Station LLC, Ransom Consulting, LLC (Ransom) has prepared the following revised Work Plan to complete the Performance-Based Disposal of polychlorinated biphenyl (PCB) Remediation Waste associated with the Mason Station Powerhouse building, located on Birch Point Road in Wiscasset, Maine (the "Site"). This work plan is intended to present the general procedures to be followed during the cleanup of PCB-impacted soil and concrete (confirmed to meet the definition of PCB Remediation Waste) located within, and in the vicinity of, the two exterior electrical transformer enclosures associated with the Mason Station Powerhouse Building. The work plan was prepared in accordance with the performance-based disposal requirements outlined in 40 CFR §761.61(b).

This Work Plan was revised in response to comments provided to Ransom by Ms. Kimberly Tisa of the United States Environmental Protection Agency (U.S. EPA) in a March 17, 2020 email.

A Site Location Map and a Site Plan are provided as Figures 1 and 2, respectively.

BACKGROUND

In November 2018, Ransom conducted shallow soil sampling in the two exterior transformer enclosures north and southwest of the Mason Station Powerhouse Building as part of a Phase II Environmental Site Assessment (ESA) for the Site. Four surficial soil samples were collected from each of the two transformer enclosures: samples SS301 through SS304 (southwest transformer cage) and samples SS305 through SS308 (north transformer cage). The sampling locations are provided on Figure 2.

As shown in Table 1, PCBs were detected in all eight of the samples at total concentrations ranging from 8.76 to 84.4 milligrams per kilogram (mg/kg). The primary detected Aroclor was Aroclor 1260. A copy of the laboratory chemical analysis data report is provided as Attachment A.

As indicated in Table 1, the total PCB concentrations exceeded their corresponding Maine Department of Environmental Protection (MEDEP) Remedial Action Guidelines (RAGs) for the Commercial Worker and Residential exposure scenario (13 and 3.1 mg/kg, respectively).

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PCB contamination associated with the exterior electrical transformer enclosures is anticipated to be the result of incidental spills or releases of PCB-containing transformer fluids to the ground surface and runoff from the electrical transformer pads during historic power plant operations. No obvious staining or discharges are known to have occurred. However, surficial spills or small releases have impacted surficial soil conditions near the former transformer pads and may have impacted porous concrete surfaces within the transformer enclosures as evidenced from historic sampling at the Site.

In June 2019, personnel from the U.S. EPA conducted a site visit to observe the on-site transformers and to review compliance with Section 6(e) of the TSCA regulations addressing PCB Remediation Waste (40 CFR §761.3). The U.S. EPA identified several non-compliance issues on-site which were summarized in a letter dated June 19, 2019 and requested that Mason Station, LLC provide a plan for proper disposal of PCB items, characterization of the nature and extent of contamination, and cleanup of PCB releases.

Between September and December 2020, known electrical transformers were removed from the Site and transported off-site for disposal. A report documenting the transformer removal and disposal was submitted to the U.S. EPA and the MEDEP on February 5, 2021. PCB-contaminated soil and potentially contaminated concrete remain in place in the areas of the exterior transformer enclosures and will require management as PCB Remediation Waste.

PROPOSED PERFORMANCE BASED DISPOSAL PLAN

Objective

As required by 40 CFR §761.61(b), the objective of the proposed remediation is to remove PCB-contaminated soil and concrete from within the exterior transformer enclosures such that PCB concentrations in remaining soil and concrete are less than 1 mg/kg.

Pre-Excavation Soil Sampling

Prior to initiating excavation of PCB-contaminated soils or removal of PCB-contaminated concrete, Ransom will characterize shallow soils around the exterior of fenced perimeters of both transformer enclosures. The sampling will be performed to confirm that PCB-contaminated soils are limited to the interiors of each transformer enclosure. Proposed sampling locations are provided on Figures 3 (southwest transformer cage) and 4 (north transformer cage). As shown on the figures, Ransom will collect 10 surface soil samples surrounding the southwest transformer cage (SS401 through SS110), and five surface soil samples surrounding the north transformer cage (SS411 through SS415). Surficial soil samples will be collected from the top 3 inches of soil at each location using hand tools. The samples will be placed into laboratory-prepared glassware and submitted to Alpha Analytical, Inc. (Alpha) of Westborough, Massachusetts for PCB analysis by U.S. EPA Method 8082A; the samples will be prepared using the Soxhlet extraction method (U.S. EPA Method 3540C). As a quality control measure, one blind duplicate soil sample will be collected for every 20 samples submitted for laboratory analysis (5%).

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Pre-Excavation Concrete Sampling

Ransom will collect concrete samples from the various concrete pads located in each transformer enclosure. Proposed sampling locations are also provided on Figures 3 and 4. The bulk samples will be collected in accordance with the U.S. EPA, Region 1, *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) dated May 2011*. At each location, Ransom will collect samples from the following depth intervals:

1. 0 to ½ inch; and
2. ½ to 1 inch

The samples will be collected using a hammer drill with a 1.5-inch bit. Disposable stainless-steel spoons will be used to collect the concrete dust, and the drill bit will be decontaminated between sampling locations. The samples will be submitted to Alpha for PCB analysis by U.S. EPA Method 8082. The samples will be prepared for analysis using the standard Soxhlet extraction procedure (U.S. EPA Method 3540C). As a quality control measure, one blind duplicate soil sample will be collected for each 20 samples (5 percent).

Remedial Plan

Soil

Based on the Phase II ESA soil sample analytical results from November 2018 and in lieu of performing additional site characterization sampling, Mason Station will excavate the top 1-foot of soil from within each of the electrical transformer enclosures. The proposed excavation limits are provided on Figures 3 and 4.

The soils will be live-loaded during excavation. The excavated soil will be managed as PCB Remediation Waste and will be shipped using Hazardous Waste Manifests to a chemical waste landfill licensed to accept PCB Remediation Waste in accordance with 40 CFR §761.61(b)(2). More specifically, soil removal will be completed by Environmental Projects, Inc. (EPI) of Auburn, Maine and will be transported for disposal by Goulet Transportation of Deerfield, Massachusetts. The soil will be transported to Chemical Waste Management (CWM) in Emelle, Alabama for disposal.

Standard silt fencing will be erected around the perimeter of the excavation area to prevent migration of PCB-containing soils from the excavation. In the northern transformer area, where much of the area surrounding the former transformer consists of asphalt pavement, hay bales will be used to prevent run-off and migration of contaminated soil.

