



ATLANTIC TESTING LABORATORIES

WBE certified company

Watertown
26581 NYS Route 283
Watertown, NY 13601
315-786-7887 (T)
atlantictesting.com

October 17, 2022

Lewis County
7660 North State Street
Lowville, New York 13367

Attn: Ryan Piche

Re: Soil Sampling and Analysis Services
Lewis County 2022 Facilities Improvement
Lowville, New York
ATL Report No. WT2476CE-01-10-22

At the request of representatives of Lewis County and in accordance with Atlantic Testing Laboratories, Limited (ATL) contract number WT998-586-03-22 Addendum 1, dated October 7, 2022, soil sampling was performed at the subject site on October 7, 2022. The sampling and subsequent laboratory analysis were conducted to evaluate the presence or absence of designated contaminants of concern for an on-site soil stockpile (comprised of soil excavated from the footprint of the future Highway Garage). Information presented herein is provided as a summary for the samples collected on October 7, 2022, with comparison to NYSDEC standards for soil reuse criteria.

Soil Sampling and Analysis

The sampling event on October 7, 2022, included 2 composite soil samples and 4 grab soil samples from the stockpile of soil removed from the footprint of the future Highway Garage located in Lowville, New York. These samples were collected and analyzed for evaluation of reuse options. The samples were collected in general accordance with New York State Department of Environmental Conservation (NYSDEC) soil sampling guidelines. The grab samples for reuse evaluation were identified as WT2476-01, WT2476-02, WT2476-03, and WT2476-04. The composite samples for reuse evaluation were identified as WT2476-05 and WT2476-06.

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 picked up from 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 for reuse evaluation were laboratory analyzed for volatile organic compounds (VOC) in accordance with EPA Method 8260. The composite samples for reuse evaluation were laboratory analyzed for semi-VOC, in accordance with EPA Method 8270; pesticides, in accordance with EPA Method 8081; polychlorinated biphenyls (PCB), in accordance with EPA Method 8082; cyanide, 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. Tabular summaries of laboratory analysis results for the reuse evaluation samples, with comparison to NYSDEC Unrestricted Use Soil Cleanup Objectives (SCO) and 6 NYCRR Part 360 Fill Material Beneficial Use Criteria, are provided in Tables B-1 and B-2 of Attachment B.

Summary of Findings

ATL performed sampling at the subject site, for the stockpile of soil removed from the footprint of the future Highway Garage, as directed by Lewis County. Laboratory analysis of the grab and composite soil

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October 17, 2022

samples identified detectable concentrations of some target metals. Calcium and Iron exceeded corresponding limits and guidelines established by the NYSDEC for unrestricted use, but are below fill criteria established in 6 NYCRR Part 360 beneficial use criteria.

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


R. Daniel Faulkham for
Senior Project Manager

CJD/js

Enclosures

ATTACHMENT A
LABORATORY REPORT AND
ASSOCIATED SAMPLE CUSTODY DOCUMENTATION



ANALYTICAL REPORT

Lab Number:	L2256121
Client:	Atlantic Testing Laboratories, Limited 26581 NYS Route 283 Watertown, NY 13601
ATTN:	Robert D. Faulknham
Phone:	(315) 786-7887
Project Name:	LEWIS COUNTY 2022 FACILITIES I
Project Number:	WT2476
Report Date:	10/11/22

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: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2256121-01	WT2476-01	SOIL	LOWVILLE, NY	10/07/22 11:00	10/10/22
L2256121-02	WT2476-02	SOIL	LOWVILLE, NY	10/07/22 11:05	10/10/22
L2256121-03	WT2476-03	SOIL	LOWVILLE, NY	10/07/22 11:10	10/10/22
L2256121-04	WT2476-04	SOIL	LOWVILLE, NY	10/07/22 11:15	10/10/22
L2256121-05	WT2476-05	SOIL	LOWVILLE, NY	10/07/22 11:20	10/10/22
L2256121-06	WT2476-06	SOIL	LOWVILLE, NY	10/07/22 11:30	10/10/22

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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

L2256121-01, -02, -03 and -04: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L2256121-05 and -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1697810-3 MS recoveries for aluminum (29%), calcium (1310%), iron (0%) and manganese (148%), performed on L2256121-05, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1697810-4 Laboratory Duplicate RPDs for calcium (58%), chromium (61%), copper (41%) and potassium (39%), performed on L2256121-05, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1697927-2 LCS recovery for cyanide, total (55%), associated with L2256121-05 and -06, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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

Authorized Signature:



Caitlin Walukevich

Title: Technical Director/Representative

Date: 10/11/22

ORGANICS

VOLATILES

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-01
Client ID: WT2476-01
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:00
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/11/22 09:28
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.89	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-01
Client ID: WT2476-01
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:00
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	77	34.	1
Freon-113	ND		ug/kg	3.8	0.66	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-01
Client ID: WT2476-01
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:00
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-02
Client ID: WT2476-02
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:05
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/11/22 09:51
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-02
Client ID: WT2476-02
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:05
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
Xylenes, Total	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.13	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
n-Butylbenzene	ND		ug/kg	0.96	0.16	1
sec-Butylbenzene	ND		ug/kg	0.96	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.10	1
Naphthalene	ND		ug/kg	3.8	0.62	1
n-Propylbenzene	ND		ug/kg	0.96	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	77	34.	1
Freon-113	ND		ug/kg	3.8	0.67	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-02
Client ID: WT2476-02
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:05
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-03
Client ID: WT2476-03
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:10
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/11/22 10:14
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.83	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.83	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.83	0.10	1
Dibromochloromethane	ND		ug/kg	0.83	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	0.22	1
Tetrachloroethene	ND		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.83	0.45	1
Ethylbenzene	ND		ug/kg	0.83	0.12	1
Chloromethane	ND		ug/kg	3.3	0.77	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.83	0.28	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.41	0.11	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-03
Client ID: WT2476-03
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:10
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.17	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.83	0.24	1
Xylenes, Total	ND		ug/kg	0.83	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	0.11	1
Styrene	ND		ug/kg	0.83	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.3	0.76	1
Acetone	ND		ug/kg	8.3	4.0	1
Carbon disulfide	ND		ug/kg	8.3	3.8	1
2-Butanone	ND		ug/kg	8.3	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.3	1.0	1
2-Hexanone	ND		ug/kg	8.3	0.98	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.83	0.23	1
n-Butylbenzene	ND		ug/kg	0.83	0.14	1
sec-Butylbenzene	ND		ug/kg	0.83	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.83	1
Isopropylbenzene	ND		ug/kg	0.83	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.83	0.09	1
Naphthalene	ND		ug/kg	3.3	0.54	1
n-Propylbenzene	ND		ug/kg	0.83	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.28	1
Methyl Acetate	ND		ug/kg	3.3	0.79	1
Cyclohexane	ND		ug/kg	8.3	0.45	1
1,4-Dioxane	ND		ug/kg	66	29.	1
Freon-113	ND		ug/kg	3.3	0.57	1
Methyl cyclohexane	ND		ug/kg	3.3	0.50	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-03
Client ID: WT2476-03
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:10
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-04
Client ID: WT2476-04
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:15
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 10/11/22 10:37
Analyst: NLK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-04
Client ID: WT2476-04
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:15
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.13	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.9	0.92	1
Cyclohexane	ND		ug/kg	9.7	0.53	1
1,4-Dioxane	ND		ug/kg	78	34.	1
Freon-113	ND		ug/kg	3.9	0.67	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-04
Client ID: WT2476-04
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:15
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/22 09:00
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1698014-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/22 09:00
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1698014-5					
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 10/11/22 09:00
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04 Batch: WG1698014-5					
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LEWIS COUNTY 2022 FACILITIES I

Project Number: WT2476

Lab Number: L2256121

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1698014-3 WG1698014-4								
Methylene chloride	104		102		70-130	2		30
1,1-Dichloroethane	96		94		70-130	2		30
Chloroform	98		98		70-130	0		30
Carbon tetrachloride	95		97		70-130	2		30
1,2-Dichloropropane	100		102		70-130	2		30
Dibromochloromethane	93		99		70-130	6		30
1,1,2-Trichloroethane	88		92		70-130	4		30
Tetrachloroethene	95		98		70-130	3		30
Chlorobenzene	97		101		70-130	4		30
Trichlorofluoromethane	92		91		70-139	1		30
1,2-Dichloroethane	102		102		70-130	0		30
1,1,1-Trichloroethane	97		99		70-130	2		30
Bromodichloromethane	105		107		70-130	2		30
trans-1,3-Dichloropropene	89		93		70-130	4		30
cis-1,3-Dichloropropene	95		97		70-130	2		30
Bromoform	80		93		70-130	15		30
1,1,2,2-Tetrachloroethane	93		106		70-130	13		30
Benzene	96		98		70-130	2		30
Toluene	92		94		70-130	2		30
Ethylbenzene	94		94		70-130	0		30
Chloromethane	64		65		52-130	2		30
Bromomethane	78		76		57-147	3		30
Vinyl chloride	77		75		67-130	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LEWIS COUNTY 2022 FACILITIES I

Project Number: WT2476

Lab Number: L2256121

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1698014-3 WG1698014-4								
Chloroethane	81		81		50-151	0		30
1,1-Dichloroethene	92		91		65-135	1		30
trans-1,2-Dichloroethene	96		96		70-130	0		30
Trichloroethene	83		87		70-130	5		30
1,2-Dichlorobenzene	100		105		70-130	5		30
1,3-Dichlorobenzene	98		104		70-130	6		30
1,4-Dichlorobenzene	99		105		70-130	6		30
Methyl tert butyl ether	108		109		66-130	1		30
p/m-Xylene	100		96		70-130	4		30
o-Xylene	100		96		70-130	4		30
cis-1,2-Dichloroethene	101		100		70-130	1		30
Styrene	99		97		70-130	2		30
Dichlorodifluoromethane	40		39		30-146	3		30
Acetone	73		62		54-140	16		30
Carbon disulfide	85		83		59-130	2		30
2-Butanone	97		98		70-130	1		30
4-Methyl-2-pentanone	104		106		70-130	2		30
2-Hexanone	92		96		70-130	4		30
Bromochloromethane	105		106		70-130	1		30
1,2-Dibromoethane	90		96		70-130	6		30
n-Butylbenzene	92		99		70-130	7		30
sec-Butylbenzene	91		97		70-130	6		30
tert-Butylbenzene	91		96		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04 Batch: WG1698014-3 WG1698014-4								
1,2-Dibromo-3-chloropropane	79		92		68-130	15		30
Isopropylbenzene	91		98		70-130	7		30
p-Isopropyltoluene	95		100		70-130	5		30
Naphthalene	90		102		70-130	13		30
n-Propylbenzene	91		96		70-130	5		30
1,2,3-Trichlorobenzene	93		105		70-130	12		30
1,2,4-Trichlorobenzene	96		107		70-130	11		30
1,3,5-Trimethylbenzene	95		101		70-130	6		30
1,2,4-Trimethylbenzene	94		101		70-130	7		30
Methyl Acetate	96		92		51-146	4		30
Cyclohexane	88		89		59-142	1		30
1,4-Dioxane	99		101		65-136	2		30
Freon-113	91		91		50-139	0		30
Methyl cyclohexane	91		91		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		102		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	97		102		70-130
Dibromofluoromethane	108		105		70-130

