



ATLANTIC TESTING LABORATORIES

WBE certified company

Canton
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December 19, 2022

Air Products & Chemicals Inc.
1940 Air Products Boulevard
Allentown, Pennsylvania 18106

Attn: Jonathan Traynor
Sr. Project Manager

Re: Soil Sampling and Analysis Services
Proposed Hydrogen Plant Site
Massena, New York
ATL Report No. CD10427CE-02-12-22

At the request of representatives of Air Products & Chemicals Inc., and in accordance with Atlantic Testing Laboratories, Limited (ATL) contract number CD998-1797-08-22 Addendum 1, dated October 12, 2022, soil sampling was performed at the subject site on December 2, 2022. The sampling and subsequent laboratory analysis were conducted to evaluate the presence or absence of designated contaminants of concern at the Proposed Hydrogen Plant Site.

Soil Sampling and Analysis

The sampling event on December 2, 2022, included the collection of 7 grab soil samples from bore locations at the Proposed Hydrogen Plant Site off Pontoon Bridge Road, Massena, New York. The samples were collected in general accordance with New York State Department of Environmental Conservation (NYSDEC) soil sampling guidelines. The boring samples were identified as Boring 102 0-2', Boring 105 0-2', Boring 107 0-2', Boring 110 0-2', Boring 114 0-2', Boring 115 0-2', and Boring 116 0-2'.

The samples were collected in clean laboratory glassware, with Teflon-lined lids, in accordance with industry standard protocol and applicable NYSDEC guidelines. Disposable sampling equipment (i.e., plastic bags and nitrile gloves) was utilized to collect the samples. Samples were stored in a cooler, with ice, and delivered to the laboratory.

The samples were submitted to Alpha Analytical, located in Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory (ELAP No. 11148). The grab samples were laboratory analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (semi-VOC), pesticides, herbicides, polychlorinated biphenyls (PCB), and target analyte list (TAL) metals. A copy of the laboratory report and associated sample custody documentation for the referenced samples is contained in Attachment A. A tabular summary of laboratory analysis results, with comparison to NYSDEC Unrestricted Use Soil Cleanup Objectives (SCO), is provided in Table B-1 of Attachment B.

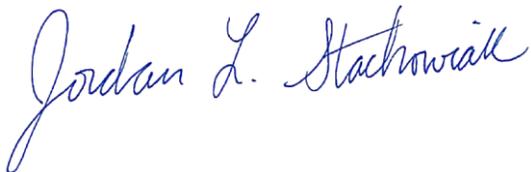
Summary of Findings

ATL performed sampling at the Proposed Hydrogen Plant Site in Massena, New York, as directed by Air Products & Chemicals Inc. Laboratory analysis of the grab soil samples identified some TAL metals at detectible concentrations, and boring 102 detected some semi-VOC. Aluminum and Iron were detected at concentrations exceeding NYSDEC Soil Cleanup Objectives (SCO) for one or more of the samples. The remaining detected concentrations did not exceed the Unrestricted Use SCO established by the NYSDEC.

It is noted that ATL cannot warrant similar conditions would be encountered in other areas not specifically sampled.

Please contact our office should you have any questions, or if we may be of further assistance.

Sincerely,
ATLANTIC TESTING LABORATORIES, Limited



Jordan L. Stachowiak
Project Scientist

JLS/CJD/gh

ATTACHMENT A
LABORATORY REPORT AND
ASSOCIATED SAMPLE CUSTODY DOCUMENTATION



ANALYTICAL REPORT

Lab Number:	L2268262
Client:	Atlantic Testing Laboratories, Limited 6431 US Highway 11 PO Box 29 Canton, NY 13617
ATTN:	Adam Schneider
Phone:	(315) 386-4578
Project Name:	SAMPLING & ANALYSIS
Project Number:	CD10427
Report Date:	12/13/22

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: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2268262-01	BORING 102 0-2"	SOIL	MASSENA, NY	12/02/22 15:45	12/06/22
L2268262-02	BORING 105 0-2"	SOIL	MASSENA, NY	12/02/22 14:45	12/06/22
L2268262-03	BORING 107 0-2"	SOIL	MASSENA, NY	12/02/22 14:52	12/06/22
L2268262-04	BORING 110 0-2"	SOIL	MASSENA, NY	12/02/22 15:30	12/06/22
L2268262-05	BORING 114 0-2"	SOIL	MASSENA, NY	12/02/22 15:05	12/06/22
L2268262-06	BORING 115 0-2"	SOIL	MASSENA, NY	12/02/22 15:10	12/06/22
L2268262-07	BORING 116 0-2"	SOIL	MASSENA, NY	12/02/22 15:17	12/06/22

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Case Narrative

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

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

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

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

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

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

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2268262-01 and -03: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L2268262-01 through -07: The samples have elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1721485-3 MS recoveries for aluminum (518%), calcium (57%), iron (2280%) and manganese (241%), performed on L2268262-01, do not apply because the sample concentration is greater than four times the spike amount added.

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:

 Caitlin Walukevich

Title: Technical Director/Representative

Date: 12/13/22

ORGANICS

VOLATILES

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/11/22 17:17
 Analyst: JIC
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.5	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.63	0.17	1

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.82	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	100	44.	1
Freon-113	ND		ug/kg	5.1	0.88	1
Methyl cyclohexane	ND		ug/kg	5.1	0.76	1

Project Name: SAMPLING & ANALYSIS**Lab Number:** L2268262**Project Number:** CD10427**Report Date:** 12/13/22**SAMPLE RESULTS**

Lab ID: L2268262-01

Date Collected: 12/02/22 15:45

Client ID: BORING 102 0-2"

Date Received: 12/06/22

Sample Location: MASSENA, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 12/11/22 16:50
 Analyst: JIC
 Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.75	0.29	1
Chlorobenzene	ND		ug/kg	0.75	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.25	1
Bromodichloromethane	ND		ug/kg	0.75	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.25	1
Benzene	ND		ug/kg	0.75	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	ND		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.21	1
Trichloroethene	ND		ug/kg	0.75	0.21	1

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
Client ID: BORING 107 0-2"
Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
Date Received: 12/06/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.84	1
o-Xylene	ND		ug/kg	1.5	0.44	1
Xylenes, Total	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.21	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.2	1
Carbon disulfide	ND		ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.31	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	ND		ug/kg	6.0	0.98	1
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
Methyl Acetate	ND		ug/kg	6.0	1.4	1
Cyclohexane	ND		ug/kg	15	0.82	1
1,4-Dioxane	ND		ug/kg	120	53.	1
Freon-113	ND		ug/kg	6.0	1.0	1
Methyl cyclohexane	ND		ug/kg	6.0	0.91	1