Due to the relatively shallow nature of the proposed excavations, Ransom does not anticipate encountering or managing groundwater in the excavations. Although the southwest transformer cage is in the immediate vicinity of the natural spring that discharges inside of the Power House building, the spring discharge is at an elevation approximately 12 to 15 feet below the grade of the southwest transformer cage. The natural spring is not expected to be encountered or re-

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Mason Station, LLC

engineered during the PCB remediation activities. Soils in the area of the exterior transformer cages consist of sand and gravel fill in which water is expected to readily infiltrate. With the exception of managing water generated during decontamination activities (discussed below), Ransom does not anticipate groundwater or stormwater management efforts will be necessary during the proposed PCB soil remediation.

It is recognized that numerous underground utilities are located throughout the areas of the exterior transformer cages. Previous efforts to identify individual utility conduits within the exterior transformer cages using a privately-contracted utility locator were not successful. All of the utilities in the areas of the exterior transformer cages are expected to be “dead” and no longer serviceable. It is anticipated that utilities may be encountered and removed as part of the PCB soil removal efforts.

Concrete

Pending receipt of analytical results for the concrete samples collected from the various concrete pads in the enclosures, Ransom will prepare an Addendum to this Work Plan. At present, Mason Station contemplates the following possible remedial actions to address PCB-contaminated concrete:

1. If PCB concentrations greater than 1 mg/kg are limited to the top ½ inch of concrete, the top ½ inch of concrete will be scarified and the removed concrete managed as PCB Remediation Waste.
2. If PCBs concentrations greater than 1 mg/kg extend beyond the top ½ inch of concrete, Mason Station will consider the following options:
 - a. Removal of the entire concrete pad for off-site disposal as PCB-Remediation Waste. This option may not be feasible since Ransom suspects that the concrete pads are quite deep, based on their former use; and/or
 - b. Encapsulation or installation of diamond plate on top of the affected concrete surface consistent with the continued use rule (40 CFR §761.30(p)) until such time as this portion of the Site is redeveloped.

As with the soil removal, the removal of PCB-contaminated concrete will be completed by EPI and will be transported for disposal by Goulet Transportation . The concrete will be transported to CWM in Emelle, Alabama for disposal.

Dust Suppression

Throughout the cleanup, dust suppression will be utilized to reduce exposure to PCB-contaminated media by on-site workers. The following measures will minimize the exposure to airborne dust during the cleanup:

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Mason Station, LLC

1. Access to the property is limited by a locked chain-link fence and access to the property will be limited to a gated entrance;
2. During work hours, exposed soil will be wetted regularly, or wetting agents will be applied, to prevent the generation of visible dust);
3. Soil piles generated during the cleanup will be covered daily with 10 mil polyethylene sheeting which will be secured in-place with concrete blocks or other like materials;
4. Truck and heavy equipment that enter the Site and drive on unpaved area will be subject to wheel cleaning prior to leaving the Site using wet methods; and
5. All soils, when transport on public roadways, will be covered to minimize fugitive dust and where necessary, truck tire and undercarriage washing will be employed to minimize dust generation and off-site tracking of soils.

To confirm that dust controls are effective, real-time dust monitoring will be performed during the cleanup using a hand-held logging laser-photometer-based aerosol monitor (i.e., TSI Dust Trak DRX Aerosol Monitor Model 8533 or equivalent).

PM10, an indicator of dust in the air that targets particulate matter with an aerodynamic diameter of less than or equal to 10 micrometers, will be measured in the field. The U.S. EPA indicates that to estimate inhalation exposure, only the inhalable fraction of suspended particulates (less than 10 microns in diameter) must be considered. The U.S. EPA's ambient air limit for PM10 is 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) averaged over 24 hours; for this project, the action level is 100 $\mu\text{g}/\text{m}^3$ averaged over an 8-hour work shift. If the action level is exceeded, increased efforts to suppress dust emissions, including but not limited to engineering controls or increased use of watering will be made.

Decontamination

Equipment

Decontamination will be conducted to minimize employee and worker contact with PCBs or with equipment that has contacted PCBs, as well as to minimize off-site transport of contamination. Vehicles and equipment used will be decontaminated prior to leaving the Site. An equipment decontamination station will be constructed for decontaminating vehicles and equipment leaving the Site. The decontamination station will be a portable system constructed to capture decontamination water, including overspray, and will allow for collection and removal of the decontamination water. Vehicles, equipment, and materials will be cleaned and decontaminated prior to leaving the Site. Construction material will be handled in such a way as to minimize the potential for PCBs being spread and/or carried off site. Prior to exiting the Site, vehicles and equipment will be monitored to ensure the adequacy of decontamination.

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Mason Station, LLC

Following excavation and scarification activities, the equipment (i.e., backhoe/excavator bucket, dump trucks, etc.) will be cleaned and decontaminated in accordance with §761.79(c)(2)(i). A copy of the decontamination method to be employed is provided at Attachment B.

Worker

A decontamination enclosure for worker use will be provided. This area will allow workers to remove work clothing prior to leaving the Site to minimize the potential for contaminants being spread and/or carried off site.

Confirmatory Sampling

Soil

Following the soil removal activities, Ransom will collect confirmatory samples from the soil that is left in place within the excavated area. Confirmatory soil samples will be collected from a depth interval of 0 to 3-inches below the remaining grade after soil removal. Ransom anticipates collecting 12 confirmatory soil samples (CS501 through CS512) from within the southwest transformer enclosure and 4 confirmatory soil samples (CS513 through CS516) from the soils left in place within the northern enclosure. Duplicate samples will be collected at a rate of 5% for quality assurance purposes. Proposed confirmatory soil sampling locations are provided on Figures 5 and 6.

The soil samples will be submitted to Alpha for PCBs analysis. The analyses will be expedited and analytical results will be available within 48 hours following laboratory receipt in order to obtain results and make decisions before the excavation contractor demobilizes from the Site. In the event that laboratory analysis indicates PCBs remain in certain areas at concentrations in excess of 1 mg/kg, additional soil excavation and confirmatory soil sampling will be performed in those areas until results indicate PCB concentrations less than 1 mg/kg using the same methods as described above.

Concrete

Depending on the findings of the pre-excavation concrete sampling described earlier and the degree to which PCB-contaminated concrete is remediated (scarification of the top ½ inch of concrete or full concrete pad removal) or managed in-place, post-remediation sampling of concrete will be limited to those concrete pads at which scarification was completed. At these pads, a sample of the remaining top ½ inch of concrete will be collected from up to 4 locations for confirmatory PCB analysis. Duplicate samples of remaining concrete will be collected at a rate of 5% for quality assurance purposes. Consistent with the prior concrete sample analyses, the samples will be submitted to Alpha for PCB analysis by U.S. EPA Method 8082. The samples will be prepared for analysis using the standard Soxhlet extraction procedure (U.S. EPA Method 3540C).