SEMIVOLATILES

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-05
Client ID: WT2476-05
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:20
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/11/22 10:54
Analyst: JG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/11/22 04:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-05
Client ID: WT2476-05
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:20
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	64		18-120

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-06
Client ID: WT2476-06
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:30
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/11/22 11:17
Analyst: JG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/11/22 04:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-06
Client ID: WT2476-06
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:30
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	24.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	68		18-120

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/10/22 23:47
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/10/22 14:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1697624-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/10/22 23:47
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/10/22 14:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1697624-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/10/22 23:47
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 10/10/22 14:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1697624-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	68		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LEWIS COUNTY 2022 FACILITIES I

Project Number: WT2476

Lab Number: L2256121

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1697624-2 WG1697624-3								
Acenaphthene	68		73		31-137	7		50
1,2,4-Trichlorobenzene	62		72		38-107	15		50
Hexachlorobenzene	62		69		40-140	11		50
Bis(2-chloroethyl)ether	64		73		40-140	13		50
2-Chloronaphthalene	66		72		40-140	9		50
1,2-Dichlorobenzene	64		73		40-140	13		50
1,3-Dichlorobenzene	64		71		40-140	10		50
1,4-Dichlorobenzene	63		71		28-104	12		50
3,3'-Dichlorobenzidine	59		71		40-140	18		50
2,4-Dinitrotoluene	71		79		40-132	11		50
2,6-Dinitrotoluene	73		79		40-140	8		50
Fluoranthene	70		78		40-140	11		50
4-Chlorophenyl phenyl ether	67		74		40-140	10		50
4-Bromophenyl phenyl ether	67		74		40-140	10		50
Bis(2-chloroisopropyl)ether	83		94		40-140	12		50
Bis(2-chloroethoxy)methane	69		76		40-117	10		50
Hexachlorobutadiene	68		76		40-140	11		50
Hexachlorocyclopentadiene	65		74		40-140	13		50
Hexachloroethane	68		80		40-140	16		50
Isophorone	70		79		40-140	12		50
Naphthalene	65		74		40-140	13		50
Nitrobenzene	70		81		40-140	15		50
NDPA/DPA	72		77		36-157	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I

Project Number: WT2476

Lab Number: L2256121

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1697624-2 WG1697624-3								
n-Nitrosodi-n-propylamine	74		86		32-121	15		50
Bis(2-ethylhexyl)phthalate	80		89		40-140	11		50
Butyl benzyl phthalate	76		83		40-140	9		50
Di-n-butylphthalate	76		82		40-140	8		50
Di-n-octylphthalate	78		86		40-140	10		50
Diethyl phthalate	73		81		40-140	10		50
Dimethyl phthalate	70		77		40-140	10		50
Benzo(a)anthracene	73		79		40-140	8		50
Benzo(a)pyrene	76		85		40-140	11		50
Benzo(b)fluoranthene	67		73		40-140	9		50
Benzo(k)fluoranthene	69		77		40-140	11		50
Chrysene	69		77		40-140	11		50
Acenaphthylene	73		80		40-140	9		50
Anthracene	71		79		40-140	11		50
Benzo(ghi)perylene	64		69		40-140	8		50
Fluorene	69		75		40-140	8		50
Phenanthrene	69		74		40-140	7		50
Dibenzo(a,h)anthracene	67		70		40-140	4		50
Indeno(1,2,3-cd)pyrene	68		73		40-140	7		50
Pyrene	70		78		35-142	11		50
Biphenyl	68		75		37-127	10		50
4-Chloroaniline	51		92		40-140	57	Q	50
2-Nitroaniline	80		88		47-134	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I

Lab Number: L2256121

Project Number: WT2476

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1697624-2 WG1697624-3								
3-Nitroaniline	48		55		26-129	14		50
4-Nitroaniline	74		80		41-125	8		50
Dibenzofuran	68		75		40-140	10		50
2-Methylnaphthalene	67		76		40-140	13		50
1,2,4,5-Tetrachlorobenzene	68		75		40-117	10		50
Acetophenone	66		74		14-144	11		50
Benzyl Alcohol	76		88		40-140	15		50
Carbazole	73		80		54-128	9		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		84		25-120
Phenol-d6	74		87		10-120
Nitrobenzene-d5	74		87		23-120
2-Fluorobiphenyl	68		77		30-120
2,4,6-Tribromophenol	68		76		10-136
4-Terphenyl-d14	69		76		18-120

PCBS

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-05
Client ID: WT2476-05
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:20
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/11/22 15:03
Analyst: MEO
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/11/22 04:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0361	0.00320	1	A
Aroclor 1221	ND		mg/kg	0.0361	0.00361	1	A
Aroclor 1232	ND		mg/kg	0.0361	0.00765	1	A
Aroclor 1242	ND		mg/kg	0.0361	0.00486	1	A
Aroclor 1248	ND		mg/kg	0.0361	0.00541	1	A
Aroclor 1254	ND		mg/kg	0.0361	0.00395	1	A
Aroclor 1260	ND		mg/kg	0.0361	0.00666	1	A
Aroclor 1262	ND		mg/kg	0.0361	0.00458	1	A
Aroclor 1268	ND		mg/kg	0.0361	0.00374	1	A
PCBs, Total	ND		mg/kg	0.0361	0.00320	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-06
Client ID: WT2476-06
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:30
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/11/22 15:10
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/11/22 04:57
Cleanup Method: EPA 3665A
Cleanup Date: 10/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		mg/kg	0.0367	0.00326	1	A
Aroclor 1221	ND		mg/kg	0.0367	0.00368	1	A
Aroclor 1232	ND		mg/kg	0.0367	0.00779	1	A
Aroclor 1242	ND		mg/kg	0.0367	0.00495	1	A
Aroclor 1248	ND		mg/kg	0.0367	0.00551	1	A
Aroclor 1254	ND		mg/kg	0.0367	0.00402	1	A
Aroclor 1260	ND		mg/kg	0.0367	0.00679	1	A
Aroclor 1262	ND		mg/kg	0.0367	0.00466	1	A
Aroclor 1268	ND		mg/kg	0.0367	0.00380	1	A
PCBs, Total	ND		mg/kg	0.0367	0.00326	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 10/11/22 14:43
 Analyst: MEO