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/11/22 16:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03 Batch: WG1722081-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/11/22 16:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03 Batch: WG1722081-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/11/22 16:23
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03 Batch: WG1722081-5					
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1722081-3 WG1722081-4								
Methylene chloride	87		85		70-130	2		30
1,1-Dichloroethane	93		92		70-130	1		30
Chloroform	93		91		70-130	2		30
Carbon tetrachloride	99		97		70-130	2		30
1,2-Dichloropropane	90		89		70-130	1		30
Dibromochloromethane	88		88		70-130	0		30
1,1,2-Trichloroethane	92		90		70-130	2		30
Tetrachloroethene	97		96		70-130	1		30
Chlorobenzene	95		95		70-130	0		30
Trichlorofluoromethane	100		99		70-139	1		30
1,2-Dichloroethane	87		85		70-130	2		30
1,1,1-Trichloroethane	98		96		70-130	2		30
Bromodichloromethane	90		89		70-130	1		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	93		90		70-130	3		30
Bromoform	94		92		70-130	2		30
1,1,2,2-Tetrachloroethane	89		86		70-130	3		30
Benzene	93		92		70-130	1		30
Toluene	95		94		70-130	1		30
Ethylbenzene	95		94		70-130	1		30
Chloromethane	98		96		52-130	2		30
Bromomethane	111		112		57-147	1		30
Vinyl chloride	93		93		67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1722081-3 WG1722081-4								
Chloroethane	87		86		50-151	1		30
1,1-Dichloroethene	97		97		65-135	0		30
trans-1,2-Dichloroethene	95		93		70-130	2		30
Trichloroethene	85		85		70-130	0		30
1,2-Dichlorobenzene	93		93		70-130	0		30
1,3-Dichlorobenzene	94		93		70-130	1		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	86		84		66-130	2		30
p/m-Xylene	97		96		70-130	1		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	93		91		70-130	2		30
Styrene	92		91		70-130	1		30
Dichlorodifluoromethane	101		100		30-146	1		30
Acetone	86		82		54-140	5		30
Carbon disulfide	88		87		59-130	1		30
2-Butanone	79		76		70-130	4		30
4-Methyl-2-pentanone	88		85		70-130	3		30
2-Hexanone	78		76		70-130	3		30
Bromochloromethane	95		92		70-130	3		30
1,2-Dibromoethane	88		87		70-130	1		30
n-Butylbenzene	98		97		70-130	1		30
sec-Butylbenzene	98		97		70-130	1		30
tert-Butylbenzene	95		95		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03 Batch: WG1722081-3 WG1722081-4								
1,2-Dibromo-3-chloropropane	92		93		68-130	1		30
Isopropylbenzene	93		93		70-130	0		30
p-Isopropyltoluene	96		96		70-130	0		30
Naphthalene	88		88		70-130	0		30
n-Propylbenzene	93		93		70-130	0		30
1,2,3-Trichlorobenzene	95		94		70-130	1		30
1,2,4-Trichlorobenzene	99		98		70-130	1		30
1,3,5-Trimethylbenzene	93		93		70-130	0		30
1,2,4-Trimethylbenzene	92		91		70-130	1		30
Methyl Acetate	80		77		51-146	4		30
Cyclohexane	96		94		59-142	2		30
1,4-Dioxane	93		90		65-136	3		30
Freon-113	105		104		50-139	1		30
Methyl cyclohexane	98		96		70-130	2		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	98		96		70-130

SEMIVOLATILES

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/10/22 06:55
 Analyst: MG
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 12/09/22 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	210		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	57.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	100	J	ug/kg	140	26.	1
Benzo(a)pyrene	87	J	ug/kg	180	56.	1
Benzo(b)fluoranthene	110	J	ug/kg	140	38.	1
Benzo(k)fluoranthene	40	J	ug/kg	140	36.	1
Chrysene	92	J	ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	50	J	ug/kg	180	27.	1
Fluorene	ND		ug/kg	230	22.	1
Phenanthrene	140		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	59	J	ug/kg	180	32.	1
Pyrene	160		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	30.	1
4-Chloroaniline	ND		ug/kg	230	41.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	270	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	ND		ug/kg	230	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	39		18-120

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 12/10/22 04:59
 Analyst: MG
 Percent Solids: 63%

Extraction Method: EPA 3546
 Extraction Date: 12/09/22 12:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	200	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	29.	1
Hexachlorobenzene	ND		ug/kg	150	29.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	35.	1
2-Chloronaphthalene	ND		ug/kg	260	25.	1
1,2-Dichlorobenzene	ND		ug/kg	260	46.	1
1,3-Dichlorobenzene	ND		ug/kg	260	44.	1
1,4-Dichlorobenzene	ND		ug/kg	260	45.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	68.	1
2,4-Dinitrotoluene	ND		ug/kg	260	51.	1
2,6-Dinitrotoluene	ND		ug/kg	260	44.	1
Fluoranthene	ND		ug/kg	150	29.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	27.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	39.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	44.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	26.	1
Hexachlorobutadiene	ND		ug/kg	260	38.	1
Hexachlorocyclopentadiene	ND		ug/kg	730	230	1
Hexachloroethane	ND		ug/kg	200	42.	1
Isophorone	ND		ug/kg	230	33.	1
Naphthalene	ND		ug/kg	260	31.	1
Nitrobenzene	ND		ug/kg	230	38.	1
NDPA/DPA	ND		ug/kg	200	29.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	40.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	260	89.	1
Butyl benzyl phthalate	ND		ug/kg	260	65.	1
Di-n-butylphthalate	ND		ug/kg	260	49.	1
Di-n-octylphthalate	ND		ug/kg	260	87.	1

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	260	24.	1
Dimethyl phthalate	ND		ug/kg	260	54.	1
Benzo(a)anthracene	ND		ug/kg	150	29.	1
Benzo(a)pyrene	ND		ug/kg	200	63.	1
Benzo(b)fluoranthene	ND		ug/kg	150	43.	1
Benzo(k)fluoranthene	ND		ug/kg	150	41.	1
Chrysene	ND		ug/kg	150	27.	1
Acenaphthylene	ND		ug/kg	200	40.	1
Anthracene	ND		ug/kg	150	50.	1
Benzo(ghi)perylene	ND		ug/kg	200	30.	1
Fluorene	ND		ug/kg	260	25.	1
Phenanthrene	ND		ug/kg	150	31.	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	30.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	36.	1
Pyrene	ND		ug/kg	150	26.	1
Biphenyl	ND		ug/kg	580	33.	1
4-Chloroaniline	ND		ug/kg	260	47.	1
2-Nitroaniline	ND		ug/kg	260	49.	1
3-Nitroaniline	ND		ug/kg	260	48.	1
4-Nitroaniline	ND		ug/kg	260	110	1
Dibenzofuran	ND		ug/kg	260	24.	1
2-Methylnaphthalene	ND		ug/kg	310	31.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	27.	1
Acetophenone	ND		ug/kg	260	32.	1
Benzyl Alcohol	ND		ug/kg	260	78.	1
Carbazole	ND		ug/kg	260	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	44		18-120

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/09/22 06:47
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 12/08/22 14:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1721009-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/09/22 06:47
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 12/08/22 14:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1721009-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/09/22 06:47
Analyst: LJJ

