



ATLANTIC TESTING LABORATORIES

WBE certified company

Canton
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November 3, 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-01-11-22

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, dated September 1, 2022, soil sampling was performed at the subject site on October 18, 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 October 18, 2022, included the collection of 5 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 grab samples were identified as CD10427CE01, CD10427CE02, CD10427CE03, CD10427CE04, and CD10427CE05.

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 total 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), are provided in Table B-1 of Attachment B.

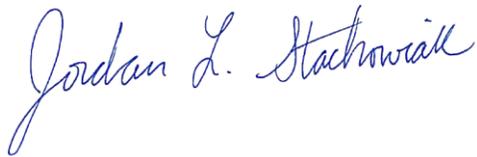
Summary of Findings

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 detectable concentrations of one target VOC, one target semi-VOC, and various metals. Aluminum, Iron, Selenium, and Vanadium 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

CJD/js

ATTACHMENT A
LABORATORY REPORT AND
ASSOCIATED SAMPLE CUSTODY DOCUMENTATION



ANALYTICAL REPORT

Lab Number:	L2258475
Client:	Atlantic Testing Laboratories, Limited 6431 US Highway 11 PO Box 29 Canton, NY 13617
ATTN:	Cheyenne Dashnaw
Phone:	(315) 386-4578
Project Name:	PROPOSED HYDROGEN PLANT
Project Number:	CD10427
Report Date:	10/26/22

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: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2258475-01	CD10427CE01	SOIL	MASSENA,NY	10/18/22 12:50	10/19/22
L2258475-02	CD10427CE02	SOIL	MASSENA,NY	10/18/22 13:30	10/19/22
L2258475-03	CD10427CE03	SOIL	MASSENA,NY	10/18/22 13:50	10/19/22
L2258475-04	CD10427CE04	SOIL	MASSENA,NY	10/18/22 14:30	10/19/22
L2258475-05	CD10427CE05	SOIL	MASSENA,NY	10/18/22 14:50	10/19/22

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

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: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

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

L2258475-01 through -05: 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.

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:  Tiffani Morrissey

Title: Technical Director/Representative

Date: 10/26/22

ORGANICS

VOLATILES

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 10/23/22 15:57
 Analyst: JIC
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.70	0.28	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
Client ID: CD10427CE01
Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
Date Received: 10/19/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.6	0.91	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
Client ID: CD10427CE01
Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
Date Received: 10/19/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
1,4-Dioxane	ND		ug/kg	110	49.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	94		70-130

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 10/23/22 16:18
 Analyst: JIC
 Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	ND		ug/kg	0.68	0.22	1
Toluene	0.88	J	ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.79	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.27	1
p/m-Xylene	ND		ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
Xylenes, Total	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.18	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
Client ID: CD10427CE02
Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
Date Received: 10/19/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.45	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.52	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.46	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 10/23/22 16:38
 Analyst: JIC
 Percent Solids: 49%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.5	4.3	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.27	1
Chloroform	ND		ug/kg	2.8	0.26	1
Carbon tetrachloride	ND		ug/kg	1.9	0.44	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.24	1
Dibromochloromethane	ND		ug/kg	1.9	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.51	1
Tetrachloroethene	ND		ug/kg	0.95	0.37	1
Chlorobenzene	ND		ug/kg	0.95	0.24	1
Trichlorofluoromethane	ND		ug/kg	7.6	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.49	1
1,1,1-Trichloroethane	ND		ug/kg	0.95	0.32	1
Bromodichloromethane	ND		ug/kg	0.95	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.52	1
cis-1,3-Dichloropropene	ND		ug/kg	0.95	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	0.95	0.30	1
1,1-Dichloropropene	ND		ug/kg	0.95	0.30	1
Bromoform	ND		ug/kg	7.6	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.95	0.31	1
Benzene	ND		ug/kg	0.95	0.31	1
Toluene	1.1	J	ug/kg	1.9	1.0	1
Ethylbenzene	ND		ug/kg	1.9	0.27	1
Chloromethane	ND		ug/kg	7.6	1.8	1
Bromomethane	ND		ug/kg	3.8	1.1	1
Vinyl chloride	ND		ug/kg	1.9	0.64	1
Chloroethane	ND		ug/kg	3.8	0.86	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.26	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
Client ID: CD10427CE03
Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
Date Received: 10/19/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.95	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.38	1
p/m-Xylene	ND		ug/kg	3.8	1.1	1
o-Xylene	ND		ug/kg	1.9	0.55	1
Xylenes, Total	ND		ug/kg	1.9	0.55	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	1.9	0.26	1
Dibromomethane	ND		ug/kg	3.8	0.45	1
Styrene	ND		ug/kg	1.9	0.37	1
Dichlorodifluoromethane	ND		ug/kg	19	1.7	1
Acetone	ND		ug/kg	19	9.1	1
Carbon disulfide	ND		ug/kg	19	8.6	1
2-Butanone	ND		ug/kg	19	4.2	1
Vinyl acetate	ND		ug/kg	19	4.1	1
4-Methyl-2-pentanone	ND		ug/kg	19	2.4	1
1,2,3-Trichloropropane	ND		ug/kg	3.8	0.24	1
2-Hexanone	ND		ug/kg	19	2.2	1
Bromochloromethane	ND		ug/kg	3.8	0.39	1
2,2-Dichloropropane	ND		ug/kg	3.8	0.38	1
1,2-Dibromoethane	ND		ug/kg	1.9	0.53	1
1,3-Dichloropropane	ND		ug/kg	3.8	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.95	0.25	1
Bromobenzene	ND		ug/kg	3.8	0.27	1
n-Butylbenzene	ND		ug/kg	1.9	0.32	1
sec-Butylbenzene	ND		ug/kg	1.9	0.28	1
tert-Butylbenzene	ND		ug/kg	3.8	0.22	1
o-Chlorotoluene	ND		ug/kg	3.8	0.36	1
p-Chlorotoluene	ND		ug/kg	3.8	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	1.9	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.32	1
Isopropylbenzene	ND		ug/kg	1.9	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.21	1
Naphthalene	ND		ug/kg	7.6	1.2	1
Acrylonitrile	ND		ug/kg	7.6	2.2	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.9	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.61	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.52	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.8	0.36	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.8	0.63	1
1,4-Dioxane	ND		ug/kg	150	66.	1
p-Diethylbenzene	ND		ug/kg	3.8	0.34	1
p-Ethyltoluene	ND		ug/kg	3.8	0.73	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.36	1
Ethyl ether	ND		ug/kg	3.8	0.65	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.5	2.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 10/23/22 16:59
 Analyst: JIC
 Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	4.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.29	1
Chloroform	ND		ug/kg	3.0	0.28	1
Carbon tetrachloride	ND		ug/kg	2.0	0.46	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.25	1
Dibromochloromethane	ND		ug/kg	2.0	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.53	1
Tetrachloroethene	ND		ug/kg	0.99	0.39	1
Chlorobenzene	ND		ug/kg	0.99	0.25	1
Trichlorofluoromethane	ND		ug/kg	7.9	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.51	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.33	1
Bromodichloromethane	ND		ug/kg	0.99	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.54	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.31	1
1,1-Dichloropropene	ND		ug/kg	0.99	0.31	1
Bromoform	ND		ug/kg	7.9	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.33	1
Benzene	ND		ug/kg	0.99	0.33	1
Toluene	1.1	J	ug/kg	2.0	1.1	1
Ethylbenzene	ND		ug/kg	2.0	0.28	1
Chloromethane	ND		ug/kg	7.9	1.8	1
Bromomethane	ND		ug/kg	4.0	1.2	1
Vinyl chloride	ND		ug/kg	2.0	0.66	1
Chloroethane	ND		ug/kg	4.0	0.90	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	0.27	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.99	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.34	1
Methyl tert butyl ether	ND		ug/kg	4.0	0.40	1
p/m-Xylene	ND		ug/kg	4.0	1.1	1
o-Xylene	ND		ug/kg	2.0	0.58	1
Xylenes, Total	ND		ug/kg	2.0	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	2.0	0.27	1
Dibromomethane	ND		ug/kg	4.0	0.47	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	ND		ug/kg	20	9.5	1
Carbon disulfide	ND		ug/kg	20	9.0	1
2-Butanone	ND		ug/kg	20	4.4	1
Vinyl acetate	ND		ug/kg	20	4.2	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.5	1
1,2,3-Trichloropropane	ND		ug/kg	4.0	0.25	1
2-Hexanone	ND		ug/kg	20	2.3	1
Bromochloromethane	ND		ug/kg	4.0	0.40	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.40	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.55	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.33	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.26	1
Bromobenzene	ND		ug/kg	4.0	0.29	1
n-Butylbenzene	ND		ug/kg	2.0	0.33	1
sec-Butylbenzene	ND		ug/kg	2.0	0.29	1
tert-Butylbenzene	ND		ug/kg	4.0	0.23	1
o-Chlorotoluene	ND		ug/kg	4.0	0.38	1
p-Chlorotoluene	ND		ug/kg	4.0	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	2.0	1
Hexachlorobutadiene	ND		ug/kg	7.9	0.33	1
Isopropylbenzene	ND		ug/kg	2.0	0.22	1
p-Isopropyltoluene	ND		ug/kg	2.0	0.22	1
Naphthalene	ND		ug/kg	7.9	1.3	1
Acrylonitrile	ND		ug/kg	7.9	2.3	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.0	0.34	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.64	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.54	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.38	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.66	1
1,4-Dioxane	ND		ug/kg	160	70.	1
p-Diethylbenzene	ND		ug/kg	4.0	0.35	1
p-Ethyltoluene	ND		ug/kg	4.0	0.76	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.38	1
Ethyl ether	ND		ug/kg	4.0	0.68	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.9	2.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	94		70-130