Extraction Method: EPA 3546
 Extraction Date: 10/11/22 04:57
 Cleanup Method: EPA 3665A
 Cleanup Date: 10/11/22
 Cleanup Method: EPA 3660B
 Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05-06 Batch: WG1697762-1						
Aroclor 1016	ND		mg/kg	0.0323	0.00287	A
Aroclor 1221	ND		mg/kg	0.0323	0.00324	A
Aroclor 1232	ND		mg/kg	0.0323	0.00685	A
Aroclor 1242	ND		mg/kg	0.0323	0.00435	A
Aroclor 1248	ND		mg/kg	0.0323	0.00484	A
Aroclor 1254	ND		mg/kg	0.0323	0.00353	A
Aroclor 1260	ND		mg/kg	0.0323	0.00597	A
Aroclor 1262	ND		mg/kg	0.0323	0.00410	A
Aroclor 1268	ND		mg/kg	0.0323	0.00335	A
PCBs, Total	ND		mg/kg	0.0323	0.00287	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	68		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** LEWIS COUNTY 2022 FACILITIES I**Lab Number:** L2256121**Project Number:** WT2476**Report Date:** 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05-06 Batch: WG1697762-2 WG1697762-3									
Aroclor 1016	83		78		40-140	6		50	A
Aroclor 1260	74		67		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		85		30-150	A
Decachlorobiphenyl	90		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		82		30-150	B
Decachlorobiphenyl	79		70		30-150	B

PESTICIDES

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-05
Client ID: WT2476-05
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:20
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/22 11:37
Analyst: MMG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 10/11/22 05:17
Cleanup Method: EPA 3620B
Cleanup Date: 10/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.334	1	A
Lindane	ND		ug/kg	0.711	0.318	1	A
Alpha-BHC	ND		ug/kg	0.711	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.647	1	A
Heptachlor	ND		ug/kg	0.853	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1	A
Endrin	ND		ug/kg	0.711	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.747	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	ND		ug/kg	1.07	0.533	1	A
4,4'-DDE	ND		ug/kg	1.71	0.395	1	A
4,4'-DDD	ND		ug/kg	1.71	0.609	1	A
4,4'-DDT	ND		ug/kg	1.71	1.37	1	A
Endosulfan I	ND		ug/kg	1.71	0.403	1	A
Endosulfan II	ND		ug/kg	1.71	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.711	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.996	1	A
Toxaphene	ND		ug/kg	32.0	8.96	1	A
cis-Chlordane	ND		ug/kg	2.13	0.594	1	A
trans-Chlordane	ND		ug/kg	2.13	0.563	1	A
Chlordane	ND		ug/kg	14.2	5.65	1	A

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-05
Client ID: WT2476-05
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:20
Date Received: 10/10/22
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	74		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-06
Client ID: WT2476-06
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:30
Date Received: 10/10/22
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/11/22 11:49
Analyst: MMG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 10/11/22 05:17
Cleanup Method: EPA 3620B
Cleanup Date: 10/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.741	0.331	1	A
Alpha-BHC	ND		ug/kg	0.741	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.674	1	A
Heptachlor	ND		ug/kg	0.889	0.399	1	A
Aldrin	ND		ug/kg	1.78	0.626	1	A
Heptachlor epoxide	ND		ug/kg	3.33	1.00	1	A
Endrin	ND		ug/kg	0.741	0.304	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.778	1	A
Endrin ketone	ND		ug/kg	1.78	0.458	1	A
Dieldrin	ND		ug/kg	1.11	0.556	1	A
4,4'-DDE	ND		ug/kg	1.78	0.411	1	A
4,4'-DDD	ND		ug/kg	1.78	0.634	1	A
4,4'-DDT	ND		ug/kg	1.78	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	ND		ug/kg	1.78	0.594	1	A
Endosulfan sulfate	ND		ug/kg	0.741	0.353	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.34	1	A
cis-Chlordane	ND		ug/kg	2.22	0.620	1	A
trans-Chlordane	ND		ug/kg	2.22	0.587	1	A
Chlordane	ND		ug/kg	14.8	5.89	1	A

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-06
Client ID: WT2476-06
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:30
Date Received: 10/10/22
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	77		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/11/22 11:01
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/11/22 05:17
Cleanup Method: EPA 3620B
Cleanup Date: 10/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05-06 Batch: WG1697764-1						
Delta-BHC	ND		ug/kg	1.52	0.299	A
Lindane	ND		ug/kg	0.635	0.284	A
Alpha-BHC	ND		ug/kg	0.635	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.762	0.342	A
Aldrin	ND		ug/kg	1.52	0.537	A
Heptachlor epoxide	ND		ug/kg	2.86	0.858	A
Endrin	ND		ug/kg	0.635	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.667	A
Endrin ketone	ND		ug/kg	1.52	0.393	A
Dieldrin	ND		ug/kg	0.953	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.353	A
4,4'-DDD	ND		ug/kg	1.52	0.544	A
4,4'-DDT	ND		ug/kg	1.52	1.23	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.510	A
Endosulfan sulfate	ND		ug/kg	0.635	0.302	A
Methoxychlor	ND		ug/kg	2.86	0.889	A
Toxaphene	ND		ug/kg	28.6	8.00	A
cis-Chlordane	ND		ug/kg	1.90	0.531	A
trans-Chlordane	ND		ug/kg	1.90	0.503	A
Chlordane	ND		ug/kg	12.7	5.05	A