Data Usability/Validation

To assess the usability/validity of the post-cleanup soil sampling data, a limited data validation assessment using the document *Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses* as a general guideline will be completed. The data validation will be conducted so that the analytical data generated during the cleanup is of defensible analytical quality. The Data Quality Objective (DQO) of the work conducted under this Plan is to obtain analytical data sufficient to ensure that the cleanup was effective.

For each set of laboratory data generated during the cleanup, the equivalent of the components of a Tier I and Tier II Data Validation (DV) will be conducted. In general, these DVs will consist of the following:

1. *Tier I:* Completeness and documentation review. Information provided by the laboratory for sample integrity (e.g., sample temperature, preservation, holding time, etc.) will be reviewed to ensure that the proper chain-of-custody procedures were followed, and check the laboratory report for necessary components; and
2. *Tier II:* Sample results and QC review. This will include a review of Data Quality Indicators (DQIs) for accuracy, precision, and sensitivity. Specifically, the quality assurance/quality control (QA/QC) measures used by the laboratory to be reviewed will include surrogate recoveries, method blank results, laboratory control sample (LCS) results, and matrix spike (MS)/matrix spike duplicate (MSD) results.

The results of the DV will be attached to the laboratory chemical analysis data reports.

REPORTING

After the completion of the cleanup and post-cleanup sampling, a report will be prepared summarizing the cleanup activities. This document will include the following elements:

1. A summary of site conditions prior to the cleanup (consistent with the content of this Plan);
2. A summary of the cleanup procedures employed at the Site, along with photo-documentation of site conditions before, during and after the cleanup;
3. A summary of the procedures used to collect post-cleanup samples including tables and drawings summarizing PCB concentrations in the soil and concrete (if applicable) samples;
4. Copies of waste disposal documents; and
5. Copies of laboratory chemical analysis data reports.

Mr. Dan Pennesi
Mason Station, LLC

PROPOSED IMPLEMENTATION SCHEDULE

A proposed implementation schedule for the Plan is as follows:

Activity	Completion Date
Submittal of Plan to U.S. EPA	April 2021
U.S. EPA Approval (expected)	May 2021
Cleanup Completed	July/August 2021
Summary Report to U.S. EPA	November 2021

If you have any questions regarding this Work Plan, please feel free to call us at your convenience.

Sincerely,

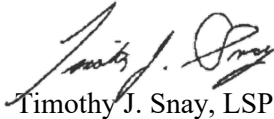
RANSOM CONSULTING, LLC



Eriksen P. Phenix, L.G.
Project Geologist



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

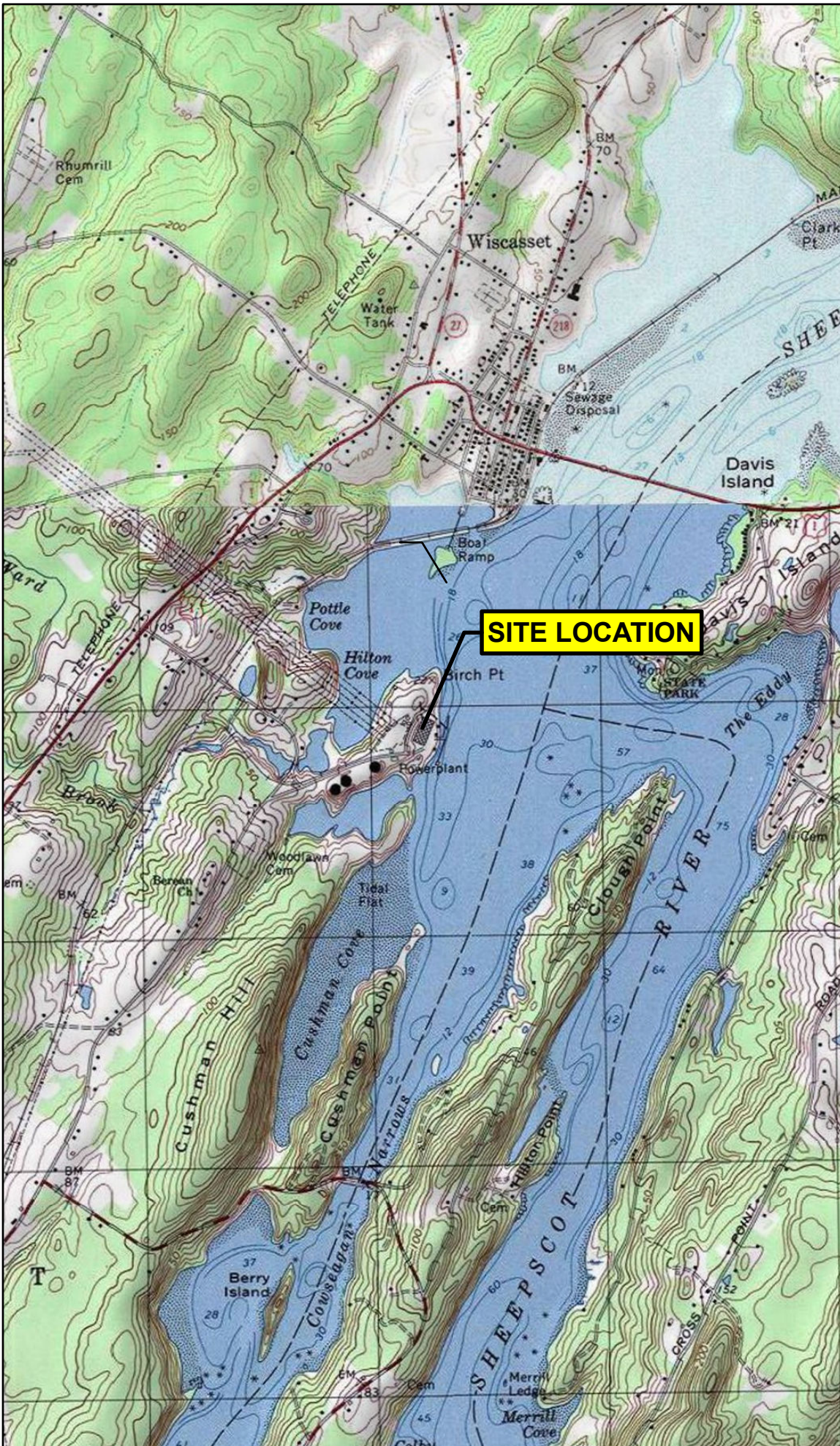


Timothy J. Snay, LSP
Vice President/Senior Project Manager

EPP/SJD/TJS:mes



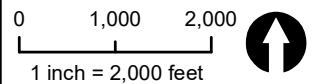
Wiscasset



Notes

1. Data Source: USGS National Map Seamless Server, 24K DRG, 1/3" NED
2. USGS Quad Name(s): Wiscasset and Westport, Maine
3. Latitude: 43° 40' 17"N
 Longitude: 69° 40' 17"W
 UTM Northing: 4871095 mN
 UTM Easting: 446153 mE

Scale and Orientation



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 Location

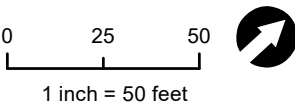
Legend & Notes

⊕ Surficial Soil Sample Location

Notes

1. Some features are approximate in location and scale
2. This plan has been prepared for Mason Station, LLC. All other uses are not authorized unless written permission is obtained from Ransom Consulting, LLC.