Extraction Method: EPA 3546
Extraction Date: 12/08/22 14:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1721009-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	80		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1721009-2 WG1721009-3								
Acenaphthene	76		64		31-137	17		50
1,2,4-Trichlorobenzene	68		63		38-107	8		50
Hexachlorobenzene	63		64		40-140	2		50
Bis(2-chloroethyl)ether	73		66		40-140	10		50
2-Chloronaphthalene	74		62		40-140	18		50
1,2-Dichlorobenzene	67		62		40-140	8		50
1,3-Dichlorobenzene	66		63		40-140	5		50
1,4-Dichlorobenzene	67		63		28-104	6		50
3,3'-Dichlorobenzidine	55		47		40-140	16		50
2,4-Dinitrotoluene	74		63		40-132	16		50
2,6-Dinitrotoluene	70		59		40-140	17		50
Fluoranthene	77		65		40-140	17		50
4-Chlorophenyl phenyl ether	71		64		40-140	10		50
4-Bromophenyl phenyl ether	67		64		40-140	5		50
Bis(2-chloroisopropyl)ether	81		64		40-140	23		50
Bis(2-chloroethoxy)methane	72		61		40-117	17		50
Hexachlorobutadiene	67		65		40-140	3		50
Hexachlorocyclopentadiene	46		38	Q	40-140	19		50
Hexachloroethane	72		63		40-140	13		50
Isophorone	69		57		40-140	19		50
Naphthalene	73		64		40-140	13		50
Nitrobenzene	71		60		40-140	17		50
NDPA/DPA	74		65		36-157	13		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1721009-2 WG1721009-3								
n-Nitrosodi-n-propylamine	74		61		32-121	19		50
Bis(2-ethylhexyl)phthalate	79		61		40-140	26		50
Butyl benzyl phthalate	76		59		40-140	25		50
Di-n-butylphthalate	79		62		40-140	24		50
Di-n-octylphthalate	77		61		40-140	23		50
Diethyl phthalate	74		61		40-140	19		50
Dimethyl phthalate	68		56		40-140	19		50
Benzo(a)anthracene	77		64		40-140	18		50
Benzo(a)pyrene	74		68		40-140	8		50
Benzo(b)fluoranthene	77		66		40-140	15		50
Benzo(k)fluoranthene	68		66		40-140	3		50
Chrysene	73		65		40-140	12		50
Acenaphthylene	73		61		40-140	18		50
Anthracene	78		66		40-140	17		50
Benzo(ghi)perylene	76		63		40-140	19		50
Fluorene	74		64		40-140	14		50
Phenanthrene	78		64		40-140	20		50
Dibenzo(a,h)anthracene	76		62		40-140	20		50
Indeno(1,2,3-cd)pyrene	84		69		40-140	20		50
Pyrene	78		65		35-142	18		50
Biphenyl	72		60		37-127	18		50
4-Chloroaniline	66		55		40-140	18		50
2-Nitroaniline	69		58		47-134	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1721009-2 WG1721009-3								
3-Nitroaniline	53		48		26-129	10		50
4-Nitroaniline	71		60		41-125	17		50
Dibenzofuran	75		64		40-140	16		50
2-Methylnaphthalene	74		63		40-140	16		50
1,2,4,5-Tetrachlorobenzene	68		62		40-117	9		50
Acetophenone	67		58		14-144	14		50
Benzyl Alcohol	74		61		40-140	19		50
Carbazole	78		64		54-128	20		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		71		25-120
Phenol-d6	78		69		10-120
Nitrobenzene-d5	75		64		23-120
2-Fluorobiphenyl	72		64		30-120
2,4,6-Tribromophenol	58		64		10-136
4-Terphenyl-d14	73		69		18-120

PCBS

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/10/22 10:37
 Analyst: ER
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 12/09/22 15:44
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/09/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0436	0.00387	1	A
Aroclor 1221	ND		mg/kg	0.0436	0.00437	1	A
Aroclor 1232	ND		mg/kg	0.0436	0.00925	1	A
Aroclor 1242	ND		mg/kg	0.0436	0.00588	1	A
Aroclor 1248	ND		mg/kg	0.0436	0.00654	1	A
Aroclor 1254	ND		mg/kg	0.0436	0.00477	1	B
Aroclor 1260	ND		mg/kg	0.0436	0.00806	1	A
Aroclor 1262	ND		mg/kg	0.0436	0.00554	1	A
Aroclor 1268	ND		mg/kg	0.0436	0.00452	1	A
PCBs, Total	ND		mg/kg	0.0436	0.00387	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 12/10/22 10:45
 Analyst: ER
 Percent Solids: 63%

Extraction Method: EPA 3546
 Extraction Date: 12/09/22 15:44
 Cleanup Method: EPA 3665A
 Cleanup Date: 12/09/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0495	0.00440	1	A
Aroclor 1221	ND		mg/kg	0.0495	0.00496	1	A
Aroclor 1232	ND		mg/kg	0.0495	0.0105	1	A
Aroclor 1242	ND		mg/kg	0.0495	0.00667	1	A
Aroclor 1248	ND		mg/kg	0.0495	0.00743	1	A
Aroclor 1254	ND		mg/kg	0.0495	0.00542	1	A
Aroclor 1260	ND		mg/kg	0.0495	0.00915	1	A
Aroclor 1262	ND		mg/kg	0.0495	0.00629	1	A
Aroclor 1268	ND		mg/kg	0.0495	0.00513	1	A
PCBs, Total	ND		mg/kg	0.0495	0.00440	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/10/22 10:13
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 12/09/22 15:44
Cleanup Method: EPA 3665A
Cleanup Date: 12/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,03 Batch: WG1721516-1						
Aroclor 1016	ND		mg/kg	0.0326	0.00290	A
Aroclor 1221	ND		mg/kg	0.0326	0.00327	A
Aroclor 1232	ND		mg/kg	0.0326	0.00692	A
Aroclor 1242	ND		mg/kg	0.0326	0.00440	A
Aroclor 1248	ND		mg/kg	0.0326	0.00490	A
Aroclor 1254	ND		mg/kg	0.0326	0.00357	A
Aroclor 1260	ND		mg/kg	0.0326	0.00604	A
Aroclor 1262	ND		mg/kg	0.0326	0.00415	A
Aroclor 1268	ND		mg/kg	0.0326	0.00338	A
PCBs, Total	ND		mg/kg	0.0326	0.00290	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1721516-2 WG1721516-3									
Aroclor 1016	75		73		40-140	3		50	A
Aroclor 1260	56		54		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		76		30-150	A
Decachlorobiphenyl	58		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		84		30-150	B
Decachlorobiphenyl	70		70		30-150	B

PESTICIDES

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/10/22 13:08
 Analyst: MMG
 Percent Solids: 73%