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260D
 Analytical Date: 10/23/22 17:20
 Analyst: JIC
 Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.9	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.69	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.8	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.8	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.3	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.69	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.26	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.90	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.46	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.24	1
p-Ethyltoluene	ND		ug/kg	2.8	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.26	1
Ethyl ether	ND		ug/kg	2.8	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260D
Analytical Date: 10/23/22 14:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1703421-5					
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
1,1-Dichloropropene	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

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/23/22 14:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1703421-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
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
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/23/22 14:12
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1703421-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
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
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Project Number: CD10427

Lab Number: L2258475

Report Date: 10/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1703421-3 WG1703421-4								
Methylene chloride	93		92		70-130	1		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	101		100		70-130	1		30
Carbon tetrachloride	104		107		70-130	3		30
1,2-Dichloropropane	87		87		70-130	0		30
Dibromochloromethane	98		102		70-130	4		30
1,1,2-Trichloroethane	91		95		70-130	4		30
Tetrachloroethene	110		112		70-130	2		30
Chlorobenzene	100		102		70-130	2		30
Trichlorofluoromethane	110		110		70-139	0		30
1,2-Dichloroethane	100		103		70-130	3		30
1,1,1-Trichloroethane	107		108		70-130	1		30
Bromodichloromethane	95		96		70-130	1		30
trans-1,3-Dichloropropene	96		100		70-130	4		30
cis-1,3-Dichloropropene	99		99		70-130	0		30
1,1-Dichloropropene	101		105		70-130	4		30
Bromoform	92		94		70-130	2		30
1,1,2,2-Tetrachloroethane	82		82		70-130	0		30
Benzene	96		97		70-130	1		30
Toluene	95		97		70-130	2		30
Ethylbenzene	98		101		70-130	3		30
Chloromethane	69		68		52-130	1		30
Bromomethane	130		120		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Lab Number: L2258475

Project Number: CD10427

Report Date: 10/26/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1703421-3 WG1703421-4								
Vinyl chloride	86		85		67-130	1		30
Chloroethane	87		87		50-151	0		30
1,1-Dichloroethene	103		103		65-135	0		30
trans-1,2-Dichloroethene	94		92		70-130	2		30
Trichloroethene	100		101		70-130	1		30
1,2-Dichlorobenzene	99		100		70-130	1		30
1,3-Dichlorobenzene	98		99		70-130	1		30
1,4-Dichlorobenzene	98		99		70-130	1		30
Methyl tert butyl ether	98		97		66-130	1		30
p/m-Xylene	103		106		70-130	3		30
o-Xylene	102		105		70-130	3		30
cis-1,2-Dichloroethene	94		94		70-130	0		30
Dibromomethane	99		98		70-130	1		30
Styrene	101		104		70-130	3		30
Dichlorodifluoromethane	90		91		30-146	1		30
Acetone	87		87		54-140	0		30
Carbon disulfide	97		96		59-130	1		30
2-Butanone	74		72		70-130	3		30
Vinyl acetate	73		70		70-130	4		30
4-Methyl-2-pentanone	77		79		70-130	3		30
1,2,3-Trichloropropane	93		92		68-130	1		30
2-Hexanone	73		74		70-130	1		30
Bromochloromethane	98		100		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Lab Number: L2258475

Project Number: CD10427

Report Date: 10/26/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1703421-3 WG1703421-4								
2,2-Dichloropropane	98		98		70-130	0		30
1,2-Dibromoethane	99		101		70-130	2		30
1,3-Dichloropropane	97		100		69-130	3		30
1,1,1,2-Tetrachloroethane	104		106		70-130	2		30
Bromobenzene	97		98		70-130	1		30
n-Butylbenzene	98		100		70-130	2		30
sec-Butylbenzene	96		98		70-130	2		30
tert-Butylbenzene	96		97		70-130	1		30
o-Chlorotoluene	110		111		70-130	1		30
p-Chlorotoluene	96		97		70-130	1		30
1,2-Dibromo-3-chloropropane	82		87		68-130	6		30
Hexachlorobutadiene	108		110		67-130	2		30
Isopropylbenzene	95		96		70-130	1		30
p-Isopropyltoluene	97		98		70-130	1		30
Naphthalene	91		92		70-130	1		30
Acrylonitrile	70		73		70-130	4		30
n-Propylbenzene	97		98		70-130	1		30
1,2,3-Trichlorobenzene	104		105		70-130	1		30
1,2,4-Trichlorobenzene	104		104		70-130	0		30
1,3,5-Trimethylbenzene	97		99		70-130	2		30
1,2,4-Trimethylbenzene	97		98		70-130	1		30
1,4-Dioxane	91		90		65-136	1		30
p-Diethylbenzene	96		96		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Project Number: CD10427

Lab Number: L2258475

Report Date: 10/26/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1703421-3 WG1703421-4								
p-Ethyltoluene	98		99		70-130	1		30
1,2,4,5-Tetramethylbenzene	98		99		70-130	1		30
Ethyl ether	98		97		67-130	1		30
trans-1,4-Dichloro-2-butene	79		79		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	104		103		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 10/24/22 15:20
 Analyst: MG
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	240	27.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	32.	1
1,2-Dichlorobenzene	ND		ug/kg	240	43.	1
1,3-Dichlorobenzene	ND		ug/kg	240	41.	1
1,4-Dichlorobenzene	ND		ug/kg	240	42.	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	63.	1
2,4-Dinitrotoluene	ND		ug/kg	240	48.	1
2,6-Dinitrotoluene	ND		ug/kg	240	41.	1
Azobenzene	ND		ug/kg	240	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	36.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	41.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	24.	1
Isophorone	ND		ug/kg	210	31.	1
Nitrobenzene	ND		ug/kg	210	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	240	82.	1
Butyl benzyl phthalate	ND		ug/kg	240	60.	1
Di-n-butylphthalate	ND		ug/kg	240	45.	1
Di-n-octylphthalate	ND		ug/kg	240	81.	1
Diethyl phthalate	ND		ug/kg	240	22.	1
Dimethyl phthalate	ND		ug/kg	240	50.	1
Aniline	ND		ug/kg	280	110	1
4-Chloroaniline	ND		ug/kg	240	43.	1
Dibenzofuran	ND		ug/kg	240	22.	1
Acetophenone	ND		ug/kg	240	29.	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	51		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	35		18-120

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 10/24/22 00:04
 Analyst: WR
 Percent Solids: 70%

Extraction Method: EPA 3546
 Extraction Date: 10/23/22 09:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	230	27.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	32.	1
1,2-Dichlorobenzene	ND		ug/kg	230	42.	1
1,3-Dichlorobenzene	ND		ug/kg	230	40.	1
1,4-Dichlorobenzene	ND		ug/kg	230	41.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	62.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	40.	1
Azobenzene	ND		ug/kg	230	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	36.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	40.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Isophorone	ND		ug/kg	210	30.	1
Nitrobenzene	ND		ug/kg	210	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	80.	1
Butyl benzyl phthalate	ND		ug/kg	230	59.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	79.	1
Diethyl phthalate	ND		ug/kg	230	22.	1
Dimethyl phthalate	ND		ug/kg	230	49.	1
Aniline	ND		ug/kg	280	110	1
4-Chloroaniline	ND		ug/kg	230	42.	1
Dibenzofuran	ND		ug/kg	230	22.	1
Acetophenone	ND		ug/kg	230	29.	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	44		23-120
2-Fluorobiphenyl	48		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	42		18-120