Scale & Orientation



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Figure 2
Exterior Sample Location Plan



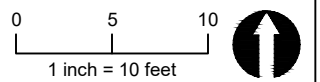
Legend & Notes

- x— Fence Line and Proposed Excavation Limits
- T Pad Transformer Removed 9/28/2020
- ⊕ Proposed Concrete Sample Location
- ⊕ Proposed Surficial Soil Sample Location

Notes:

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Scale and Orientation



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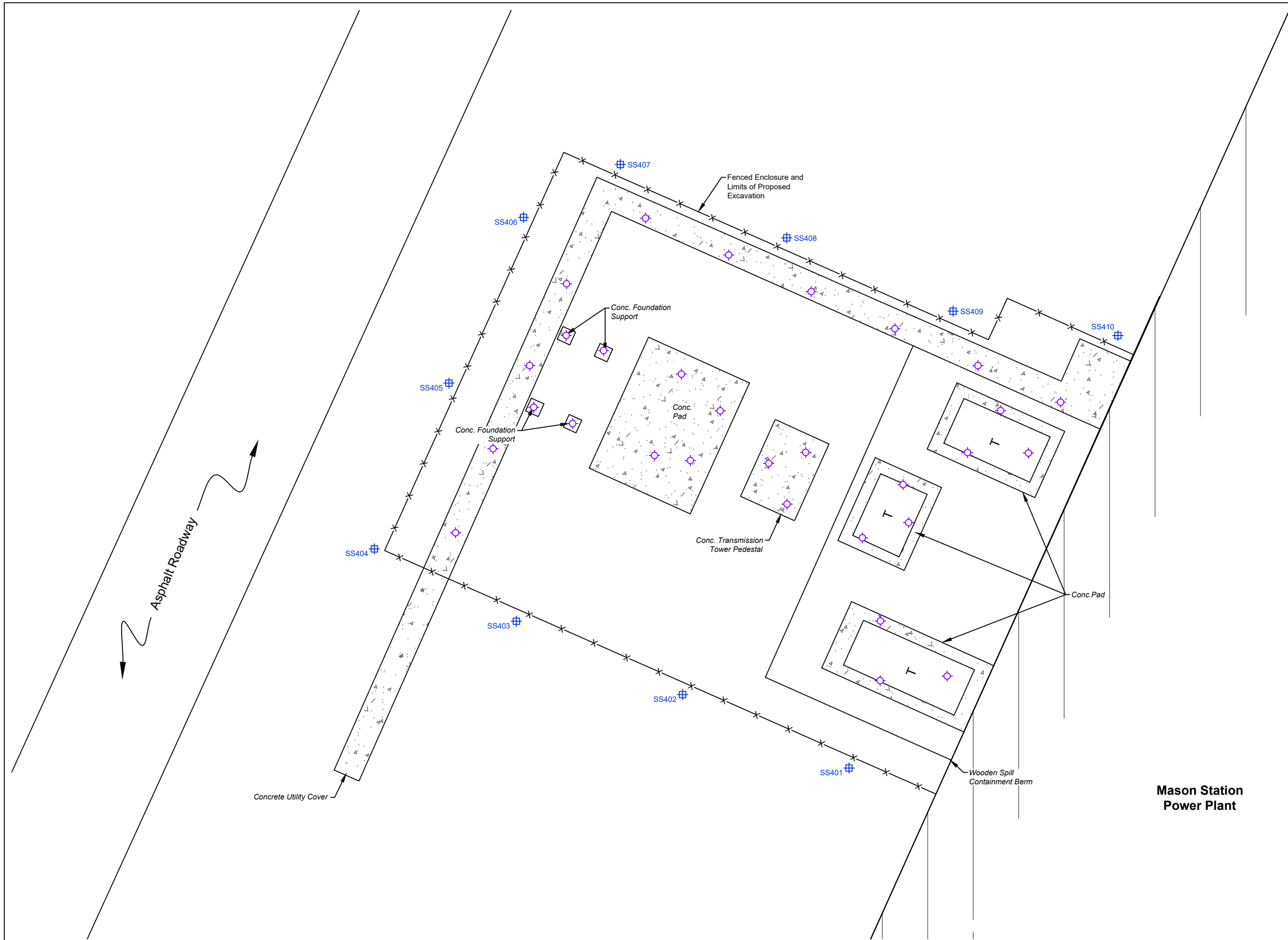
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Figure 3
Sampling Plan -
Southwestern Transformer
Enclosure



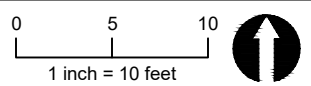
Legend & Notes

- x— Fence Line and Proposed Excavation Limits
- T Pad Transformer Removed 9/28/2020
- ⊕ Proposed Concrete Sample Location
- ⊕ Proposed Surficial Soil Sample Location