Extraction Method: EPA 3546
 Extraction Date: 12/09/22 18:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/10/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.16	0.423	1	A
Lindane	ND		ug/kg	0.900	0.402	1	A
Alpha-BHC	ND		ug/kg	0.900	0.256	1	A
Beta-BHC	ND		ug/kg	2.16	0.819	1	A
Heptachlor	ND		ug/kg	1.08	0.484	1	A
Aldrin	ND		ug/kg	2.16	0.760	1	A
Heptachlor epoxide	ND		ug/kg	4.05	1.21	1	A
Endrin	ND		ug/kg	0.900	0.369	1	A
Endrin aldehyde	ND		ug/kg	2.70	0.945	1	A
Endrin ketone	ND		ug/kg	2.16	0.556	1	A
Dieldrin	ND		ug/kg	1.35	0.675	1	A
4,4'-DDE	ND		ug/kg	2.16	0.499	1	A
4,4'-DDD	ND		ug/kg	2.16	0.770	1	A
4,4'-DDT	ND		ug/kg	2.16	1.74	1	A
Endosulfan I	ND		ug/kg	2.16	0.510	1	A
Endosulfan II	ND		ug/kg	2.16	0.722	1	A
Endosulfan sulfate	ND		ug/kg	0.900	0.428	1	A
Methoxychlor	ND		ug/kg	4.05	1.26	1	A
Toxaphene	ND		ug/kg	40.5	11.3	1	A
cis-Chlordane	ND		ug/kg	2.70	0.752	1	A
trans-Chlordane	ND		ug/kg	2.70	0.712	1	A
Chlordane	ND		ug/kg	18.0	7.15	1	A

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/11/22 10:49
 Analyst: MMG
 Percent Solids: 73%
 Methylation Date: 12/10/22 23:55

Extraction Method: EPA 8151A
 Extraction Date: 12/10/22 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	227	14.3	1	A
2,4,5-T	ND		ug/kg	227	7.04	1	A
2,4,5-TP (Silvex)	ND		ug/kg	227	6.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	118		30-150	A
DCAA	111		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 12/10/22 13:20
 Analyst: MMG
 Percent Solids: 63%

Extraction Method: EPA 3546
 Extraction Date: 12/09/22 18:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 12/10/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 12/10/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.46	0.482	1	A
Lindane	ND		ug/kg	1.03	0.459	1	A
Alpha-BHC	ND		ug/kg	1.03	0.291	1	A
Beta-BHC	ND		ug/kg	2.46	0.934	1	A
Heptachlor	ND		ug/kg	1.23	0.552	1	A
Aldrin	ND		ug/kg	2.46	0.867	1	A
Heptachlor epoxide	ND		ug/kg	4.62	1.38	1	A
Endrin	ND		ug/kg	1.03	0.421	1	A
Endrin aldehyde	ND		ug/kg	3.08	1.08	1	A
Endrin ketone	ND		ug/kg	2.46	0.634	1	A
Dieldrin	ND		ug/kg	1.54	0.770	1	A
4,4'-DDE	ND		ug/kg	2.46	0.570	1	A
4,4'-DDD	ND		ug/kg	2.46	0.878	1	A
4,4'-DDT	ND		ug/kg	2.46	1.98	1	A
Endosulfan I	ND		ug/kg	2.46	0.582	1	A
Endosulfan II	ND		ug/kg	2.46	0.823	1	A
Endosulfan sulfate	ND		ug/kg	1.03	0.488	1	A
Methoxychlor	ND		ug/kg	4.62	1.44	1	A
Toxaphene	ND		ug/kg	46.2	12.9	1	A
cis-Chlordane	ND		ug/kg	3.08	0.858	1	A
trans-Chlordane	ND		ug/kg	3.08	0.813	1	A
Chlordane	ND		ug/kg	20.5	8.16	1	A

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/11/22 11:07
 Analyst: MMG
 Percent Solids: 63%
 Methylation Date: 12/10/22 23:55

Extraction Method: EPA 8151A
 Extraction Date: 12/10/22 10:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	259	16.3	1	A
2,4,5-T	ND		ug/kg	259	8.02	1	A
2,4,5-TP (Silvex)	ND		ug/kg	259	6.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	117		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/09/22 20:32
Analyst: MSF

Extraction Method: EPA 3546
Extraction Date: 12/09/22 10:02
Cleanup Method: EPA 3620B
Cleanup Date: 12/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/09/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03 Batch: WG1721381-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.876	A
Endrin	ND		ug/kg	0.649	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	1.56	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.542	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	13.0	5.16	A

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 12/09/22 20:32
Analyst: MSF

Extraction Method: EPA 3546
Extraction Date: 12/09/22 10:02
Cleanup Method: EPA 3620B
Cleanup Date: 12/09/22
Cleanup Method: EPA 3660B
Cleanup Date: 12/09/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,03 Batch: WG1721381-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	116		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/11/22 09:54
Analyst: MMG

Extraction Method: EPA 8151A
Extraction Date: 12/10/22 10:26

Methylation Date: 12/10/22 23:55

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01,03 Batch: WG1721726-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	92		30-150	A
DCAA	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1721381-2 WG1721381-3									
Delta-BHC	110		95		30-150	15		30	A
Lindane	101		87		30-150	15		30	A
Alpha-BHC	103		90		30-150	13		30	A
Beta-BHC	104		89		30-150	16		30	A
Heptachlor	102		89		30-150	14		30	A
Aldrin	94		81		30-150	15		30	A
Heptachlor epoxide	77		67		30-150	14		30	A
Endrin	99		88		30-150	12		30	A
Endrin aldehyde	74		66		30-150	11		30	A
Endrin ketone	100		89		30-150	12		30	A
Dieldrin	105		92		30-150	13		30	A
4,4'-DDE	98		85		30-150	14		30	A
4,4'-DDD	108		95		30-150	13		30	A
4,4'-DDT	106		94		30-150	12		30	A
Endosulfan I	93		82		30-150	13		30	A
Endosulfan II	99		88		30-150	12		30	A
Endosulfan sulfate	87		79		30-150	10		30	A
Methoxychlor	94		84		30-150	11		30	A
cis-Chlordane	85		73		30-150	15		30	A
trans-Chlordane	104		91		30-150	13		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1721381-2 WG1721381-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	91		79		30-150	A
Decachlorobiphenyl	110		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		80		30-150	B
Decachlorobiphenyl	107		91		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01,03 Batch: WG1721726-2 WG1721726-3									
2,4-D	111		135		30-150	20		30	A
2,4,5-T	105		122		30-150	15		30	A
2,4,5-TP (Silvex)	104		121		30-150	15		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	104		118		30-150	A
DCAA	104		123		30-150	B