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 10/24/22 15:43
 Analyst: MG
 Percent Solids: 49%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	340	39.	1
Bis(2-chloroethyl)ether	ND		ug/kg	300	46.	1
1,2-Dichlorobenzene	ND		ug/kg	340	61.	1
1,3-Dichlorobenzene	ND		ug/kg	340	58.	1
1,4-Dichlorobenzene	ND		ug/kg	340	59.	1
3,3'-Dichlorobenzidine	ND		ug/kg	340	90.	1
2,4-Dinitrotoluene	ND		ug/kg	340	68.	1
2,6-Dinitrotoluene	ND		ug/kg	340	58.	1
Azobenzene	ND		ug/kg	340	32.	1
4-Bromophenyl phenyl ether	ND		ug/kg	340	52.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	400	58.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	360	34.	1
Isophorone	ND		ug/kg	300	44.	1
Nitrobenzene	ND		ug/kg	300	50.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	340	120	1
Butyl benzyl phthalate	ND		ug/kg	340	85.	1
Di-n-butylphthalate	ND		ug/kg	340	64.	1
Di-n-octylphthalate	ND		ug/kg	340	110	1
Diethyl phthalate	ND		ug/kg	340	31.	1
Dimethyl phthalate	ND		ug/kg	340	71.	1
Aniline	ND		ug/kg	400	160	1
4-Chloroaniline	ND		ug/kg	340	62.	1
Dibenzofuran	ND		ug/kg	340	32.	1
Acetophenone	ND		ug/kg	340	42.	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	39		18-120

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 10/24/22 16:06
 Analyst: MG
 Percent Solids: 50%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	340	38.	1
Bis(2-chloroethyl)ether	ND		ug/kg	300	45.	1
1,2-Dichlorobenzene	ND		ug/kg	340	60.	1
1,3-Dichlorobenzene	ND		ug/kg	340	58.	1
1,4-Dichlorobenzene	ND		ug/kg	340	58.	1
3,3'-Dichlorobenzidine	ND		ug/kg	340	89.	1
2,4-Dinitrotoluene	ND		ug/kg	340	67.	1
2,6-Dinitrotoluene	ND		ug/kg	340	58.	1
Azobenzene	ND		ug/kg	340	32.	1
4-Bromophenyl phenyl ether	ND		ug/kg	340	51.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	400	57.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	360	34.	1
Isophorone	ND		ug/kg	300	44.	1
Nitrobenzene	ND		ug/kg	300	50.	1
Bis(2-ethylhexyl)phthalate	140	J	ug/kg	340	120	1
Butyl benzyl phthalate	ND		ug/kg	340	84.	1
Di-n-butylphthalate	ND		ug/kg	340	64.	1
Di-n-octylphthalate	ND		ug/kg	340	110	1
Diethyl phthalate	ND		ug/kg	340	31.	1
Dimethyl phthalate	ND		ug/kg	340	70.	1
Aniline	ND		ug/kg	400	160	1
4-Chloroaniline	ND		ug/kg	340	61.	1
Dibenzofuran	ND		ug/kg	340	32.	1
Acetophenone	ND		ug/kg	340	42.	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	51		18-120

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270E
 Analytical Date: 10/24/22 16:30
 Analyst: MG
 Percent Solids: 71%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	210	31.	1
1,2-Dichlorobenzene	ND		ug/kg	230	42.	1
1,3-Dichlorobenzene	ND		ug/kg	230	40.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	62.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	40.	1
Azobenzene	ND		ug/kg	230	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	280	40.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Isophorone	ND		ug/kg	210	30.	1
Nitrobenzene	ND		ug/kg	210	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	80.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	44.	1
Di-n-octylphthalate	ND		ug/kg	230	79.	1
Diethyl phthalate	ND		ug/kg	230	22.	1
Dimethyl phthalate	ND		ug/kg	230	49.	1
Aniline	ND		ug/kg	280	110	1
4-Chloroaniline	ND		ug/kg	230	42.	1
Dibenzofuran	ND		ug/kg	230	22.	1
Acetophenone	ND		ug/kg	230	29.	1

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	48		18-120

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270E
Analytical Date: 10/24/22 09:52
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 10/22/22 22:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatiles Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1702907-1					
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
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	17.
Isophorone	ND		ug/kg	150	22.
Nitrobenzene	ND		ug/kg	150	24.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Aniline	ND		ug/kg	200	78.
4-Chloroaniline	ND		ug/kg	160	30.
Dibenzofuran	ND		ug/kg	160	16.
Acetophenone	ND		ug/kg	160	20.

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/24/22 09:52
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 10/22/22 22:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1702907-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Lab Number: L2258475

Project Number: CD10427

Report Date: 10/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1702907-2 WG1702907-3								
1,2,4-Trichlorobenzene	72		66		38-107	9		50
Bis(2-chloroethyl)ether	84		76		40-140	10		50
1,2-Dichlorobenzene	74		67		40-140	10		50
1,3-Dichlorobenzene	73		66		40-140	10		50
1,4-Dichlorobenzene	73		67		28-104	9		50
3,3'-Dichlorobenzidine	75		79		40-140	5		50
2,4-Dinitrotoluene	83		79		40-132	5		50
2,6-Dinitrotoluene	75		71		40-140	5		50
Azobenzene	97		91		40-140	6		50
4-Bromophenyl phenyl ether	70		66		40-140	6		50
Bis(2-chloroisopropyl)ether	100		90		40-140	11		50
Bis(2-chloroethoxy)methane	85		78		40-117	9		50
Isophorone	84		78		40-140	7		50
Nitrobenzene	86		78		40-140	10		50
Bis(2-ethylhexyl)phthalate	91		85		40-140	7		50
Butyl benzyl phthalate	90		82		40-140	9		50
Di-n-butylphthalate	93		84		40-140	10		50
Di-n-octylphthalate	89		82		40-140	8		50
Diethyl phthalate	83		79		40-140	5		50
Dimethyl phthalate	74		70		40-140	6		50
Aniline	71		69		40-140	3		50
4-Chloroaniline	89		88		40-140	1		50
Dibenzofuran	82		76		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Project Number: CD10427

Lab Number: L2258475

Report Date: 10/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1702907-2 WG1702907-3								
Acetophenone	78		71		14-144	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		78		25-120
Phenol-d6	85		80		10-120
Nitrobenzene-d5	82		77		23-120
2-Fluorobiphenyl	68		64		30-120
2,4,6-Tribromophenol	59		56		10-136
4-Terphenyl-d14	70		66		18-120

PCBS

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 10/24/22 11:03
 Analyst: JM
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:56
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0470	0.00418	1	A
Aroclor 1221	ND		mg/kg	0.0470	0.00471	1	A
Aroclor 1232	ND		mg/kg	0.0470	0.00997	1	A
Aroclor 1242	ND		mg/kg	0.0470	0.00634	1	A
Aroclor 1248	ND		mg/kg	0.0470	0.00705	1	A
Aroclor 1254	ND		mg/kg	0.0470	0.00514	1	A
Aroclor 1260	ND		mg/kg	0.0470	0.00869	1	A
Aroclor 1262	ND		mg/kg	0.0470	0.00597	1	A
Aroclor 1268	ND		mg/kg	0.0470	0.00487	1	A
PCBs, Total	ND		mg/kg	0.0470	0.00418	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 10/24/22 11:11
 Analyst: JM
 Percent Solids: 70%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:56
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0452	0.00402	1	A
Aroclor 1221	ND		mg/kg	0.0452	0.00453	1	A
Aroclor 1232	ND		mg/kg	0.0452	0.00959	1	A
Aroclor 1242	ND		mg/kg	0.0452	0.00610	1	A
Aroclor 1248	ND		mg/kg	0.0452	0.00679	1	A
Aroclor 1254	ND		mg/kg	0.0452	0.00495	1	A
Aroclor 1260	ND		mg/kg	0.0452	0.00836	1	A
Aroclor 1262	ND		mg/kg	0.0452	0.00575	1	A
Aroclor 1268	ND		mg/kg	0.0452	0.00469	1	A
PCBs, Total	ND		mg/kg	0.0452	0.00402	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 10/24/22 11:19
 Analyst: JM
 Percent Solids: 49%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:56
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0671	0.00596	1	A
Aroclor 1221	ND		mg/kg	0.0671	0.00672	1	A
Aroclor 1232	ND		mg/kg	0.0671	0.0142	1	A
Aroclor 1242	ND		mg/kg	0.0671	0.00904	1	A
Aroclor 1248	ND		mg/kg	0.0671	0.0101	1	A
Aroclor 1254	ND		mg/kg	0.0671	0.00734	1	A
Aroclor 1260	ND		mg/kg	0.0671	0.0124	1	A
Aroclor 1262	ND		mg/kg	0.0671	0.00852	1	A
Aroclor 1268	ND		mg/kg	0.0671	0.00695	1	A
PCBs, Total	ND		mg/kg	0.0671	0.00596	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 10/24/22 11:27
 Analyst: JM
 Percent Solids: 50%