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/11/22 11:01
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/11/22 05:17
Cleanup Method: EPA 3620B
Cleanup Date: 10/11/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/11/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05-06 Batch: WG1697764-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: LEWIS COUNTY 2022 FACILITIES I

Project Number: WT2476

Lab Number: L2256121

Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05-06 Batch: WG1697764-2 WG1697764-3									
Delta-BHC	85		96		30-150	12		30	A
Lindane	93		106		30-150	13		30	A
Alpha-BHC	95		108		30-150	13		30	A
Beta-BHC	88		102		30-150	15		30	A
Heptachlor	96		110		30-150	14		30	A
Aldrin	86		97		30-150	12		30	A
Heptachlor epoxide	80		89		30-150	11		30	A
Endrin	91		103		30-150	12		30	A
Endrin aldehyde	81		95		30-150	16		30	A
Endrin ketone	98		112		30-150	13		30	A
Dieldrin	96		108		30-150	12		30	A
4,4'-DDE	92		104		30-150	12		30	A
4,4'-DDD	110		125		30-150	13		30	A
4,4'-DDT	107		121		30-150	12		30	A
Endosulfan I	84		95		30-150	12		30	A
Endosulfan II	92		104		30-150	12		30	A
Endosulfan sulfate	82		94		30-150	14		30	A
Methoxychlor	119		135		30-150	13		30	A
cis-Chlordane	78		88		30-150	12		30	A
trans-Chlordane	96		108		30-150	12		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05-06 Batch: WG1697764-2 WG1697764-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		90		30-150	A
Decachlorobiphenyl	96		109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		96		30-150	B
Decachlorobiphenyl	95		106		30-150	B

METALS

Project Name: LEWIS COUNTY 2022 FACILITIES I**Lab Number:** L2256121**Project Number:** WT2476**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2256121-05

Date Collected: 10/07/22 11:20

Client ID: WT2476-05

Date Received: 10/10/22

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2980		mg/kg	8.54	2.31	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Antimony, Total	ND		mg/kg	4.27	0.325	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Arsenic, Total	1.52		mg/kg	0.854	0.178	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Barium, Total	16.2		mg/kg	0.854	0.149	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.309	J	mg/kg	0.427	0.028	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Cadmium, Total	ND		mg/kg	0.854	0.084	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Calcium, Total	21900		mg/kg	8.54	2.99	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Chromium, Total	5.31		mg/kg	0.854	0.082	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Cobalt, Total	2.53		mg/kg	1.71	0.142	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Copper, Total	4.32		mg/kg	0.854	0.220	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Iron, Total	8020		mg/kg	4.27	0.771	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Lead, Total	2.51	J	mg/kg	4.27	0.229	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Magnesium, Total	1220		mg/kg	8.54	1.32	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Manganese, Total	187		mg/kg	0.854	0.136	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Mercury, Total	ND		mg/kg	0.071	0.046	1	10/11/22 08:15	10/11/22 12:40	EPA 7471B	1,7471B	ZK
Nickel, Total	3.79		mg/kg	2.14	0.207	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Potassium, Total	517		mg/kg	214	12.3	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	1.71	0.220	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.854	0.242	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Sodium, Total	51.2	J	mg/kg	171	2.69	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	1.71	0.269	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Vanadium, Total	7.07		mg/kg	0.854	0.173	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW
Zinc, Total	20.2		mg/kg	4.27	0.250	2	10/11/22 08:50	10/11/22 11:59	EPA 3050B	1,6010D	EGW



Project Name: LEWIS COUNTY 2022 FACILITIES I**Lab Number:** L2256121**Project Number:** WT2476**Report Date:** 10/11/22**SAMPLE RESULTS**

Lab ID: L2256121-06

Date Collected: 10/07/22 11:30

Client ID: WT2476-06

Date Received: 10/10/22

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1660		mg/kg	8.40	2.27	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Antimony, Total	ND		mg/kg	4.20	0.319	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Arsenic, Total	0.944		mg/kg	0.840	0.175	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Barium, Total	14.6		mg/kg	0.840	0.146	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.258	J	mg/kg	0.420	0.028	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Cadmium, Total	ND		mg/kg	0.840	0.082	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Calcium, Total	11500		mg/kg	8.40	2.94	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Chromium, Total	2.12		mg/kg	0.840	0.081	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Cobalt, Total	0.906	J	mg/kg	1.68	0.140	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Copper, Total	0.759	J	mg/kg	0.840	0.217	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Iron, Total	7880		mg/kg	4.20	0.759	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Lead, Total	1.14	J	mg/kg	4.20	0.225	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Magnesium, Total	720		mg/kg	8.40	1.29	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Manganese, Total	69.5		mg/kg	0.840	0.134	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Mercury, Total	ND		mg/kg	0.070	0.046	1	10/11/22 08:15	10/11/22 12:43	EPA 7471B	1,7471B	ZK
Nickel, Total	1.20	J	mg/kg	2.10	0.203	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Potassium, Total	206	J	mg/kg	210	12.1	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	1.68	0.217	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.840	0.238	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Sodium, Total	92.2	J	mg/kg	168	2.65	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Thallium, Total	ND		mg/kg	1.68	0.265	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Vanadium, Total	7.36		mg/kg	0.840	0.171	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW
Zinc, Total	11.4		mg/kg	4.20	0.246	2	10/11/22 08:50	10/11/22 11:49	EPA 3050B	1,6010D	EGW