METALS

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7460		mg/kg	10.6	2.86	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Antimony, Total	1.39	J	mg/kg	5.30	0.403	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Arsenic, Total	4.04		mg/kg	1.06	0.220	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Barium, Total	50.6		mg/kg	1.06	0.184	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.321	J	mg/kg	0.530	0.035	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Cadmium, Total	ND		mg/kg	1.06	0.104	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Calcium, Total	6580		mg/kg	10.6	3.71	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Chromium, Total	12.5		mg/kg	1.06	0.102	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Cobalt, Total	5.00		mg/kg	2.12	0.176	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Copper, Total	14.0		mg/kg	1.06	0.273	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Iron, Total	15800		mg/kg	5.30	0.957	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Lead, Total	25.9		mg/kg	5.30	0.284	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Magnesium, Total	2680		mg/kg	10.6	1.63	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Manganese, Total	244		mg/kg	1.06	0.168	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Mercury, Total	0.095	J	mg/kg	0.105	0.068	1	12/10/22 01:35	12/10/22 14:24	EPA 7471B	1,7471B	DJR
Nickel, Total	9.84		mg/kg	2.65	0.256	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Potassium, Total	869		mg/kg	265	15.2	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	2.12	0.273	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.530	0.300	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Sodium, Total	53.6	J	mg/kg	212	3.34	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.12	0.334	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Vanadium, Total	21.1		mg/kg	1.06	0.215	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW
Zinc, Total	51.6		mg/kg	5.30	0.310	2	12/10/22 00:45	12/12/22 13:57	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-02
 Client ID: BORING 105 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:45
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7930		mg/kg	11.5	3.10	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Antimony, Total	1.06	J	mg/kg	5.74	0.436	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Arsenic, Total	3.72		mg/kg	1.15	0.239	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Barium, Total	53.0		mg/kg	1.15	0.200	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.326	J	mg/kg	0.574	0.038	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Cadmium, Total	0.114	J	mg/kg	1.15	0.112	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Calcium, Total	4540		mg/kg	11.5	4.02	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Chromium, Total	11.8		mg/kg	1.15	0.110	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Cobalt, Total	5.14		mg/kg	2.30	0.191	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Copper, Total	9.99		mg/kg	1.15	0.296	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Iron, Total	14300		mg/kg	5.74	1.04	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Lead, Total	12.4		mg/kg	5.74	0.308	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Magnesium, Total	2200		mg/kg	11.5	1.77	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Manganese, Total	453		mg/kg	1.15	0.183	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Mercury, Total	0.069	J	mg/kg	0.104	0.068	1	12/10/22 01:35	12/10/22 14:28	EPA 7471B	1,7471B	DJR
Nickel, Total	9.33		mg/kg	2.87	0.278	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Potassium, Total	425		mg/kg	287	16.5	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	2.30	0.296	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.574	0.325	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Sodium, Total	44.3	J	mg/kg	230	3.62	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.30	0.362	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Vanadium, Total	20.8		mg/kg	1.15	0.233	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW
Zinc, Total	47.4		mg/kg	5.74	0.336	2	12/10/22 00:45	12/12/22 13:44	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03
 Client ID: BORING 107 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:52
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8560		mg/kg	12.2	3.30	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Antimony, Total	1.14	J	mg/kg	6.11	0.464	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Arsenic, Total	3.82		mg/kg	1.22	0.254	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Barium, Total	55.8		mg/kg	1.22	0.212	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.340	J	mg/kg	0.611	0.040	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Cadmium, Total	0.172	J	mg/kg	1.22	0.120	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Calcium, Total	5320		mg/kg	12.2	4.28	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Chromium, Total	15.4		mg/kg	1.22	0.117	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Cobalt, Total	4.30		mg/kg	2.44	0.203	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Copper, Total	11.3		mg/kg	1.22	0.315	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Iron, Total	14200		mg/kg	6.11	1.10	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Lead, Total	15.8		mg/kg	6.11	0.327	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Magnesium, Total	2520		mg/kg	12.2	1.88	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Manganese, Total	352		mg/kg	1.22	0.194	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Mercury, Total	0.101	J	mg/kg	0.120	0.078	1	12/10/22 01:35	12/10/22 14:38	EPA 7471B	1,7471B	DJR
Nickel, Total	11.3		mg/kg	3.05	0.296	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Potassium, Total	434		mg/kg	305	17.6	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	2.44	0.315	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.611	0.346	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Sodium, Total	45.4	J	mg/kg	244	3.85	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.44	0.385	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Vanadium, Total	21.6		mg/kg	1.22	0.248	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW
Zinc, Total	41.6		mg/kg	6.11	0.358	2	12/10/22 00:45	12/12/22 13:49	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS**Lab Number:** L2268262**Project Number:** CD10427**Report Date:** 12/13/22**SAMPLE RESULTS**

Lab ID: L2268262-04
 Client ID: BORING 110 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:30
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 57%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12600		mg/kg	13.6	3.66	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Antimony, Total	1.66	J	mg/kg	6.78	0.515	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Arsenic, Total	5.93		mg/kg	1.36	0.282	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Barium, Total	100		mg/kg	1.36	0.236	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.720		mg/kg	0.678	0.045	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Cadmium, Total	ND		mg/kg	1.36	0.133	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Calcium, Total	9350		mg/kg	13.6	4.74	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Chromium, Total	20.5		mg/kg	1.36	0.130	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Cobalt, Total	5.07		mg/kg	2.71	0.225	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Copper, Total	23.0		mg/kg	1.36	0.350	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Iron, Total	18900		mg/kg	6.78	1.22	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Lead, Total	24.4		mg/kg	6.78	0.363	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Magnesium, Total	3810		mg/kg	13.6	2.09	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Manganese, Total	110		mg/kg	1.36	0.215	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Mercury, Total	0.204		mg/kg	0.129	0.084	1	12/10/22 01:35	12/10/22 14:41	EPA 7471B	1,7471B	DJR
Nickel, Total	14.7		mg/kg	3.39	0.328	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Potassium, Total	709		mg/kg	339	19.5	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Selenium, Total	0.453	J	mg/kg	2.71	0.350	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.678	0.384	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Sodium, Total	47.8	J	mg/kg	271	4.27	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.71	0.427	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Vanadium, Total	34.2		mg/kg	1.36	0.275	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW
Zinc, Total	54.7		mg/kg	6.78	0.397	2	12/10/22 00:45	12/12/22 13:53	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-05
 Client ID: BORING 114 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:05
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7110		mg/kg	13.7	3.69	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Antimony, Total	1.15	J	mg/kg	6.83	0.519	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Arsenic, Total	6.96		mg/kg	1.37	0.284	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Barium, Total	81.2		mg/kg	1.37	0.238	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.409	J	mg/kg	0.683	0.045	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Cadmium, Total	ND		mg/kg	1.37	0.134	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Calcium, Total	5940		mg/kg	13.7	4.78	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Chromium, Total	9.97		mg/kg	1.37	0.131	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Cobalt, Total	6.02		mg/kg	2.73	0.227	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Copper, Total	12.6		mg/kg	1.37	0.352	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Iron, Total	17200		mg/kg	6.83	1.23	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Lead, Total	22.3		mg/kg	6.83	0.366	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Magnesium, Total	2360		mg/kg	13.7	2.10	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Manganese, Total	852		mg/kg	1.37	0.217	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Mercury, Total	0.099	J	mg/kg	0.122	0.080	1	12/10/22 01:35	12/10/22 14:44	EPA 7471B	1,7471B	DJR
Nickel, Total	10.7		mg/kg	3.42	0.331	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Potassium, Total	393		mg/kg	342	19.7	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	2.73	0.352	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.683	0.387	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Sodium, Total	30.6	J	mg/kg	273	4.30	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.73	0.430	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Vanadium, Total	23.2		mg/kg	1.37	0.277	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW
Zinc, Total	41.3		mg/kg	6.83	0.400	2	12/10/22 00:45	12/12/22 14:28	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-06

Date Collected: 12/02/22 15:10

Client ID: BORING 115 0-2"