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 23:56
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0642	0.00570	1	A
Aroclor 1221	ND		mg/kg	0.0642	0.00643	1	A
Aroclor 1232	ND		mg/kg	0.0642	0.0136	1	A
Aroclor 1242	ND		mg/kg	0.0642	0.00865	1	A
Aroclor 1248	ND		mg/kg	0.0642	0.00962	1	A
Aroclor 1254	ND		mg/kg	0.0642	0.00702	1	A
Aroclor 1260	ND		mg/kg	0.0642	0.0118	1	A
Aroclor 1262	ND		mg/kg	0.0642	0.00815	1	A
Aroclor 1268	ND		mg/kg	0.0642	0.00665	1	A
PCBs, Total	ND		mg/kg	0.0642	0.00570	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
Client ID: CD10427CE05
Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
Date Received: 10/19/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/24/22 11:35
Analyst: JM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 10/22/22 23:56
Cleanup Method: EPA 3665A
Cleanup Date: 10/23/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0448	0.00397	1	A
Aroclor 1221	ND		mg/kg	0.0448	0.00448	1	A
Aroclor 1232	ND		mg/kg	0.0448	0.00949	1	A
Aroclor 1242	ND		mg/kg	0.0448	0.00603	1	A
Aroclor 1248	ND		mg/kg	0.0448	0.00671	1	A
Aroclor 1254	ND		mg/kg	0.0448	0.00490	1	A
Aroclor 1260	ND		mg/kg	0.0448	0.00827	1	A
Aroclor 1262	ND		mg/kg	0.0448	0.00568	1	A
Aroclor 1268	ND		mg/kg	0.0448	0.00464	1	A
PCBs, Total	ND		mg/kg	0.0448	0.00397	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 10/24/22 09:17
 Analyst: JM

Extraction Method: EPA 3546
 Extraction Date: 10/22/22 21:32
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1703691-1						
Aroclor 1016	ND		mg/kg	0.0315	0.00280	A
Aroclor 1221	ND		mg/kg	0.0315	0.00316	A
Aroclor 1232	ND		mg/kg	0.0315	0.00669	A
Aroclor 1242	ND		mg/kg	0.0315	0.00425	A
Aroclor 1248	ND		mg/kg	0.0315	0.00473	A
Aroclor 1254	ND		mg/kg	0.0315	0.00345	A
Aroclor 1260	ND		mg/kg	0.0315	0.00583	A
Aroclor 1262	ND		mg/kg	0.0315	0.00401	A
Aroclor 1268	ND		mg/kg	0.0315	0.00327	A
PCBs, Total	ND		mg/kg	0.0315	0.00280	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	108		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1703691-2 WG1703691-3									
Aroclor 1016	107		118		40-140	10		50	A
Aroclor 1260	99		109		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		110		30-150	A
Decachlorobiphenyl	100		111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		114		30-150	B
Decachlorobiphenyl	109		119		30-150	B

PESTICIDES

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 10/23/22 17:16
 Analyst: AAR
 Percent Solids: 68%

Extraction Method: EPA 3546
 Extraction Date: 10/23/22 00:04
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.21	0.433	1	A
Lindane	ND		ug/kg	0.921	0.412	1	A
Alpha-BHC	ND		ug/kg	0.921	0.262	1	A
Beta-BHC	ND		ug/kg	2.21	0.838	1	A
Heptachlor	ND		ug/kg	1.10	0.495	1	A
Aldrin	ND		ug/kg	2.21	0.778	1	A
Heptachlor epoxide	ND		ug/kg	4.14	1.24	1	A
Endrin	ND		ug/kg	0.921	0.378	1	A
Endrin aldehyde	ND		ug/kg	2.76	0.967	1	A
Endrin ketone	ND		ug/kg	2.21	0.569	1	A
Dieldrin	ND		ug/kg	1.38	0.691	1	A
4,4'-DDE	ND		ug/kg	2.21	0.511	1	A
4,4'-DDD	ND		ug/kg	2.21	0.788	1	A
4,4'-DDT	ND		ug/kg	2.21	1.78	1	A
Endosulfan I	ND		ug/kg	2.21	0.522	1	A
Endosulfan II	ND		ug/kg	2.21	0.738	1	A
Endosulfan sulfate	ND		ug/kg	0.921	0.438	1	A
Methoxychlor	ND		ug/kg	4.14	1.29	1	A
Toxaphene	ND		ug/kg	41.4	11.6	1	A
cis-Chlordane	ND		ug/kg	2.76	0.770	1	A
trans-Chlordane	ND		ug/kg	2.76	0.729	1	A
Chlordane	ND		ug/kg	18.4	7.32	1	A

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 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	92		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 10/22/22 20:09
 Analyst: AKM
 Percent Solids: 68%
 Methylation Date: 10/22/22 11:25

Extraction Method: EPA 8151A
 Extraction Date: 10/20/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4830	1520	1	A
MCPA	ND		ug/kg	4830	1370	1	A
Dalapon	ND		ug/kg	48.3	15.8	1	A
Dicamba	ND		ug/kg	48.3	8.12	1	A
Dichloroprop	ND		ug/kg	48.3	13.9	1	A
2,4-D	ND		ug/kg	242	15.2	1	A
2,4-DB	ND		ug/kg	242	12.4	1	A
2,4,5-T	ND		ug/kg	242	7.49	1	A
2,4,5-TP (Silvex)	ND		ug/kg	242	6.43	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	110		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 10/23/22 17:29
 Analyst: AAR
 Percent Solids: 70%

Extraction Method: EPA 3546
 Extraction Date: 10/23/22 00:04
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.17	0.424	1	A
Lindane	ND		ug/kg	0.902	0.403	1	A
Alpha-BHC	ND		ug/kg	0.902	0.256	1	A
Beta-BHC	ND		ug/kg	2.17	0.821	1	A
Heptachlor	ND		ug/kg	1.08	0.486	1	A
Aldrin	ND		ug/kg	2.17	0.763	1	A
Heptachlor epoxide	ND		ug/kg	4.06	1.22	1	A
Endrin	ND		ug/kg	0.902	0.370	1	A
Endrin aldehyde	ND		ug/kg	2.71	0.948	1	A
Endrin ketone	ND		ug/kg	2.17	0.558	1	A
Dieldrin	ND		ug/kg	1.35	0.677	1	A
4,4'-DDE	ND		ug/kg	2.17	0.501	1	A
4,4'-DDD	ND		ug/kg	2.17	0.773	1	A
4,4'-DDT	ND		ug/kg	2.17	1.74	1	A
Endosulfan I	ND		ug/kg	2.17	0.512	1	A
Endosulfan II	ND		ug/kg	2.17	0.724	1	A
Endosulfan sulfate	ND		ug/kg	0.902	0.430	1	A
Methoxychlor	ND		ug/kg	4.06	1.26	1	A
Toxaphene	ND		ug/kg	40.6	11.4	1	A
cis-Chlordane	ND		ug/kg	2.71	0.754	1	A
trans-Chlordane	ND		ug/kg	2.71	0.715	1	A
Chlordane	ND		ug/kg	18.0	7.18	1	A

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 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	94		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 10/22/22 20:27
 Analyst: AKM
 Percent Solids: 70%
 Methylation Date: 10/22/22 11:25

Extraction Method: EPA 8151A
 Extraction Date: 10/20/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4700	1480	1	A
MCPA	ND		ug/kg	4700	1330	1	A
Dalapon	ND		ug/kg	47.0	15.4	1	A
Dicamba	ND		ug/kg	47.0	7.90	1	A
Dichloroprop	ND		ug/kg	47.0	13.5	1	A
2,4-D	ND		ug/kg	235	14.8	1	A
2,4-DB	ND		ug/kg	235	12.1	1	A
2,4,5-T	ND		ug/kg	235	7.29	1	A
2,4,5-TP (Silvex)	ND		ug/kg	235	6.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	128		30-150	A
DCAA	128		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
Client ID: CD10427CE03
Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
Date Received: 10/19/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/23/22 17:42
Analyst: AAR
Percent Solids: 49%

Extraction Method: EPA 3546
Extraction Date: 10/23/22 00:04
Cleanup Method: EPA 3620B
Cleanup Date: 10/23/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	3.18	0.622	1	A
Lindane	ND		ug/kg	1.32	0.591	1	A
Alpha-BHC	ND		ug/kg	1.32	0.376	1	A
Beta-BHC	ND		ug/kg	3.18	1.20	1	A
Heptachlor	ND		ug/kg	1.59	0.712	1	A
Aldrin	ND		ug/kg	3.18	1.12	1	A
Heptachlor epoxide	ND		ug/kg	5.95	1.79	1	A
Endrin	ND		ug/kg	1.32	0.542	1	A
Endrin aldehyde	ND		ug/kg	3.97	1.39	1	A
Endrin ketone	ND		ug/kg	3.18	0.818	1	A
Dieldrin	ND		ug/kg	1.98	0.992	1	A
4,4'-DDE	ND		ug/kg	3.18	0.734	1	A
4,4'-DDD	ND		ug/kg	3.18	1.13	1	A
4,4'-DDT	ND		ug/kg	3.18	2.55	1	A
Endosulfan I	ND		ug/kg	3.18	0.750	1	A
Endosulfan II	ND		ug/kg	3.18	1.06	1	A
Endosulfan sulfate	ND		ug/kg	1.32	0.630	1	A
Methoxychlor	ND		ug/kg	5.95	1.85	1	A
Toxaphene	ND		ug/kg	59.5	16.7	1	A
cis-Chlordane	ND		ug/kg	3.97	1.11	1	A
trans-Chlordane	ND		ug/kg	3.97	1.05	1	A
Chlordane	ND		ug/kg	26.5	10.5	1	A