Project Name: LEWIS COUNTY 2022 FACILITIES I

Lab Number: L2256121

Project Number: WT2476

Report Date: 10/11/22

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): 05-06 Batch: WG1697771-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/11/22 08:15	10/11/22 11:48	1,7471B	ZK

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1697810-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Antimony, Total	ND		mg/kg	2.00	0.152	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Barium, Total	ND		mg/kg	0.400	0.070	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Calcium, Total	ND		mg/kg	4.00	1.40	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Cobalt, Total	ND		mg/kg	0.800	0.066	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Copper, Total	ND		mg/kg	0.400	0.103	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Iron, Total	0.703	J	mg/kg	2.00	0.361	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Lead, Total	ND		mg/kg	2.00	0.107	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Magnesium, Total	ND		mg/kg	4.00	0.616	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Manganese, Total	0.134	J	mg/kg	0.400	0.064	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Potassium, Total	ND		mg/kg	100	5.76	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Silver, Total	ND		mg/kg	0.400	0.113	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Sodium, Total	1.55	J	mg/kg	80.0	1.26	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Thallium, Total	ND		mg/kg	0.800	0.126	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Vanadium, Total	ND		mg/kg	0.400	0.081	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/11/22 08:50	10/11/22 11:42	1,6010D	EGW



Project Name: LEWIS COUNTY 2022 FACILITIES I

Lab Number: L2256121

Project Number: WT2476

Report Date: 10/11/22

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** LEWIS COUNTY 2022 FACILITIES I**Lab Number:** L2256121**Project Number:** WT2476**Report Date:** 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1697771-2 SRM Lot Number: D113-540								
Mercury, Total	107		-		60-140	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1697810-2 SRM Lot Number: D113-540					
Aluminum, Total	74	-	51-149	-	
Antimony, Total	156	-	20-250	-	
Arsenic, Total	100	-	70-130	-	
Barium, Total	92	-	75-125	-	
Beryllium, Total	92	-	75-125	-	
Cadmium, Total	92	-	75-125	-	
Calcium, Total	93	-	73-128	-	
Chromium, Total	94	-	70-130	-	
Cobalt, Total	94	-	75-125	-	
Copper, Total	95	-	75-125	-	
Iron, Total	88	-	36-164	-	
Lead, Total	98	-	72-128	-	
Magnesium, Total	85	-	63-138	-	
Manganese, Total	95	-	77-123	-	
Nickel, Total	95	-	70-130	-	
Potassium, Total	83	-	59-141	-	
Selenium, Total	98	-	66-134	-	
Silver, Total	96	-	70-131	-	
Sodium, Total	95	-	35-164	-	
Thallium, Total	94	-	70-130	-	
Vanadium, Total	95	-	74-126	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** LEWIS COUNTY 2022 FACILITIES I**Project Number:** WT2476**Lab Number:** L2256121**Report Date:** 10/11/22

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1697810-2 SRM Lot Number: D113-540					
Zinc, Total	92	-	70-130	-	

Matrix Spike Analysis Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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): 05-06 QC Batch ID: WG1697771-3 QC Sample: L2256250-01 Client ID: MS Sample												
Mercury, Total	0.671	1.37	2.56	137	Q	-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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): 05-06 QC Batch ID: WG1697810-3 QC Sample: L2256121-05 Client ID: WT2476-05									
Aluminum, Total	2980	172	3030	29	Q	-	75-125	-	20
Antimony, Total	ND	43.1	40.3	93		-	75-125	-	20
Arsenic, Total	1.52	10.3	12.2	103		-	75-125	-	20
Barium, Total	16.2	172	181	96		-	75-125	-	20
Beryllium, Total	0.309J	4.31	4.58	106		-	75-125	-	20
Cadmium, Total	ND	4.57	4.32	94		-	75-125	-	20
Calcium, Total	21900	862	33200	1310	Q	-	75-125	-	20
Chromium, Total	5.31	17.2	18.6	77		-	75-125	-	20
Cobalt, Total	2.53	43.1	38.9	84		-	75-125	-	20
Copper, Total	4.32	21.6	23.2	88		-	75-125	-	20
Iron, Total	8020	86.2	7780	0	Q	-	75-125	-	20
Lead, Total	2.51J	45.7	45.4	99		-	75-125	-	20
Magnesium, Total	1220	862	1950	85		-	75-125	-	20
Manganese, Total	187	43.1	251	148	Q	-	75-125	-	20
Nickel, Total	3.79	43.1	40.6	85		-	75-125	-	20
Potassium, Total	517	862	1260	86		-	75-125	-	20
Selenium, Total	ND	10.3	10.3	100		-	75-125	-	20
Silver, Total	ND	25.9	25.5	98		-	75-125	-	20
Sodium, Total	51.2J	862	960	111		-	75-125	-	20
Thallium, Total	ND	10.3	9.49	92		-	75-125	-	20
Vanadium, Total	7.07	43.1	48.3	96		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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): 05-06 QC Batch ID: WG1697810-3 QC Sample: L2256121-05 Client ID: WT2476-05									
Zinc, Total	20.2	43.1	56.3	84	-	-	75-125	-	20