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Scale and Orientation



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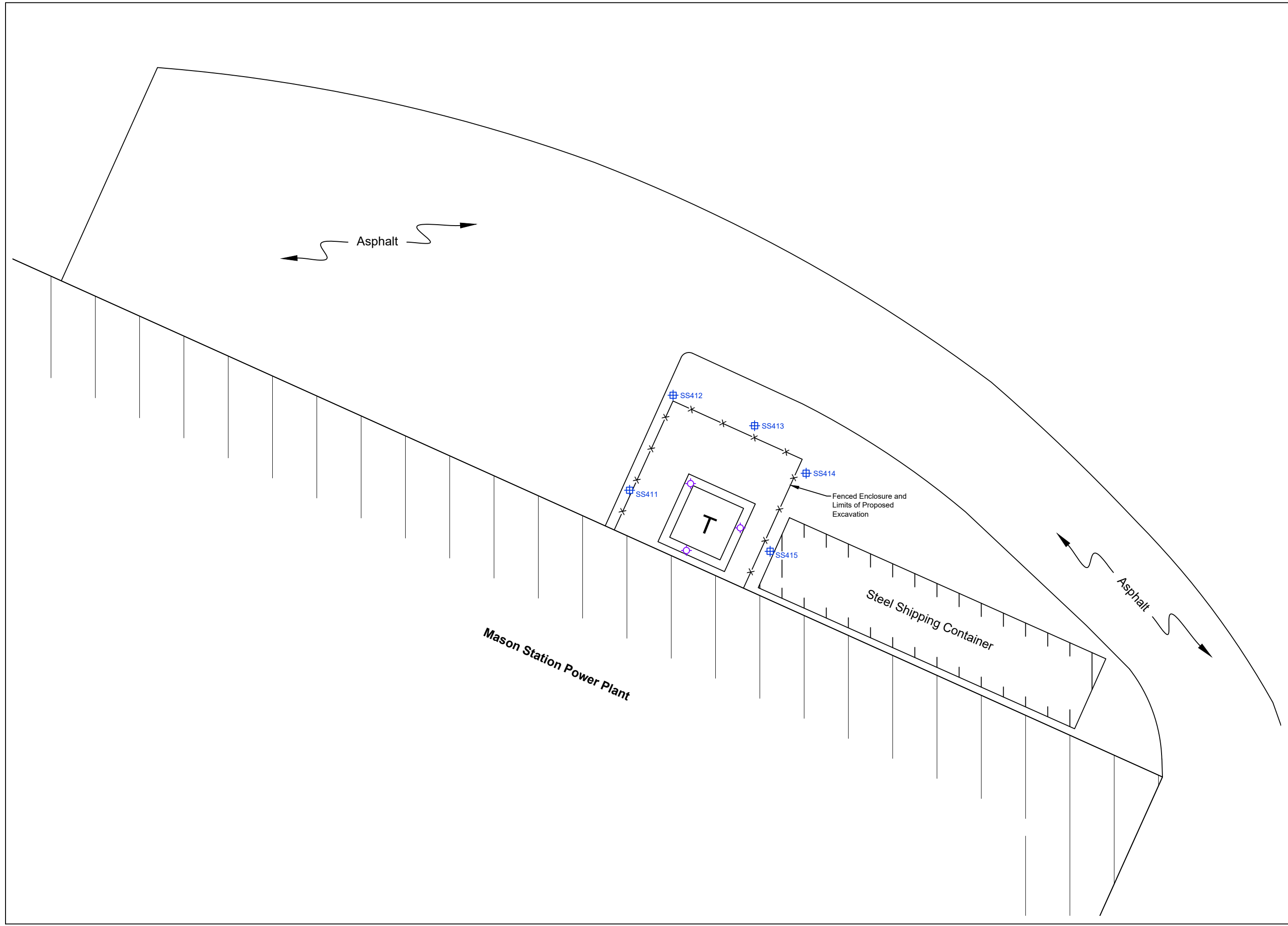
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Figure 4
Sampling Plan -
Northern Transformer
Enclosure



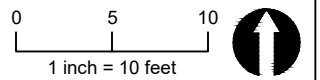
Legend & Notes

- X— Fence Line and Proposed Excavation Limits
- Pad Transformer Removed 9/28/2020
- Proposed Confirmatory Soil Sample Location

Notes:

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Scale and Orientation



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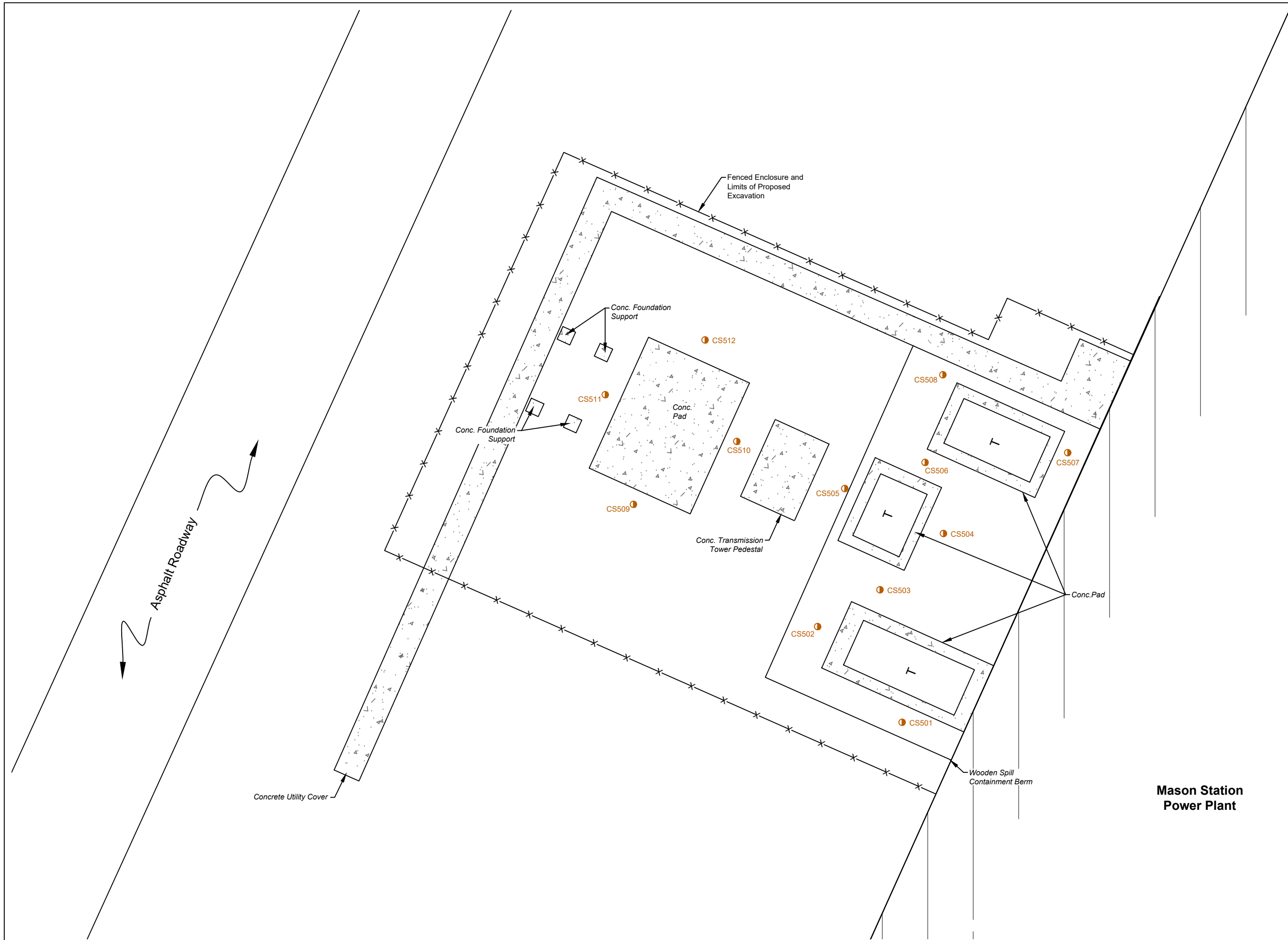
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Greenwich, Connecticut