Date Received: 12/06/22

Sample Location: MASSENA, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8280		mg/kg	11.5	3.11	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Antimony, Total	1.25	J	mg/kg	5.76	0.438	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Arsenic, Total	4.08		mg/kg	1.15	0.240	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Barium, Total	44.4		mg/kg	1.15	0.200	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.312	J	mg/kg	0.576	0.038	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Cadmium, Total	ND		mg/kg	1.15	0.113	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Calcium, Total	3630		mg/kg	11.5	4.03	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Chromium, Total	9.81		mg/kg	1.15	0.110	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Cobalt, Total	4.39		mg/kg	2.30	0.191	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Copper, Total	9.90		mg/kg	1.15	0.297	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Iron, Total	14500		mg/kg	5.76	1.04	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Lead, Total	15.3		mg/kg	5.76	0.308	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Magnesium, Total	1680		mg/kg	11.5	1.77	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Manganese, Total	267		mg/kg	1.15	0.183	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Mercury, Total	ND		mg/kg	0.121	0.079	1	12/10/22 01:35	12/10/22 14:48	EPA 7471B	1,7471B	DJR
Nickel, Total	8.66		mg/kg	2.88	0.279	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Potassium, Total	342		mg/kg	288	16.6	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	2.30	0.297	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.576	0.326	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Sodium, Total	35.0	J	mg/kg	230	3.63	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.30	0.363	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Vanadium, Total	22.0		mg/kg	1.15	0.234	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW
Zinc, Total	31.2		mg/kg	5.76	0.337	2	12/10/22 00:45	12/12/22 14:32	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS**Lab Number:** L2268262**Project Number:** CD10427**Report Date:** 12/13/22**SAMPLE RESULTS**

Lab ID: L2268262-07
 Client ID: BORING 116 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:17
 Date Received: 12/06/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7820		mg/kg	11.2	3.02	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Antimony, Total	1.04	J	mg/kg	5.59	0.424	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Arsenic, Total	3.14		mg/kg	1.12	0.232	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Barium, Total	44.7		mg/kg	1.12	0.194	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.307	J	mg/kg	0.559	0.037	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Cadmium, Total	0.146	J	mg/kg	1.12	0.109	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Calcium, Total	3360		mg/kg	11.2	3.91	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Chromium, Total	10.2		mg/kg	1.12	0.107	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Cobalt, Total	3.75		mg/kg	2.23	0.185	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Copper, Total	8.02		mg/kg	1.12	0.288	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Iron, Total	12400		mg/kg	5.59	1.01	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Lead, Total	10.5		mg/kg	5.59	0.299	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Magnesium, Total	1720		mg/kg	11.2	1.72	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Manganese, Total	270		mg/kg	1.12	0.178	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Mercury, Total	ND		mg/kg	0.093	0.061	1	12/10/22 01:35	12/10/22 14:51	EPA 7471B	1,7471B	DJR
Nickel, Total	8.00		mg/kg	2.79	0.270	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Potassium, Total	391		mg/kg	279	16.1	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	2.23	0.288	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.559	0.316	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Sodium, Total	36.3	J	mg/kg	223	3.52	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	2.23	0.352	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Vanadium, Total	18.9		mg/kg	1.12	0.227	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW
Zinc, Total	34.2		mg/kg	5.59	0.327	2	12/10/22 00:45	12/12/22 14:37	EPA 3050B	1,6010D	EGW



Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1721485-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Barium, Total	ND		mg/kg	0.400	0.070	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Chromium, Total	ND		mg/kg	0.400	0.038	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Copper, Total	ND		mg/kg	0.400	0.103	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Iron, Total	0.820	J	mg/kg	2.00	0.361	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Lead, Total	ND		mg/kg	2.00	0.107	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Manganese, Total	0.112	J	mg/kg	0.400	0.064	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Potassium, Total	6.45	J	mg/kg	100	5.76	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Silver, Total	ND		mg/kg	0.200	0.113	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Sodium, Total	9.05	J	mg/kg	80.0	1.26	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/10/22 00:45	12/12/22 13:30	1,6010D	EGW

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1721486-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/10/22 01:35	12/10/22 14:05	1,7471B	DJR



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Project Number: CD10427

Lab Number: L2268262

Report Date: 12/13/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1721485-2 SRM Lot Number: D116-540								
Aluminum, Total	68		-		45-155	-		
Antimony, Total	132		-		2-205	-		
Arsenic, Total	97		-		82-119	-		
Barium, Total	86		-		82-118	-		
Beryllium, Total	88		-		82-118	-		
Cadmium, Total	92		-		82-118	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	85		-		81-118	-		
Cobalt, Total	91		-		83-117	-		
Copper, Total	89		-		83-117	-		
Iron, Total	90		-		58-142	-		
Lead, Total	91		-		83-117	-		
Magnesium, Total	81		-		75-125	-		
Manganese, Total	86		-		82-118	-		
Nickel, Total	90		-		82-118	-		
Potassium, Total	79		-		68-131	-		
Selenium, Total	98		-		78-122	-		
Silver, Total	92		-		79-121	-		
Sodium, Total	100		-		71-130	-		
Thallium, Total	96		-		80-120	-		
Vanadium, Total	87		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Project Number: CD10427

Lab Number: L2268262

Report Date: 12/13/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1721485-2 SRM Lot Number: D116-540					
Zinc, Total	93	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1721486-2 SRM Lot Number: D116-540					
Mercury, Total	94	-	58-142	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721485-3 QC Sample: L2268262-01 Client ID: BORING 102 0-2"												
Aluminum, Total	7460	211	8550	518	Q	-	-		75-125	-		20
Antimony, Total	1.39J	52.6	48.4	92		-	-		75-125	-		20
Arsenic, Total	4.04	12.6	17.7	108		-	-		75-125	-		20
Barium, Total	50.6	211	255	97		-	-		75-125	-		20
Beryllium, Total	0.321J	5.26	5.36	102		-	-		75-125	-		20
Cadmium, Total	ND	5.58	5.10	91		-	-		75-125	-		20
Calcium, Total	6580	1050	7180	57	Q	-	-		75-125	-		20
Chromium, Total	12.5	21.1	32.8	96		-	-		75-125	-		20
Cobalt, Total	5.00	52.6	52.8	91		-	-		75-125	-		20
Copper, Total	14.0	26.3	38.3	92		-	-		75-125	-		20
Iron, Total	15800	105	18200	2280	Q	-	-		75-125	-		20
Lead, Total	25.9	55.8	78.2	94		-	-		75-125	-		20
Magnesium, Total	2680	1050	3850	111		-	-		75-125	-		20
Manganese, Total	244	52.6	371	241	Q	-	-		75-125	-		20
Nickel, Total	9.84	52.6	57.3	90		-	-		75-125	-		20
Potassium, Total	869	1050	1990	106		-	-		75-125	-		20
Selenium, Total	ND	12.6	12.6	100		-	-		75-125	-		20
Silver, Total	ND	31.6	29.9	95		-	-		75-125	-		20
Sodium, Total	53.6J	1050	1130	107		-	-		75-125	-		20
Thallium, Total	ND	12.6	11.3	89		-	-		75-125	-		20
Vanadium, Total	21.1	52.6	72.4	97		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721485-3 QC Sample: L2268262-01 Client ID: BORING 102 0-2"									
Zinc, Total	51.6	52.6	101	94	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721486-3 QC Sample: L2268949-01 Client ID: MS Sample									
Mercury, Total	ND	1.6	1.59	100	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Project Number: CD10427