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 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	75		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 10/22/22 20:45
 Analyst: AKM
 Percent Solids: 49%
 Methylation Date: 10/22/22 11:25

Extraction Method: EPA 8151A
 Extraction Date: 10/20/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	6670	2100	1	A
MCPA	ND		ug/kg	6670	1890	1	A
Dalapon	ND		ug/kg	66.7	21.8	1	A
Dicamba	ND		ug/kg	66.7	11.2	1	A
Dichloroprop	ND		ug/kg	66.7	19.1	1	A
2,4-D	ND		ug/kg	333	21.0	1	A
2,4-DB	ND		ug/kg	333	17.1	1	A
2,4,5-T	ND		ug/kg	333	10.3	1	A
2,4,5-TP (Silvex)	ND		ug/kg	333	8.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	143		30-150	A
DCAA	118		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 10/23/22 17:54
 Analyst: AAR
 Percent Solids: 50%

Extraction Method: EPA 3546
 Extraction Date: 10/23/22 00:04
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	3.13	0.613	1	A
Lindane	ND		ug/kg	1.30	0.583	1	A
Alpha-BHC	ND		ug/kg	1.30	0.370	1	A
Beta-BHC	ND		ug/kg	3.13	1.19	1	A
Heptachlor	ND		ug/kg	1.56	0.702	1	A
Aldrin	ND		ug/kg	3.13	1.10	1	A
Heptachlor epoxide	ND		ug/kg	5.87	1.76	1	A
Endrin	ND		ug/kg	1.30	0.535	1	A
Endrin aldehyde	ND		ug/kg	3.91	1.37	1	A
Endrin ketone	ND		ug/kg	3.13	0.806	1	A
Dieldrin	ND		ug/kg	1.96	0.978	1	A
4,4'-DDE	ND		ug/kg	3.13	0.724	1	A
4,4'-DDD	ND		ug/kg	3.13	1.12	1	A
4,4'-DDT	ND		ug/kg	3.13	2.52	1	A
Endosulfan I	ND		ug/kg	3.13	0.739	1	A
Endosulfan II	ND		ug/kg	3.13	1.04	1	A
Endosulfan sulfate	ND		ug/kg	1.30	0.621	1	A
Methoxychlor	ND		ug/kg	5.87	1.82	1	A
Toxaphene	ND		ug/kg	58.7	16.4	1	A
cis-Chlordane	ND		ug/kg	3.91	1.09	1	A
trans-Chlordane	ND		ug/kg	3.91	1.03	1	A
Chlordane	ND		ug/kg	26.1	10.4	1	A

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 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	83		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 10/22/22 21:03
 Analyst: AKM
 Percent Solids: 50%
 Methylation Date: 10/22/22 11:25

Extraction Method: EPA 8151A
 Extraction Date: 10/20/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	6690	2110	1	A
MCPA	ND		ug/kg	6690	1890	1	A
Dalapon	ND		ug/kg	66.9	21.9	1	A
Dicamba	ND		ug/kg	66.9	11.2	1	A
Dichloroprop	ND		ug/kg	66.9	19.2	1	A
2,4-D	ND		ug/kg	334	21.1	1	A
2,4-DB	ND		ug/kg	334	17.2	1	A
2,4,5-T	ND		ug/kg	334	10.4	1	A
2,4,5-TP (Silvex)	ND		ug/kg	334	8.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	140		30-150	A
DCAA	178	Q	30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 10/23/22 18:07
 Analyst: AAR
 Percent Solids: 71%

Extraction Method: EPA 3546
 Extraction Date: 10/23/22 00:04
 Cleanup Method: EPA 3620B
 Cleanup Date: 10/23/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.16	0.424	1	A
Lindane	ND		ug/kg	0.901	0.403	1	A
Alpha-BHC	ND		ug/kg	0.901	0.256	1	A
Beta-BHC	ND		ug/kg	2.16	0.820	1	A
Heptachlor	ND		ug/kg	1.08	0.485	1	A
Aldrin	ND		ug/kg	2.16	0.762	1	A
Heptachlor epoxide	ND		ug/kg	4.06	1.22	1	A
Endrin	ND		ug/kg	0.901	0.370	1	A
Endrin aldehyde	ND		ug/kg	2.70	0.946	1	A
Endrin ketone	ND		ug/kg	2.16	0.557	1	A
Dieldrin	ND		ug/kg	1.35	0.676	1	A
4,4'-DDE	ND		ug/kg	2.16	0.500	1	A
4,4'-DDD	ND		ug/kg	2.16	0.772	1	A
4,4'-DDT	ND		ug/kg	2.16	1.74	1	A
Endosulfan I	ND		ug/kg	2.16	0.511	1	A
Endosulfan II	ND		ug/kg	2.16	0.723	1	A
Endosulfan sulfate	ND		ug/kg	0.901	0.429	1	A
Methoxychlor	ND		ug/kg	4.06	1.26	1	A
Toxaphene	ND		ug/kg	40.6	11.4	1	A
cis-Chlordane	ND		ug/kg	2.70	0.754	1	A
trans-Chlordane	ND		ug/kg	2.70	0.714	1	A
Chlordane	ND		ug/kg	18.0	7.17	1	A

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 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	84		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 10/22/22 21:21
 Analyst: AKM
 Percent Solids: 71%
 Methylation Date: 10/22/22 11:25

Extraction Method: EPA 8151A
 Extraction Date: 10/20/22 15:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4600	1450	1	A
MCPA	ND		ug/kg	4600	1300	1	A
Dalapon	ND		ug/kg	46.0	15.0	1	A
Dicamba	ND		ug/kg	46.0	7.73	1	A
Dichloroprop	ND		ug/kg	46.0	13.2	1	A
2,4-D	ND		ug/kg	230	14.5	1	A
2,4-DB	ND		ug/kg	230	11.8	1	A
2,4,5-T	ND		ug/kg	230	7.13	1	A
2,4,5-TP (Silvex)	ND		ug/kg	230	6.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	136		30-150	A
DCAA	112		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/21/22 08:06
Analyst: AAR

Methylation Date: 10/21/22 06:06

Extraction Method: EPA 8151A
Extraction Date: 10/19/22 20:55

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1701709-1						
MCPP	ND		ug/kg	3240	1020	A
MCPA	ND		ug/kg	3240	917.	A
Dalapon	ND		ug/kg	32.4	10.6	A
Dicamba	ND		ug/kg	32.4	5.44	A
Dichloroprop	ND		ug/kg	32.4	9.30	A
2,4-D	ND		ug/kg	162	10.2	A
2,4-DB	ND		ug/kg	162	8.33	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	120		30-150	A
DCAA	72		30-150	B

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/23/22 16:39
Analyst: AAR

Extraction Method: EPA 3546
Extraction Date: 10/23/22 00:04
Cleanup Method: EPA 3620B
Cleanup Date: 10/23/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1702917-1						
Delta-BHC	ND		ug/kg	1.54	0.303	A
Lindane	ND		ug/kg	0.644	0.288	A
Alpha-BHC	ND		ug/kg	0.644	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.586	A
Heptachlor	ND		ug/kg	0.773	0.346	A
Aldrin	ND		ug/kg	1.54	0.544	A
Heptachlor epoxide	ND		ug/kg	2.90	0.869	A
Endrin	ND		ug/kg	0.644	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.676	A
Endrin ketone	ND		ug/kg	1.54	0.398	A
Dieldrin	ND		ug/kg	0.966	0.483	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.551	A
4,4'-DDT	ND		ug/kg	1.54	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.644	0.306	A
Methoxychlor	ND		ug/kg	2.90	0.901	A
Toxaphene	ND		ug/kg	29.0	8.11	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.510	A
Chlordane	ND		ug/kg	12.9	5.12	A

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 10/23/22 16:39
Analyst: AAR

Extraction Method: EPA 3546
Extraction Date: 10/23/22 00:04
Cleanup Method: EPA 3620B
Cleanup Date: 10/23/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/23/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1702917-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	121		30-150	A
Decachlorobiphenyl	118		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		30-150	B
Decachlorobiphenyl	110		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1701709-2 WG1701709-3									
MCP	116		119		30-150	3		30	A
MCPA	110		130		30-150	17		30	A
Dalapon	86		99		30-150	14		30	A
Dicamba	111		114		30-150	3		30	A
Dichloroprop	128		126		30-150	2		30	A
2,4-D	109		109		30-150	0		30	A
2,4-DB	96		95		30-150	1		30	A
2,4,5-T	108		107		30-150	1		30	A
2,4,5-TP (Silvex)	110		108		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	126		130		30-150	A
DCAA	76		85		30-150	B



Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Lab Number: L2258475

Project Number: CD10427

Report Date: 10/26/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1702917-2 WG1702917-3									
Delta-BHC	90		90		30-150	0		30	A
Lindane	96		100		30-150	4		30	A
Alpha-BHC	106		109		30-150	3		30	A
Beta-BHC	96		98		30-150	2		30	A
Heptachlor	109		109		30-150	0		30	A
Aldrin	99		99		30-150	0		30	A
Heptachlor epoxide	89		87		30-150	2		30	A
Endrin	109		106		30-150	3		30	A
Endrin aldehyde	85		67		30-150	24		30	A
Endrin ketone	111		104		30-150	7		30	A
Dieldrin	117		116		30-150	1		30	A
4,4'-DDE	113		112		30-150	1		30	A
4,4'-DDD	133		129		30-150	3		30	A
4,4'-DDT	127		122		30-150	4		30	A
Endosulfan I	101		100		30-150	1		30	A
Endosulfan II	110		106		30-150	4		30	A
Endosulfan sulfate	98		80		30-150	20		30	A
Methoxychlor	122		113		30-150	8		30	A
cis-Chlordane	83		82		30-150	1		30	A
trans-Chlordane	117		114		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

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): 01-05 Batch: WG1702917-2 WG1702917-3								

<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	105		108		30-150	A
Decachlorobiphenyl	93		107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		85		30-150	B
Decachlorobiphenyl	91		95		30-150	B

METALS

Project Name: PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22**SAMPLE RESULTS**

Lab ID: L2258475-01
 Client ID: CD10427CE01
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	18000		mg/kg	140	21.	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Antimony, Total	ND		mg/kg	2.2	0.19	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Arsenic, Total	4.1		mg/kg	0.70	0.09	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Barium, Total	170		mg/kg	4.2	0.30	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Beryllium, Total	0.80		mg/kg	0.42	0.12	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Cadmium, Total	0.29		mg/kg	0.28	0.04	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Calcium, Total	6300		mg/kg	700	85.	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Chromium, Total	28		mg/kg	2.8	0.65	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Cobalt, Total	11		mg/kg	0.70	0.07	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Copper, Total	14		mg/kg	2.8	0.27	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Iron, Total	25000		mg/kg	280	29.	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Lead, Total	16		mg/kg	0.84	0.20	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Magnesium, Total	6100		mg/kg	140	17.	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Manganese, Total	520		mg/kg	2.8	0.62	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Mercury, Total	ND		mg/kg	0.092	0.060	1	10/21/22 08:10	10/21/22 13:03	EPA 7471B	1,7471B	ZK
Nickel, Total	21		mg/kg	1.4	0.37	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Potassium, Total	1800		mg/kg	140	22.	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Selenium, Total	5.2		mg/kg	2.8	1.0	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Silver, Total	ND		mg/kg	0.70	0.07	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Sodium, Total	110	J	mg/kg	210	16.	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Thallium, Total	0.22	J	mg/kg	0.56	0.07	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Vanadium, Total	40		mg/kg	1.4	0.53	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP
Zinc, Total	63		mg/kg	14	3.6	10	10/21/22 07:00	10/23/22 21:43	EPA 3050B	1,6020B	WKP



Project Name: PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22**SAMPLE RESULTS**

Lab ID: L2258475-02
 Client ID: CD10427CE02
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
 Date Received: 10/19/22
 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	8000		mg/kg	140	20.	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Antimony, Total	ND		mg/kg	2.2	0.19	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Arsenic, Total	3.8		mg/kg	0.69	0.09	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Barium, Total	56		mg/kg	4.2	0.29	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Beryllium, Total	0.42		mg/kg	0.42	0.12	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Cadmium, Total	0.26	J	mg/kg	0.28	0.04	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Calcium, Total	5900		mg/kg	690	84.	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Chromium, Total	12		mg/kg	2.8	0.65	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Cobalt, Total	4.6		mg/kg	0.69	0.07	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Copper, Total	12		mg/kg	2.8	0.27	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Iron, Total	15000		mg/kg	280	29.	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Lead, Total	15		mg/kg	0.83	0.20	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Magnesium, Total	2200		mg/kg	140	17.	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Manganese, Total	410		mg/kg	2.8	0.62	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Mercury, Total	ND		mg/kg	0.089	0.058	1	10/21/22 08:10	10/21/22 13:06	EPA 7471B	1,7471B	ZK
Nickel, Total	9.9		mg/kg	1.4	0.37	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Potassium, Total	500		mg/kg	140	22.	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Selenium, Total	3.8		mg/kg	2.8	1.0	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Silver, Total	ND		mg/kg	0.69	0.07	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Sodium, Total	45	J	mg/kg	210	16.	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Thallium, Total	0.10	J	mg/kg	0.56	0.07	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Vanadium, Total	24		mg/kg	1.4	0.53	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP
Zinc, Total	45		mg/kg	14	3.6	10	10/21/22 07:00	10/23/22 21:48	EPA 3050B	1,6020B	WKP



Project Name: PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22**SAMPLE RESULTS**

Lab ID: L2258475-03
 Client ID: CD10427CE03
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 49%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6200		mg/kg	200	29.	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Antimony, Total	ND		mg/kg	3.1	0.26	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Arsenic, Total	3.0		mg/kg	0.98	0.13	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Barium, Total	42		mg/kg	5.8	0.41	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Beryllium, Total	0.33	J	mg/kg	0.58	0.17	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Cadmium, Total	0.30	J	mg/kg	0.39	0.05	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Calcium, Total	5800		mg/kg	980	120	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Chromium, Total	10		mg/kg	3.9	0.91	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Cobalt, Total	3.4		mg/kg	0.98	0.10	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Copper, Total	10		mg/kg	3.9	0.38	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Iron, Total	12000		mg/kg	390	40.	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Lead, Total	15		mg/kg	1.2	0.28	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Magnesium, Total	1900		mg/kg	200	24.	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Manganese, Total	120		mg/kg	3.9	0.87	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Mercury, Total	ND		mg/kg	0.127	0.083	1	10/21/22 08:10	10/21/22 13:10	EPA 7471B	1,7471B	ZK
Nickel, Total	9.0		mg/kg	2.0	0.52	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Potassium, Total	370		mg/kg	200	31.	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Selenium, Total	3.4	J	mg/kg	3.9	1.5	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Silver, Total	ND		mg/kg	0.98	0.10	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Sodium, Total	44	J	mg/kg	290	23.	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Thallium, Total	ND		mg/kg	0.78	0.10	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Vanadium, Total	20		mg/kg	2.0	0.74	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP
Zinc, Total	32		mg/kg	20	5.1	10	10/21/22 07:00	10/23/22 21:54	EPA 3050B	1,6020B	WKP



Project Name: PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22**SAMPLE RESULTS**

Lab ID: L2258475-04
 Client ID: CD10427CE04
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 50%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10000		mg/kg	200	29.	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Antimony, Total	0.82	J	mg/kg	3.1	0.26	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Arsenic, Total	5.4		mg/kg	0.98	0.13	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Barium, Total	74		mg/kg	5.9	0.41	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Beryllium, Total	0.68		mg/kg	0.59	0.17	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Cadmium, Total	0.74		mg/kg	0.39	0.05	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Calcium, Total	8500		mg/kg	980	120	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Chromium, Total	19		mg/kg	3.9	0.91	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Cobalt, Total	4.5		mg/kg	0.98	0.10	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Copper, Total	24		mg/kg	3.9	0.38	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Iron, Total	17000		mg/kg	390	40.	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Lead, Total	20		mg/kg	1.2	0.28	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Magnesium, Total	3400		mg/kg	200	24.	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Manganese, Total	160		mg/kg	3.9	0.87	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Mercury, Total	0.141		mg/kg	0.130	0.085	1	10/21/22 08:10	10/21/22 13:13	EPA 7471B	1,7471B	ZK
Nickel, Total	17		mg/kg	2.0	0.52	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Potassium, Total	570		mg/kg	200	31.	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Selenium, Total	5.6		mg/kg	3.9	1.5	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Silver, Total	0.13	J	mg/kg	0.98	0.10	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Sodium, Total	68	J	mg/kg	290	23.	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Thallium, Total	0.21	J	mg/kg	0.78	0.10	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Vanadium, Total	33		mg/kg	2.0	0.74	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV
Zinc, Total	52		mg/kg	20	5.1	10	10/21/22 07:00	10/26/22 11:22	EPA 3050B	1,6020B	SV