Site Address

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Wiscasset, Maine

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Figure 5
Confirmatory Sampling
Plan -Southwestern
Transformer Enclosure



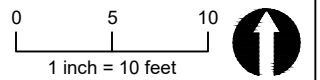
Legend & Notes

- x— Fence Line and Proposed Excavation Limits
- T Pad Transformer Removed 9/28/2020
- Proposed Confirmatory Soil Sample Location

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Scale and Orientation



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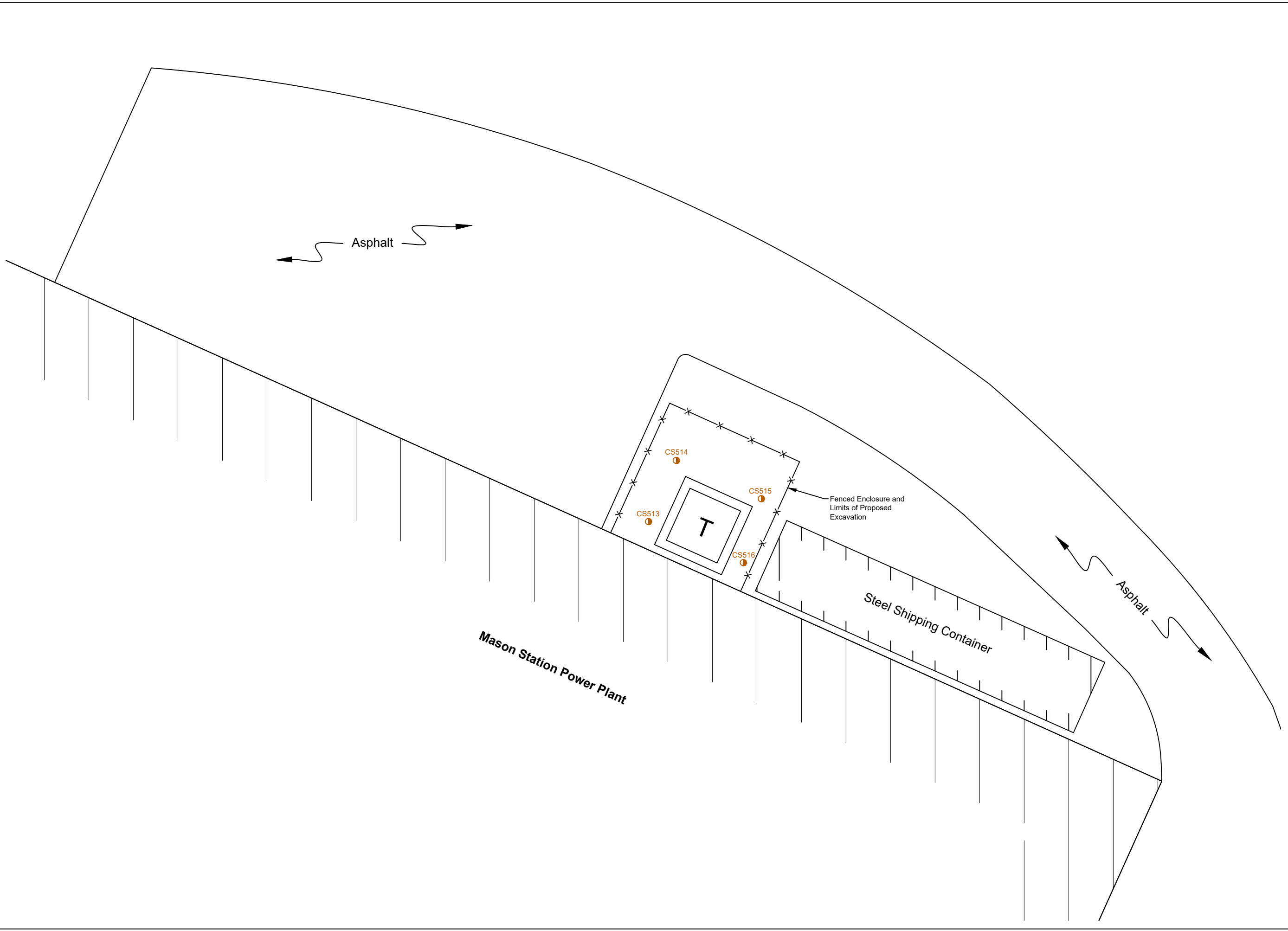
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Wiscasset, Maine

171.06108.005 | April 2021

Figure 6
Confirmatory Sampling
Plan -Northern
Transformer Enclosure



ATTACHMENT A

Previous Laboratory Analytical Report

Revised Work Plan
Performance-Based Disposal of Polychlorinated Biphenyl Remediation Waste
Exterior Transformer Enclosures
Mason Station Powerhouse
Wiscasset, Maine



ANALYTICAL REPORT

Lab Number:	L1845807
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

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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: L1845807
Report Date: 11/16/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1845807-01	SS301	SOIL	WISCASSET, ME	11/05/18 11:25	11/08/18
L1845807-02	SS302	SOIL	WISCASSET, ME	11/05/18 11:30	11/08/18
L1845807-03	SS303	SOIL	WISCASSET, ME	11/05/18 11:35	11/08/18
L1845807-04	SS304	SOIL	WISCASSET, ME	11/05/18 11:40	11/08/18
L1845807-05	SS305	SOIL	WISCASSET, ME	11/05/18 12:45	11/08/18
L1845807-06	SS306	SOIL	WISCASSET, ME	11/05/18 12:50	11/08/18
L1845807-07	SS307	SOIL	WISCASSET, ME	11/05/18 12:55	11/08/18
L1845807-08	SS308	SOIL	WISCASSET, ME	11/05/18 13:00	11/08/18
L1845807-09	EQUIPMENT BLANK	WATER	WISCASSET, ME	11/05/18 12:30	11/08/18

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
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
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

Case Narrative (continued)

PCBs

L1845807-01 through -08: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 11/16/18

ORGANICS

PCBS

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-01 D
 Client ID: SS301
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 11:25
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 12:28
 Analyst: KB
 Percent Solids: 86%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	1870	--	50	A
Aroclor 1221	ND		ug/kg	1870	--	50	A
Aroclor 1232	ND		ug/kg	1870	--	50	A
Aroclor 1242	ND		ug/kg	1870	--	50	A
Aroclor 1248	ND		ug/kg	1870	--	50	A
Aroclor 1254	ND		ug/kg	1870	--	50	A
Aroclor 1260	32400		ug/kg	1870	--	50	B
Aroclor 1262	ND		ug/kg	1870	--	50	A
Aroclor 1268	ND		ug/kg	1870	--	50	A
PCBs, Total	32400		ug/kg	1870	--	50	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-02 D
 Client ID: SS302
 Sample Location: WISCASSET, ME