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** LEWIS COUNTY 2022 FACILITIES I**Project Number:** WT2476**Lab Number:** L2256121**Report Date:** 10/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1697771-4 QC Sample: L2256250-01 Client ID: DUP Sample						
Mercury, Total	0.671	1.41	mg/kg	71	Q	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1697810-4 QC Sample: L2256121-05 Client ID: WT2476-05					
Aluminum, Total	2980	2520	mg/kg	17	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	1.52	1.47	mg/kg	3	20
Barium, Total	16.2	14.1	mg/kg	14	20
Beryllium, Total	0.309J	0.253J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	21900	39800	mg/kg	58	Q 20
Chromium, Total	5.31	2.82	mg/kg	61	Q 20
Cobalt, Total	2.53	2.29	mg/kg	10	20
Copper, Total	4.32	2.86	mg/kg	41	Q 20
Iron, Total	8020	7380	mg/kg	8	20
Lead, Total	2.51J	2.56J	mg/kg	NC	20
Magnesium, Total	1220	1210	mg/kg	1	20
Manganese, Total	187	212	mg/kg	13	20
Nickel, Total	3.79	3.31	mg/kg	14	20
Potassium, Total	517	348	mg/kg	39	Q 20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	51.2J	58.8J	mg/kg	NC	20

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L2256121
Report Date: 10/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1697810-4 QC Sample: L2256121-05 Client ID: WT2476-05					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	7.07	6.29	mg/kg	12	20
Zinc, Total	20.2	19.3	mg/kg	5	20

INORGANICS & MISCELLANEOUS

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-01
Client ID: WT2476-01
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:00
Date Received: 10/10/22
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	91.2		%	0.100	NA	1	-	10/11/22 03:40	121,2540G	MA



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-02
Client ID: WT2476-02
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:05
Date Received: 10/10/22
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	91.8		%	0.100	NA	1	-	10/11/22 03:40	121,2540G	MA



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-03
Client ID: WT2476-03
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:10
Date Received: 10/10/22
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	91.9		%	0.100	NA	1	-	10/11/22 03:40	121,2540G	MA



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-04
Client ID: WT2476-04
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:15
Date Received: 10/10/22
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	89.0		%	0.100	NA	1	-	10/11/22 03:40	121,2540G	MA



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-05
Client ID: WT2476-05
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:20
Date Received: 10/10/22
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	90.6		%	0.100	NA	1	-	10/11/22 03:40	121,2540G	MA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	10/11/22 12:55	10/11/22 16:15	1,9010C/9012B	JR



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

SAMPLE RESULTS

Lab ID: L2256121-06
Client ID: WT2476-06
Sample Location: LOWVILLE, NY

Date Collected: 10/07/22 11:30
Date Received: 10/10/22
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	89.6		%	0.100	NA	1	-	10/11/22 03:40	121,2540G	MA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	10/11/22 12:55	10/11/22 16:16	1,9010C/9012B	JR



Project Name: LEWIS COUNTY 2022 FACILITIES I**Lab Number:** L2256121**Project Number:** WT2476**Report Date:** 10/11/22**Method Blank Analysis**
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1697927-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	10/11/22 12:55	10/11/22 15:59	1,9010C/9012B	JR

Lab Control Sample Analysis**Batch Quality Control****Project Name:** LEWIS COUNTY 2022 FACILITIES I**Project Number:** WT2476**Lab Number:** L2256121**Report Date:** 10/11/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1697927-2 WG1697927-3								
Cyanide, Total	55	Q	81		80-120	20		35

Matrix Spike Analysis

Batch Quality Control

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1697927-4 WG1697927-5 QC Sample: L2254445-03 Client ID: MS Sample												
Cyanide, Total	ND	12	13	100		14	110		75-125	7		35

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L2256121
Report Date: 10/11/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1697760-1 QC Sample: L2256121-01 Client ID: WT2476-01						
Solids, Total	91.2	91.0	%	0		20

Project Name: LEWIS COUNTY 2022 FACILITIES I**Lab Number:** L2256121**Project Number:** WT2476**Report Date:** 10/11/22**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(*)
L2256121-01A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2256121-01X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2256121-01Y	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-01Z	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-02A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2256121-02X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2256121-02Y	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-02Z	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-03A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2256121-03X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2256121-03Y	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-03Z	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-04A	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14),TS(7)
L2256121-04X	Vial MeOH preserved split	A	NA		2.2	Y	Absent		NYTCL-8260-R2(14)
L2256121-04Y	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-04Z	Vial Water preserved split	A	NA		2.2	Y	Absent	11-OCT-22 03:57	NYTCL-8260-R2(14)
L2256121-05A	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2256121-05B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2256121-05C	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Serial_No:10112217:41
Lab Number: L2256121
Report Date: 10/11/22

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2256121-06A	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2256121-06B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)
L2256121-06C	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082-PPM(365)

Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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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Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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.)

Report Format: DU Report with 'J' Qualifiers



Project Name: LEWIS COUNTY 2022 FACILITIES I
Project Number: WT2476

Lab Number: L2256121
Report Date: 10/11/22

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

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, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.****EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, 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.