Lab Number: L2268262

Report Date: 12/13/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721485-4 QC Sample: L2268262-01 Client ID: BORING 102 0-2"						
Aluminum, Total	7460	7650	mg/kg	3		20
Antimony, Total	1.39J	1.64J	mg/kg	NC		20
Arsenic, Total	4.04	3.80	mg/kg	6		20
Barium, Total	50.6	53.2	mg/kg	5		20
Beryllium, Total	0.321J	0.330J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	6580	6450	mg/kg	2		20
Chromium, Total	12.5	12.8	mg/kg	2		20
Cobalt, Total	5.00	4.96	mg/kg	1		20
Copper, Total	14.0	14.7	mg/kg	5		20
Iron, Total	15800	16000	mg/kg	1		20
Lead, Total	25.9	27.3	mg/kg	5		20
Magnesium, Total	2680	2580	mg/kg	4		20
Manganese, Total	244	245	mg/kg	0		20
Nickel, Total	9.84	9.69	mg/kg	2		20
Potassium, Total	869	896	mg/kg	3		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	53.6J	53.8J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Project Number: CD10427

Lab Number: L2268262

Report Date: 12/13/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721485-4 QC Sample: L2268262-01 Client ID: BORING 102 0-2"					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	21.1	21.6	mg/kg	2	20
Zinc, Total	51.6	54.1	mg/kg	5	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721486-4 QC Sample: L2268949-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

Project Name: SAMPLING & ANALYSIS

Project Number: CD10427

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2268262

Report Date: 12/13/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1721485-6 QC Sample: L2268262-01 Client ID: BORING 102 0-2"						
Aluminum, Total	7460	7590	mg/kg	2		20
Barium, Total	50.6	51.2	mg/kg	1		20
Calcium, Total	6580	6770	mg/kg	3		20
Iron, Total	15800	16300	mg/kg	3		20
Magnesium, Total	2680	2740	mg/kg	2		20
Manganese, Total	244	253	mg/kg	4		20

INORGANICS & MISCELLANEOUS

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-01
 Client ID: BORING 102 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:45
 Date Received: 12/06/22
 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	72.6		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-02
 Client ID: BORING 105 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 14:45
 Date Received: 12/06/22
 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	69.6		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-03

Date Collected: 12/02/22 14:52

Client ID: BORING 107 0-2"

Date Received: 12/06/22

Sample Location: MASSENA, NY

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	63.4		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-04

Date Collected: 12/02/22 15:30

Client ID: BORING 110 0-2"

Date Received: 12/06/22

Sample Location: MASSENA, NY

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	56.8		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-05

Date Collected: 12/02/22 15:05

Client ID: BORING 114 0-2"

Date Received: 12/06/22

Sample Location: MASSENA, NY

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	55.7		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Lab Number: L2268262
Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-06
 Client ID: BORING 115 0-2"
 Sample Location: MASSENA, NY

Date Collected: 12/02/22 15:10
 Date Received: 12/06/22
 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	66.6		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Project Name: SAMPLING & ANALYSIS

Lab Number: L2268262

Project Number: CD10427

Report Date: 12/13/22

SAMPLE RESULTS

Lab ID: L2268262-07

Date Collected: 12/02/22 15:17

Client ID: BORING 116 0-2"

Date Received: 12/06/22

Sample Location: MASSENA, NY

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	70.2		%	0.100	NA	1	-	12/09/22 10:59	121,2540G	GG



Lab Duplicate Analysis

Batch Quality Control

Project Name: SAMPLING & ANALYSIS

Project Number: CD10427

Lab Number: L2268262

Report Date: 12/13/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1721416-1 QC Sample: L2268262-01 Client ID: BORING 102 0-2"						
Solids, Total	72.6	73.4	%	1		20

Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Serial_No:12132211:19
Lab Number: L2268262
Report Date: 12/13/22

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(*)
L2268262-01A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2268262-01B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2268262-01C	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2268262-01D	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2268262-01E	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2268262-01X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2268262-01Y	Vial Water preserved split	A	NA		2.2	Y	Absent	10-DEC-22 11:24	NYTCL-8260-R2(14)
L2268262-01Z	Vial Water preserved split	A	NA		2.2	Y	Absent	10-DEC-22 11:24	NYTCL-8260-R2(14)
L2268262-02A	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MN-TI(180),MG-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2268262-02B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2268262-03A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2268262-03B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2268262-03C	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2268262-03D	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)

*Values in parentheses indicate holding time in days



Project Name: SAMPLING & ANALYSIS
Project Number: CD10427

Serial_No: 12132211:19
Lab Number: L2268262
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2268262-03E	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2268262-03X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2268262-03Y	Vial Water preserved split	A	NA		2.2	Y	Absent	10-DEC-22 11:24	NYTCL-8260-R2(14)
L2268262-03Z	Vial Water preserved split	A	NA		2.2	Y	Absent	10-DEC-22 11:24	NYTCL-8260-R2(14)
L2268262-04A	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2268262-04B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2268262-05A	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2268262-05B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2268262-06A	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2268262-06B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2268262-07A	Glass 60ml unpreserved split	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2268262-07B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		TS(7)

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GLOSSARY

Acronyms

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

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Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

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Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

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Lab Number: L2268262
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REFERENCES

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

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

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, SM4500NO2-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, **LCHAT 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, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



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Project No.		Client Name		QA/QC Code		Parameters					Report Distribution	
CD10427		Air Products		<input type="checkbox"/> NYSDEC <input type="checkbox"/> SW-846 <input type="checkbox"/> NYSDOH <input type="checkbox"/> CLP <input type="checkbox"/> Other		VOC-EPA Method 8260 SVOC-EPA Method 8270 (B/N) Pesticides/PCB-EPA Method 8081/2 Heavy Metals-EPA Method 8151 TAL Metals					TAT Required: <input type="checkbox"/> 6hr <input type="checkbox"/> 12hr <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 5day <input type="checkbox"/> 10day <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Other 1-week	
Page 1 of 1		ATL Project Contact: Adam Schneider		Project Location		Notes		E-mail Results:		Laboratory Sample ID No.		
Project Name: Sampling & Analysis		Massena, NY		Date Time Field Sample No. Sample Location Sample Type No. of Containers		@atlantictesting.com T. Hunter Thomas A. Hunter		@atlantictesting.com T. Hunter Thomas A. Hunter		Laboratory Sample ID No.		
Date		Time		Field Sample No.		Sample Location		Sample Type		No. of Containers		
12/2/22		1545		-		Boring 102 0-2"		S/G		5		
12/2/22		1445		-		Boring 105 0-2"		S/G		1		
12/2/22		1452		-		Boring 107 0-2"		S/G		5		
12/2/22		1530		-		Boring 110 0-2"		S/G		1		
12/2/22		1505		-		Boring 114 0-2"		S/G		1		
12/2/22		1510		-		Boring 115 0-2"		S/G		1		
12/2/22		15:17		-		Boring 116 0-2"		S/G		1		
Samplers Name:		Tom Hunter		Date:		12/2/22		Received for Name:		Date:		
Samplers Signature:		Thomas A. Hunter		Time:		1745		Laboratory Signature:		Time:		
Samples Relinquished By:		Samples Received By:		Sample Type Code Key:		Laboratory Remarks		Shipment Rec'd Intact?		<input type="checkbox"/> YES <input type="checkbox"/> NO		
Name: Tom Hunter		Date: 12/2/22		Name: Adam Schneider		Date: 12/2/22		Description		C Composite O QA/QC G Grab O Other		
Signature: Thomas A. Hunter		Time: 1745		Signature: [Signature]		Time: 1745		Matrix		DW Drinking Water S Soil GW Groundwater SL Sludge WW Wastewater WS Solid Waste SM Stormwater B Bulk O Oil WP Wipe L Liquid A Air		
Name: Eric Whaley		Date: 12/6/22		Name: Eric Whaley AAL		Date: 12/6/22						
Signature: [Signature]		Time: 1805		Signature: [Signature]		Time: 1200						