Project Name: PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22**SAMPLE RESULTS**

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6400		mg/kg	140	20.	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Antimony, Total	0.29	J	mg/kg	2.2	0.18	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Arsenic, Total	4.1		mg/kg	0.68	0.09	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Barium, Total	57		mg/kg	4.0	0.28	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Beryllium, Total	0.30	J	mg/kg	0.40	0.12	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Cadmium, Total	0.25	J	mg/kg	0.27	0.04	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Calcium, Total	3600		mg/kg	680	82.	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Chromium, Total	9.9		mg/kg	2.7	0.63	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Cobalt, Total	4.4		mg/kg	0.68	0.07	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Copper, Total	11		mg/kg	2.7	0.26	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Iron, Total	14000		mg/kg	270	28.	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Lead, Total	17		mg/kg	0.81	0.20	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Magnesium, Total	1600		mg/kg	140	17.	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Manganese, Total	520		mg/kg	2.7	0.60	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Mercury, Total	ND		mg/kg	0.090	0.059	1	10/21/22 08:10	10/21/22 13:16	EPA 7471B	1,7471B	ZK
Nickel, Total	9.3		mg/kg	1.4	0.36	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Potassium, Total	620		mg/kg	140	21.	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Selenium, Total	1.9	J	mg/kg	2.7	1.0	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Silver, Total	ND		mg/kg	0.68	0.07	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Sodium, Total	33	J	mg/kg	200	16.	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Thallium, Total	0.12	J	mg/kg	0.54	0.07	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Vanadium, Total	20		mg/kg	1.4	0.51	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV
Zinc, Total	35		mg/kg	14	3.5	10	10/21/22 07:00	10/26/22 11:27	EPA 3050B	1,6020B	SV



Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

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): 01-05 Batch: WG1702281-1										
Aluminum, Total	ND		mg/kg	100	15.	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Antimony, Total	ND		mg/kg	1.6	0.14	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Arsenic, Total	ND		mg/kg	0.50	0.07	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Barium, Total	ND		mg/kg	3.0	0.21	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Beryllium, Total	ND		mg/kg	0.30	0.09	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Cadmium, Total	ND		mg/kg	0.20	0.03	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Calcium, Total	ND		mg/kg	500	61.	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Chromium, Total	ND		mg/kg	2.0	0.47	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Cobalt, Total	ND		mg/kg	0.50	0.05	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Copper, Total	ND		mg/kg	2.0	0.19	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Iron, Total	ND		mg/kg	200	21.	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Lead, Total	ND		mg/kg	0.60	0.15	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Magnesium, Total	ND		mg/kg	100	12.	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Manganese, Total	ND		mg/kg	2.0	0.44	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Nickel, Total	ND		mg/kg	1.0	0.27	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Potassium, Total	ND		mg/kg	100	16.	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Selenium, Total	ND		mg/kg	2.0	0.76	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Silver, Total	ND		mg/kg	0.50	0.05	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Sodium, Total	ND		mg/kg	150	12.	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Thallium, Total	0.06	J	mg/kg	0.40	0.05	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Vanadium, Total	ND		mg/kg	1.0	0.38	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP
Zinc, Total	ND		mg/kg	10	2.6	10	10/21/22 07:00	10/23/22 21:11	1,6020B	WKP

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): 01-05 Batch: WG1702283-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/21/22 08:10	10/21/22 12:11	1,7471B	ZK



Project Name: PROPOSED HYDROGEN PLANT

Lab Number: L2258475

Project Number: CD10427

Report Date: 10/26/22

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Project Number: CD10427

Lab Number: L2258475

Report Date: 10/26/22

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1702281-2 SRM Lot Number: D113-540								
Aluminum, Total	76		-		51-149	-		20
Antimony, Total	163		-		20-250	-		20
Arsenic, Total	96		-		70-130	-		20
Barium, Total	96		-		75-125	-		20
Beryllium, Total	92		-		75-125	-		20
Cadmium, Total	94		-		75-125	-		20
Calcium, Total	90		-		73-128	-		20
Chromium, Total	98		-		70-130	-		20
Cobalt, Total	94		-		75-125	-		20
Copper, Total	89		-		75-125	-		20
Iron, Total	103		-		36-164	-		20
Lead, Total	106		-		72-128	-		20
Magnesium, Total	89		-		63-138	-		20
Manganese, Total	92		-		77-123	-		20
Nickel, Total	89		-		70-130	-		20
Potassium, Total	86		-		59-141	-		20
Selenium, Total	99		-		66-134	-		20
Silver, Total	98		-		70-131	-		20
Sodium, Total	91		-		35-164	-		20
Thallium, Total	97		-		70-130	-		20
Vanadium, Total	97		-		74-126	-		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1702281-2 SRM Lot Number: D113-540					
Zinc, Total	88	-	70-130	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1702283-2 SRM Lot Number: D113-540					
Mercury, Total	95	-	60-140	-	

Matrix Spike Analysis Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

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): 01-05 QC Batch ID: WG1702281-3 QC Sample: L2258487-01 Client ID: MS Sample												
Aluminum, Total	9300	192	9000	0	Q	-	-		75-125	-		20
Antimony, Total	2.9	48.1	46	90		-	-		75-125	-		20
Arsenic, Total	9.8	11.6	21	97		-	-		75-125	-		20
Barium, Total	100	192	290	99		-	-		75-125	-		20
Beryllium, Total	0.44	4.81	4.8	90		-	-		75-125	-		20
Cadmium, Total	0.15J	5.1	5.3	104		-	-		75-125	-		20
Calcium, Total	19000	963	18000	0	Q	-	-		75-125	-		20
Chromium, Total	16	19.2	32	83		-	-		75-125	-		20
Cobalt, Total	8.5	48.1	50	86		-	-		75-125	-		20
Copper, Total	64	24.1	67	12	Q	-	-		75-125	-		20
Iron, Total	26000	96.3	25000	0	Q	-	-		75-125	-		20
Lead, Total	77	51	120	84		-	-		75-125	-		20
Magnesium, Total	5400	963	5000	0	Q	-	-		75-125	-		20
Manganese, Total	210	48.1	210	0	Q	-	-		75-125	-		20
Nickel, Total	15	48.1	57	87		-	-		75-125	-		20
Potassium, Total	3000	963	4100	114		-	-		75-125	-		20
Selenium, Total	2.4	11.6	14	121		-	-		75-125	-		20
Silver, Total	0.12J	28.9	27	93		-	-		75-125	-		20
Sodium, Total	1200	963	2000	83		-	-		75-125	-		20
Thallium, Total	0.24J	11.6	11	95		-	-		75-125	-		20
Vanadium, Total	20	48.1	67	98		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Lab Number: L2258475

Project Number: CD10427

Report Date: 10/26/22

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): 01-05 QC Batch ID: WG1702281-3 QC Sample: L2258487-01 Client ID: MS Sample									
Zinc, Total	98	48.1	100	4	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1702283-3 QC Sample: L2258803-01 Client ID: MS Sample									
Mercury, Total	6.03	1.42	8.93	204	Q	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: PROPOSED HYDROGEN PLANT

Project Number: CD10427

Lab Number: L2258475

Report Date: 10/26/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1702281-4 QC Sample: L2258487-01 Client ID: DUP Sample						
Lead, Total	77	59	mg/kg	26	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1702283-4 QC Sample: L2258803-01 Client ID: DUP Sample						
Mercury, Total	6.03	6.29	mg/kg	4		20

Project Name: PROPOSED HYDROGEN PLANT

Project Number: CD10427

**Lab Serial Dilution
Analysis
Batch Quality Control**

Lab Number: L2258475

Report Date: 10/26/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1702281-6 QC Sample: L2258487-01 Client ID: DUP Sample						
Lead, Total	77	77	mg/kg	0		20

INORGANICS & MISCELLANEOUS

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-01
Client ID: CD10427CE01
Sample Location: MASSENA,NY

Date Collected: 10/18/22 12:50
Date Received: 10/19/22
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	68.3		%	0.100	NA	1	-	10/20/22 13:57	121,2540G	RI



Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-02
Client ID: CD10427CE02
Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:30
Date Received: 10/19/22
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	70.3		%	0.100	NA	1	-	10/20/22 13:57	121,2540G	RI



Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-03
Client ID: CD10427CE03
Sample Location: MASSENA,NY

Date Collected: 10/18/22 13:50
Date Received: 10/19/22
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	49.2		%	0.100	NA	1	-	10/20/22 13:57	121,2540G	RI



Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-04
Client ID: CD10427CE04
Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:30
Date Received: 10/19/22
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	49.6		%	0.100	NA	1	-	10/20/22 13:57	121,2540G	RI



Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Lab Number: L2258475
Report Date: 10/26/22