L 2256121

No: 15615



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Project No.		Client Name		QA/QC Code		Parameters					Report Distribution		Custody Seal: X= intact
WT2476		Lewis County		☐ NYSDEC ☐ SW-846 ☐ NYSDOH ☐ CLP ☐ Other		EPA 5260 Plus MTBE	Cyanide	EPA 8061/8052	EPA 8270 BIN	TAT Metals	TAT Required:	☐ 6hr ☐ 12hr ☐ 24hr ☐ 48hr ☐ 72hr ☐ 5day ☐ 10day ☐ Other <u>ASAP</u>	
Page 1 of 1		ATL Project Contact: Dan Faulkenham		Project Location: Lewisville, NY							E-mail Results:	@atlantictesting.com	
Project Name: Lewis County 2022 Facilities Improvement		Sample Type		No. of Containers							Notes		
Date	Time	Field Sample No.	Sample Location	Sample Type	No. of Containers								
10/7/22	11:00	WT2476-01	Northwest Soil Pile	G	1	✓							
10/7/22	11:05	WT2476-02	West Soil Pile	G	1	✓							
10/7/22	11:10	WT2476-03	South East Soil Pile	G	1	✓							
10/7/22	11:15	WT2476-04	East Soil Pile	G	1	✓							
10/7/22	11:20	WT2476-05	Northwest/West Soil Piles	G/C	3		✓	✓	✓	✓			
10/7/22	11:30	WT2476-06	Southeast/East Soil Piles	G/C	3		✓	✓	✓	✓			
Samplers Name: Rick Kuhn Date: 10/7/22 Received for Name: Date: Shipment Rec'd Intact? ☐ YES ☐ NO Samplers Signature: Rick Kuhn Time: 11:00 Laboratory Signature: Time:													
Samples Relinquished By:				Samples Received By:				Sample Type Code Key:				Laboratory Remarks	
Name: Rick Kuhn		Date: 10/10/22		Name: Eric Whalen RAC		Date: 10/10/22		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: Rick Kuhn		Time: 1040		Signature: [Signature]		Time: 1040							
Name: Eric Whalen		Date: 10/10/22		Name: Sharon Hoffman		Date: 10/11/22							
Signature: [Signature]		Time: 1645		Signature: [Signature]		Time: 0020							

ATTACHMENT B

SUMMARY OF LABORATORY RESULTS

Table B-1
Summary of Laboratory Analysis Results - VOC
Lewis County 2022 Facilities Improvements, Lowville, New York
Soil Samples Collected October 7, 2022

Sample Identification	WT2476-01	WT2476-02	WT2476-03	WT2476-04	NYSDEC Unrestricted Use Soil Cleanup Objectives	6 NYCRR Part 360 Fill Material Beneficial Use Criteria		
						General Fill	Restricted-Use Fill	Limited-Use Fill
Sample Date	10-07-2022	10-07-2022	10-07-2022	10-07-2022				
Sample Type	Grab	Grab	Grab	Grab				
Volatile Organic Compounds (ppm)								
All Other Target Compounds	ND	ND	ND	ND	--	---	---	---
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 Unrestricted Use Soil Cleanup Levels were obtained from 6 NYCRR Part 375 (Unrestricted Use Soil Cleanup Objectives) or the NYSDEC Final Commissioner Policy, CP-51, dated October 21, 2010 (most restrictive of available standards for Supplemental Soil Cleanup Objectives). 6 NYCRR Part 360 Fill Material Beneficial Criteria were obtained from the Maximum Contaminant Levels description in Table 2 of 6 NYCRR Part 360.13(f).								

Table B-2
Summary of Laboratory Analysis Results
Lewis County 2022 Facilities Improvements, Lowville, New York
Soil Samples Collected October 7, 2022

Sample Identification	WT2476-05	WT2476-06	NYSDEC Unrestricted Use Soil Cleanup Objectives or Most Restrictive of Supplemental Soil Cleanup Objectives	6 NYCRR Part 360 Fill Material Beneficial Use Criteria		
				General Fill	Restricted- Use Fill	Limited- Use Fill
Sample Date	10-07-2022	10-07-2022				
Sample Type	Composite	Composite				
Semi-VOC (ppm)						
All Target Semi- VOC	ND	ND	--	---	---	---
Pesticides (ppm)						
All Target Pesticides	ND	ND	--	---	---	---
Polychlorinated Biphenyl (ppm)						
Total PCB	ND	ND	0.1	---	---	---
TAL Metals (ppm)						
Silver	ND	ND	2	36	36	36
Aluminum	2,980	1,660	10,000 ²	---	---	---
Arsenic	1.52	0.944	13	16	16	16
Barium	16.2	14.6	350	350	350	400
Beryllium	0.309	0.258	7.2	14	14	590
Calcium	21,900	11,500	10,000 ²	---	---	---
Cadmium	ND	ND	2.5	60	60	60
Cobalt	2.53	0.906	20 ²	30 ²	---	---
Chromium	5.31	2.12	30	---	---	---
Copper	4.32	0.759	50	270	270	270
Iron	8,020	7,880	2,000 ²	---	---	---
Mercury	ND	ND	0.18	0.73	0.73	2.8
Potassium	517	206	--	---	---	---
Magnesium	1,220	720	--	---	---	---
Manganese	187	69.5	1,600	---	---	---
Sodium	51.2	92.2	--	---	---	---
Nickel	3.79	1.20	30	130	130	310
Lead	2.51	1.14	63	---	---	---
Antimony	ND	ND	12 ²	---	---	---
Selenium	ND	ND	3.9	4	4	1,500
Thallium	ND	ND	5 ²	---	---	---
Vanadium	7.07	7.36	39 ²	---	---	---
Zinc	20.2	11.4	109	10,000	10,000	2,200
Cyanide (ppm)						
Total Cyanide	ND	ND	27	27	27	27

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 Unrestricted Use Soil Cleanup Levels were obtained from 6 NYCRR Part 375 (Unrestricted Use Soil Cleanup Objectives) or the NYSDEC Final Commissioner Policy, CP-51, dated October 21, 2010 (most restrictive of available standards for Supplemental Soil Cleanup Objectives).

6 NYCRR Part 360 Fill Material Beneficial Criteria were obtained from the Maximum Contaminant Levels description in Table 2 of 6 NYCRR Part 360.13(f).

Bold value exceeds the NYSDEC Unrestricted Use Soil Cleanup Objectives or most restrictive of Supplemental Soil Cleanup Objectives.