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

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 12:41
 Analyst: KB
 Percent Solids: 81%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	3930	--	100	A
Aroclor 1221	ND		ug/kg	3930	--	100	A
Aroclor 1232	ND		ug/kg	3930	--	100	A
Aroclor 1242	ND		ug/kg	3930	--	100	A
Aroclor 1248	ND		ug/kg	3930	--	100	A
Aroclor 1254	16400		ug/kg	3930	--	100	B
Aroclor 1260	ND		ug/kg	3930	--	100	A
Aroclor 1262	ND		ug/kg	3930	--	100	A
Aroclor 1268	ND		ug/kg	3930	--	100	A
PCBs, Total	16400		ug/kg	3930	--	100	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-03 D
 Client ID: SS303
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 11:35
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 15:49
 Analyst: AWS
 Percent Solids: 72%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	9110	--	200	A
Aroclor 1221	ND		ug/kg	9110	--	200	A
Aroclor 1232	ND		ug/kg	9110	--	200	A
Aroclor 1242	ND		ug/kg	9110	--	200	A
Aroclor 1248	ND		ug/kg	9110	--	200	A
Aroclor 1254	ND		ug/kg	9110	--	200	A
Aroclor 1260	84400		ug/kg	9110	--	200	B
Aroclor 1262	ND		ug/kg	9110	--	200	A
Aroclor 1268	ND		ug/kg	9110	--	200	A
PCBs, Total	84400		ug/kg	9110	--	200	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-04 D
 Client ID: SS304
 Sample Location: WISCASSET, ME

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

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 16:02
 Analyst: AWS
 Percent Solids: 91%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	3580	--	100	A
Aroclor 1221	ND		ug/kg	3580	--	100	A
Aroclor 1232	ND		ug/kg	3580	--	100	A
Aroclor 1242	ND		ug/kg	3580	--	100	A
Aroclor 1248	ND		ug/kg	3580	--	100	A
Aroclor 1254	ND		ug/kg	3580	--	100	A
Aroclor 1260	ND		ug/kg	3580	--	100	A
Aroclor 1262	ND		ug/kg	3580	--	100	A
Aroclor 1268	18100		ug/kg	3580	--	100	B
PCBs, Total	18100		ug/kg	3580	--	100	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-05 D
 Client ID: SS305
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:45
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 13:23
 Analyst: KB
 Percent Solids: 73%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	899	--	20	A
Aroclor 1221	ND		ug/kg	899	--	20	A
Aroclor 1232	ND		ug/kg	899	--	20	A
Aroclor 1242	ND		ug/kg	899	--	20	A
Aroclor 1248	ND		ug/kg	899	--	20	A
Aroclor 1254	ND		ug/kg	899	--	20	A
Aroclor 1260	8760		ug/kg	899	--	20	B
Aroclor 1262	ND		ug/kg	899	--	20	A
Aroclor 1268	ND		ug/kg	899	--	20	A
PCBs, Total	8760		ug/kg	899	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-06 D
 Client ID: SS306
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:50
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 13:36
 Analyst: KB
 Percent Solids: 67%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	975	--	20	A
Aroclor 1221	ND		ug/kg	975	--	20	A
Aroclor 1232	ND		ug/kg	975	--	20	A
Aroclor 1242	ND		ug/kg	975	--	20	A
Aroclor 1248	ND		ug/kg	975	--	20	A
Aroclor 1254	ND		ug/kg	975	--	20	A
Aroclor 1260	9140		ug/kg	975	--	20	B
Aroclor 1262	ND		ug/kg	975	--	20	A
Aroclor 1268	ND		ug/kg	975	--	20	A
PCBs, Total	9140		ug/kg	975	--	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-07 D
 Client ID: SS307
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:55
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 13:49
 Analyst: KB
 Percent Solids: 60%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	2640	--	50	A
Aroclor 1221	ND		ug/kg	2640	--	50	A
Aroclor 1232	ND		ug/kg	2640	--	50	A
Aroclor 1242	ND		ug/kg	2640	--	50	A
Aroclor 1248	ND		ug/kg	2640	--	50	A
Aroclor 1254	ND		ug/kg	2640	--	50	A
Aroclor 1260	20600		ug/kg	2640	--	50	B
Aroclor 1262	ND		ug/kg	2640	--	50	A
Aroclor 1268	ND		ug/kg	2640	--	50	A
PCBs, Total	20600		ug/kg	2640	--	50	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-08 D
 Client ID: SS308
 Sample Location: WISCASSET, ME

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

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 11/16/18 14:02
 Analyst: KB
 Percent Solids: 71%

Extraction Method: EPA 3540C
 Extraction Date: 11/10/18 14:55
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	2300	--	50	A
Aroclor 1221	ND		ug/kg	2300	--	50	A
Aroclor 1232	ND		ug/kg	2300	--	50	A
Aroclor 1242	ND		ug/kg	2300	--	50	A
Aroclor 1248	ND		ug/kg	2300	--	50	A
Aroclor 1254	ND		ug/kg	2300	--	50	A
Aroclor 1260	25600		ug/kg	2300	--	50	B
Aroclor 1262	ND		ug/kg	2300	--	50	A
Aroclor 1268	ND		ug/kg	2300	--	50	A
PCBs, Total	25600		ug/kg	2300	--	50	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-09
 Client ID: EQUIPMENT BLANK
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:30
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 11/14/18 18:53
 Analyst: JW

Extraction Method: EPA 3510C
 Extraction Date: 11/10/18 13:42
 Cleanup Method: EPA 3665A
 Cleanup Date: 11/11/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.250	--	1	A
Aroclor 1221	ND		ug/l	0.250	--	1	A
Aroclor 1232	ND		ug/l	0.250	--	1	A
Aroclor 1242	ND		ug/l	0.250	--	1	A
Aroclor 1248	ND		ug/l	0.250	--	1	A
Aroclor 1254	ND		ug/l	0.250	--	1	A
Aroclor 1260	ND		ug/l	0.250	--	1	A
Aroclor 1262	ND		ug/l	0.250	--	1	A
Aroclor 1268	ND		ug/l	0.250	--	1	A
PCBs, Total	ND		ug/l	0.250	--	1	A