[Signature] 12/7/22 0020

ATTACHMENT B
SUMMARY OF LABORATORY RESULTS

Table B-1
Summary of Laboratory Analysis Results
Proposed Hydrogen Plant, Massena, New York
Soil Samples Collected December 2, 2022

Sample Identification	Boring 102 0-2"	Boring 105 0-2'	Boring 107 0-2'	Boring 110 0-2'	NYSDEC Unrestricted Use Soil Cleanup Objectives
Sample Date	12-02-2022	12-02-2022	12-02-2022	12-02-2022	
Sample Type	Grab	Grab	Grab	Grab	
Volatile Organic Compounds (ppm)					
All Target VOC	ND	NA	ND	NA	---
Semi-VOC (ppm)					
Fluoranthene	0.21	NA	ND	NA	100
Benzo(a)anthracene	0.1	NA	ND	NA	1
Benzo(a)pyrene	0.087	NA	ND	NA	1
Benzo(b)fluoranthene	0.11	NA	ND	NA	1
Benzo(k)fluoranthene	0.040	NA	ND	NA	0.8
Chrysene	0.092	NA	ND	NA	1
Benzo(ghi)perylene	0.050	NA	ND	NA	100
Phenanthrene	0.14	NA	ND	NA	100
Indeno(1,2,3-cd)prene	0.059	NA	ND	NA	0.5
Pyrene	0.16	NA	ND	NA	100
All Other Target Semi-VOC	ND	NA	ND	NA	---
Pesticides/ Herbicides (ppm)					
All Target Pesticides	ND	NA	ND	NA	---
All Target Herbicides	ND	NA	ND	NA	---
Polychlorinated Biphenyl (ppm)					
Total PCB	ND	NA	ND	NA	0.1
TAL Metals (ppm)					
Aluminum	7,460	7,930	8,560	12,600	10,000 ¹
Antimony	1.39	1.06	1.14	1.66	12 ¹
Arsenic	4.04	3.72	3.82	5.93	13
Barium	50.6	53.0	55.8	100	350
Beryllium	0.321	0.326	0.340	0.720	7.2
Cadmium	ND	0.114	0.172	ND	2.5
Calcium	6,580	4,540	5,320	9,350	10,000 ¹
Chromium	12.5	11.8	15.4	20.5	30
Cobalt	5.00	5.14	4.30	5.07	20 ¹
Copper	14.0	9.99	11.3	23.0	50
Iron	15,800	14,300	14,200	18,900	2,000 ¹
Lead	25.9	12.4	15.8	24.4	63
Magnesium	2,680	2,200	2,520	3,810	---
Manganese	244	453	352	110	1,600
Mercury	0.095	0.069	0.101	0.204	0.18
Nickel	9.84	9.33	11.3	14.7	30
Potassium	869	425	434	709	---
Selenium	ND	ND	ND	0.453	3.9
Silver	ND	ND	ND	ND	2
Sodium	53.6	44.3	45.4	47.8	---
Thallium	ND	ND	ND	ND	5 ¹
Vanadium	21.1	20.8	21.6	34.2	39 ¹
Zinc	51.6	47.4	41.6	54.7	109

NOTES:

Samples collected by representatives of Atlantic Testing Laboratories, Limited, and analyzed by Alpha Analytical of Westborough, Massachusetts (NYSDOH ELAP No. 11148).

All laboratory results and guidance values are expressed in parts per million (ppm), or mg/kg.

ND = Not detected above respective method detection limit

NA = Not Applicable (was not tested for this analytical method)

NYSDEC Soil Cleanup Objectives (SCO) were obtained from the NYSDEC Final Commissioner Policy, CP-51, dated October 21, 2010, and are representative of the 6 NYCRR Part 375 Unrestricted Use SCO.

¹ Compound is not listed in 6 NYCRR Part 375. Value provided is the most restrictive of Supplemental Soil Cleanup Objectives listed in CP-51.

Table B-1 (Continued)
Summary of Laboratory Analysis Results
Proposed Hydrogen Plant, Massena, New York
Soil Samples Collected December 2, 2022

Sample Identification	Boring 114 0-2'	Boring 115 0-2'	Boring 116 0-2'	NYSDEC Unrestricted Use Soil Cleanup Objectives
Sample Date	12-02-2022	12-02-2022	12-02-2022	
Sample Type	Grab	Grab	Grab	
TAL Metals (ppm)				
Aluminum	7,110	8,280	7,820	10,000 ¹
Antimony	1.15	1.25	1.04	12 ¹
Arsenic	6.96	4.08	3.14	13
Barium	81.2	44.4	44.7	350
Beryllium	0.409	0.312	0.307	7.2
Cadmium	ND	ND	0.146	2.5
Calcium	5,940	3,630	3,360	10,000 ¹
Chromium	9.97	9.81	10.2	30
Cobalt	6.02	4.39	3.75	20
Copper	12.6	9.90	8.02	50
Iron	17,200	14,500	12,400	2,000 ¹
Lead	22.3	15.3	10.5	63
Magnesium	2,360	1,680	1,720	---
Manganese	852	267	270	1,600
Mercury	0.099	ND	ND	0.18
Nickel	10.7	8.66	8.00	30
Potassium	393	342	391	---
Selenium	ND	ND	ND	3.9
Silver	ND	ND	ND	2
Sodium	30.6	35.0	36.3	---
Thallium	ND	ND	ND	5 ¹
Vanadium	23.2	22.0	18.9	39 ¹
Zinc	41.3	31.2	34.2	109

NOTES:

Samples collected by representatives of Atlantic Testing Laboratories, Limited, and analyzed by Alpha Analytical of Westborough, Massachusetts (NYSDOH ELAP No. 11148).

All laboratory results and guidance values are expressed in parts per million (ppm), or mg/kg.

ND = Not detected above respective method detection limit

NYSDEC Soil Cleanup Objectives (SCO) were obtained from the NYSDEC Final Commissioner Policy, CP-51, dated October 21, 2010, and are representative of the 6 NYCRR Part 375 Unrestricted Use SCO.

¹ Compound is not listed in 6 NYCRR Part 375. Value provided is the most restrictive of Supplemental Soil Cleanup Objectives listed in CP-51.