SAMPLE RESULTS

Lab ID: L2258475-05
 Client ID: CD10427CE05
 Sample Location: MASSENA,NY

Date Collected: 10/18/22 14:50
 Date Received: 10/19/22
 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	70.7		%	0.100	NA	1	-	10/20/22 13:57	121,2540G	RI



Lab Duplicate Analysis*Batch Quality Control***Project Name:** PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1702093-1 QC Sample: L2258302-01 Client ID: DUP Sample						
Solids, Total	82.4	81.6	%	1		20

Project Name: PROPOSED HYDROGEN PLANT**Lab Number:** L2258475**Project Number:** CD10427**Report Date:** 10/26/22**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(*)
L2258475-01A	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-01B	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2258475-01C	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-01D	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-01E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-01F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-01X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-01Y	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-01Z	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-02A	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-02B	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		SE-6020T(180),TL-6020T(180),FE-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CD-6020T(180),AG-6020T(180),CO-6020T(180)
L2258475-02C	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-02D	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Serial_No:10262213:33
Lab Number: L2258475
Report Date: 10/26/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2258475-02E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-02F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-02X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-02Y	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-02Z	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-03A	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-03B	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		TL-6020T(180),BA-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),CA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2258475-03C	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-03D	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-03E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-03F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),HERB-8151(14),NYTCL-8082(365)
L2258475-03X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-03Y	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-03Z	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-04A	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-04B	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		TL-6020T(180),SE-6020T(180),BA-6020T(180),FE-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2258475-04C	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-04D	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)

Project Name: PROPOSED HYDROGEN PLANT
Project Number: CD10427

Serial_No: 10262213:33
Lab Number: L2258475
Report Date: 10/26/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2258475-04E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-04F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-04X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-04Y	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-04Z	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-05A	Vial Large Septa unpreserved (4oz)	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-05B	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		SE-6020T(180),BA-6020T(180),FE-6020T(180),TL-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),CO-6020T(180)
L2258475-05C	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-05D	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-05E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-05F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(365),HERB-8151(14)
L2258475-05X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260(14)
L2258475-05Y	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)
L2258475-05Z	Vial Water preserved split	A	NA		2.5	Y	Absent	21-OCT-22 12:52	NYTCL-8260(14)

*Values in parentheses indicate holding time in days



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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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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.

No: 14349

L2258475



ATLANTIC TESTING LABORATORIES

Environmental Chain-Of-Custody Record

Albany 22 Corporate Drive Clifton Park, NY 12065 518/383-9144 (T) 518/383-9166 (F) labAL@atlantictesting.com	Binghamton 126 Park Avenue Binghamton, NY 13903 607/773-1812 (T) 607/773-1835 (F) labBT@atlantictesting.com	Canton 6431 U.S. Highway 11 Canton, NY 13617 315/386-4578 (T) 315/386-1012 (F) labCT@atlantictesting.com	Elmira 2330 Route 352 Elmira, NY 14903 607/737-0700 (T) 607/737-0714 (F) labET@atlantictesting.com	Plattsburgh 130 Arizona Ave Plattsburgh, NY 12903 518/563-5878 (T) 518/562-1321 (F) labPT@atlantictesting.com	Poughkeepsie 251 Upper North Road Highland, NY 12528 845/691-6098 (T) 845/691-6099 (F) labPT@atlantictesting.com	Rochester 3495 Winton Place Rochester, NY 14623 585/427-9020 (T) 585/427-9021 (F) labRT@atlantictesting.com	Syracuse 6085 Court Street Road Syracuse, NY 13206 315/699-5281 (T) 315/699-3374 (F) labST@atlantictesting.com	Utica 301 St. Anthony Street Utica, NY 13501 315/735-3309 (T) 315/735-0742 (F) labUT@atlantictesting.com	Watertown 26581 NYS Route 283 Watertown, NY 13601 315/786-7887 (T) 315/786-2022 (F) labWT@atlantictesting.com
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Project No.		Client Name		QA/QC Code		Parameters						Report Distribution						
CD10427		Air Products & Chemicals Inc.		<input type="checkbox"/> NYSDEC <input type="checkbox"/> SW-846 <input type="checkbox"/> NYSDOH <input type="checkbox"/> CLP <input type="checkbox"/> Other _____								TAT Required: <input type="checkbox"/> 6hr <input type="checkbox"/> 12hr <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input checked="" type="checkbox"/> 5day <input type="checkbox"/> 10day <input type="checkbox"/> Other _____						
Page 1 of 1		ATL Project Contact: Cheyenne Dashnaw		Project Location: Massena, NY								E-mail Results: labCT@atlantictesting.com						
Project Name: Proposed Hydrogen Plant		Date		Time		Field Sample No.		Sample Location		Sample Type		No. of Containers		Notes		Laboratory Sample ID No.		Custody Seal: X= intact
10/18/22		1250		CD10427CE01		North of B-1		G/S		6		X						
10/18/22		1330		CD10427CE02		North of B-2		G/S		6		X						
10/18/22		1350		CD10427CE03		South of B-3		G/S		6		X						
10/18/22		1430		CD10427CE04		North of B-4		G/S		6		X						
10/18/22		1450		CD10427CE05		North of B-5		G/S		6		X						

Samplers Name: Jordan Spurn	Date: 10/19/22	Received for Name:	Date:	Shipment Rec'd Intact?
Samplers Signature: [Signature]	Time: 1500	Laboratory Signature:	Time:	<input type="checkbox"/> YES <input type="checkbox"/> NO

Samples Relinquished By:		Samples Received By:		Sample Type Code Key:		Laboratory Remarks	
Name: Jordan Spurn	Date: 10/19/22	Name: AAL	Date: 10/19/22	Description c Composite O QA/QC G Grab O Other 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			
Signature: [Signature]	Time: 1245	Signature: Secure Storage	Time: 1245				
Name: AAL	Date: 10/19/22	Name: AAL C. Stehle	Date: 10/19/22				
Signature: Secure Storage	Time: 1745	Signature: [Signature]	Time: 1745				

Distribution: White with Samples
 Pink to ATL Files
 Ch. Stehle 10/19/22 1745
 [Signature] 10/20/22 0010
 pdrive:Forms\Environmental\OfficeForms\Environmental Chain-Of-Custody Record rev 6: 02/22/19
 ENV-001B
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ATTACHMENT B
SUMMARY OF LABORATORY RESULTS

Table B-1
Summary of Laboratory Analysis Results
Proposed Hydrogen Plant, Massena, New York
Soil Samples Collected October 18, 2022

Sample Identification	CD10427CD01	CD10427CD02	CD10427CD03	CD10427CD04	CD10427CD05	NYSDEC Unrestricted Use Soil Cleanup Objectives
Sample Date	10-18-2022	10-18-2022	10-18-2022	10-18-2022	10-18-2022	
Sample Type	Grab	Grab	Grab	Grab	Grab	
Volatile Organic Compounds (ppm)						
Toluene	ND	0.00088	0.0011	0.0011	ND	0.7
All Other Target VOC	ND	ND	ND	ND	ND	---
Semi-VOC (ppm)						
Bis(2-ethylhexyl)phthalate	ND	ND	ND	0.14	ND	50
All Other Target Semi-VOC	ND	ND	ND	ND	ND	---
Pesticides (ppm)						
All Other Target Pesticides	ND	ND	ND	ND	ND	---
Herbicides (ppm)						
All Other Target Herbicides	ND	ND	ND	ND	ND	---
Polychlorinated Biphenyl (ppm)						
Total PCB	ND	ND	ND	ND	ND	0.1
TAL Metals (ppm)						
Silver	ND	ND	ND	0.13	ND	2
Aluminum	18,000	8,000	6,200	10,000	6,400	10,000 ¹
Arsenic	4.1	3.8	3	5.4	4.1	13
Barium	170	56	42	74	57	350
Beryllium	0.80	0.42	0.33	0.68	0.30	7.2
Calcium	6,300	5,900	5,800	8,500	3,600	10,000 ¹
Cadmium	0.29	0.26	0.30	0.74	0.25	2.5
Cobalt	11	4.6	3.4	4.5	4.4	20 ¹
Chromium	28	12	10	19	9.9	30
Copper	14	12	10	24	11	50
Iron	25,000	15,000	12,000	17,000	14,000	2,000 ¹
Mercury	ND	ND	ND	0.141	ND	0.18
Potassium	1,800	500	370	570	620	--
Magnesium	6,100	2,200	1,900	3,400	1,600	--
Manganese	520	410	120	160	520	1,600
Sodium	110	45	44	68	33	--
Nickel	21	9.9	9	17	9.3	30
Lead	16	15	15	20	17	63
Antimony	ND	ND	ND	0.82	0.29	12 ¹
Selenium	5.2	3.8	3.4	5.6	1.9	3.9
Thallium	0.22	0.10	ND	0.21	0.12	5 ¹
Vanadium	40	24	20	33	20	39 ¹
Zinc	63	45	32	52	35	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.