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	68		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/14/18 19:05
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 11/10/18 13:42
Cleanup Method: EPA 3665A
Cleanup Date: 11/11/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 09 Batch: WG1178172-1						
Aroclor 1016	ND		ug/l	0.250	--	A
Aroclor 1221	ND		ug/l	0.250	--	A
Aroclor 1232	ND		ug/l	0.250	--	A
Aroclor 1242	ND		ug/l	0.250	--	A
Aroclor 1248	ND		ug/l	0.250	--	A
Aroclor 1254	ND		ug/l	0.250	--	A
Aroclor 1260	ND		ug/l	0.250	--	A
Aroclor 1262	ND		ug/l	0.250	--	A
Aroclor 1268	ND		ug/l	0.250	--	A
PCBs, Total	ND		ug/l	0.250	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	58		30-150	A

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 11/15/18 03:55
Analyst: KB

Extraction Method: EPA 3540C
Extraction Date: 11/10/18 14:55
Cleanup Method: EPA 3665A
Cleanup Date: 11/11/18
Cleanup Method: EPA 3660B
Cleanup Date: 11/11/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-08 Batch: WG1178187-1						
Aroclor 1016	ND		ug/kg	31.3	--	A
Aroclor 1221	ND		ug/kg	31.3	--	A
Aroclor 1232	ND		ug/kg	31.3	--	A
Aroclor 1242	ND		ug/kg	31.3	--	A
Aroclor 1248	ND		ug/kg	31.3	--	A
Aroclor 1254	ND		ug/kg	31.3	--	A
Aroclor 1260	ND		ug/kg	31.3	--	A
Aroclor 1262	ND		ug/kg	31.3	--	A
Aroclor 1268	ND		ug/kg	31.3	--	A
PCBs, Total	ND		ug/kg	31.3	--	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	92		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: MASON STATION

Project Number: 171.06108

Lab Number: L1845807

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): 09 Batch: WG1178172-2 WG1178172-3									
Aroclor 1016	74		75		40-140	2		50	A
Aroclor 1260	63		64		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	58		55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		67		30-150	A
Decachlorobiphenyl	50		49		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
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): 01-08 Batch: WG1178187-2 WG1178187-3									
Aroclor 1016	90		89		40-140	1		50	A
Aroclor 1260	76		78		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		99		30-150	B
Decachlorobiphenyl	102		105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		92		30-150	A
Decachlorobiphenyl	88		88		30-150	A

INORGANICS & MISCELLANEOUS

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-01
Client ID: SS301
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 11:25
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.1		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-02
Client ID: SS302
Sample Location: WISCASSET, ME

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-03
Client ID: SS303
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 11:35
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.8		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-04
Client ID: SS304
Sample Location: WISCASSET, ME

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-05
Client ID: SS305
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:45
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.5		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-06
 Client ID: SS306
 Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:50
 Date Received: 11/08/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.7		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-07
Client ID: SS307
Sample Location: WISCASSET, ME

Date Collected: 11/05/18 12:55
Date Received: 11/08/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.0		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
Report Date: 11/16/18

SAMPLE RESULTS

Lab ID: L1845807-08
Client ID: SS308
Sample Location: WISCASSET, ME

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

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.3		%	0.100	NA	1	-	11/10/18 10:39	121,2540G	RI



Project Name: MASON STATION
Project Number: 171.06108

Serial_No:11161816:57
Lab Number: L1845807
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(*)
L1845807-01A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-02A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-03A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-04A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-05A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-06A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-07A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-08A	Glass 60mL/2oz unpreserved	A	NA		4.1	Y	Absent		ME-TS-2540(7),PCB-8082-3540C(14)
L1845807-09A	Amber 1000ml unpreserved	A	6	6	4.1	Y	Absent		PCB-8082(7)
L1845807-09B	Amber 1000ml unpreserved	A	6	6	4.1	Y	Absent		PCB-8082(7)

*Values in parentheses indicate holding time in days



Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
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
Project Number: 171.06108

Lab Number: L1845807
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 exceedances 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.

Project Name: MASON STATION
Project Number: 171.06108

Lab Number: L1845807
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.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

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, SM4500CI-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.



CHAIN OF CUSTODY

PAGE 1 OF 1

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

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Date Rec'd in Lab: 11/9/18

ALPHA Job #: L1845807

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 #:

Report Information - Data Deliverables
 ADEX EMAIL
 Same as Client Info PQ#: 11375

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 MEDEP Criteria Residential

Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 Date Due:

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15	EPH: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPI3	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	PCB: <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	SAMPLE INFO Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do	TOTAL # BOTTLES
							Sample Comments		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
45807-01	SS301	11/5/18	11:25	S	EPP
02	SS302	11/5/18	11:30	S	EPP
03	SS303	11/5/18	11:35	S	EPP
04	SS304	11/5/18	11:40	S	EPP
05	SS305	11/5/18	12:45	S	EPP
06	SS306	11/5/18	12:50	S	EPP
07	SS307	11/5/18	12:55	S	EPP
08	SS308	11/5/18	13:00	S	EPP
09	Equipment Blank	11/5/18	12:30	DW	EPP

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= HNO3
 D= H2SO4
 E= NaOH
 F= MeOH
 G= NaHSO4
 H= Na2S2O8
 I= Ascorbic Acid
 J= NH4Cl
 K= Zn Acetate
 O= Other

Container Type: A
 Preservative: A

Relinquished By: Erik Plummer
 Date/Time: 11/8/18 1330

Received By: Rob Maerck
 Date/Time: 11-8-18 1930

Received By: J3.
 Date/Time: 11-9-18 1930

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
 FORM NO: 01-01 (rev. 12-Mar-2012)

ATTACHMENT B

Decontamination Protocol

Revised Work Plan
Performance-Based Disposal of Polychlorinated Biphenyl Remediation Waste
Exterior Transformer Enclosures
Mason Station Powerhouse
Wiscasset, Maine

Movable Equipment, Tools, and Sampling Equipment Decontamination Procedures

Scope:

Any movable equipment, tools, or sampling equipment which becomes contaminated with PCBs during the cleanup will be decontaminated through self-implementing decontamination procedures (§761.79(c)(2)(i)). The surfaces of the equipment that have been in contact with PCBs will be swabbed using a solvent.

Procedure:

1. In accordance with §761.79(e), a decontamination area will be setup so that PCBs will not be released to the environment from the decontamination area.
2. Personal protective clothing or equipment will be used to protect participants from dermal contact or inhalation of PCBs or materials containing PCBs.
3. Equipment will be wiped free of dirt and debris.
4. Using a solvent as appropriate, the equipment will be swabbed as necessary to decontaminate the equipment.
5. The decontamination will be documented in writing and using photographs or video recordings and maintained for 3 years following the decontamination procedures.
6. Decontamination waste and residues will be disposed of at their existing PCB concentrations in accordance with §761.79(g).
7. Non-liquid cleaning materials and personal protective equipment resulting from decontamination will be disposed of in accordance with §761.61(a)(5)(v).