



C&S Companies
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June 21, 2021

Ryan Piche, Lewis County Manager
7660 N. State Street
Lowville, New York 13367

*Re: Soil Sampling Results
7263 East Road, Lowville, NY*

Dear Mr. Piche:

This letter summarizes C&S Engineers, Inc. (C&S) efforts related to soil sampling for the property located at 7263 East Road in Lowville, New York (the Subject Property).

Background

The proposed development consists of a highway garage, a cold storage building and a wash bay. Due to the current and historical use of the property as a Department of Public Works (DPW) highway garage, the geotechnical investigation scope of services included screening of soil and collection of soil samples from the geotechnical borings. The purpose of C&S' efforts was to determine if special soil handling may be required during construction.

Field Activities

Based on the above, C&S observed the advancement of geotechnical soil borings on May 18 and 19, 2021. Borings B-4 and B-7 were advanced while C&S was onsite. Mr. Anthony DiGiovanni, Environmental Scientist with C&S, observed the completion of those geotechnical borings and collected two soil samples from each boring. The borings were completed by CME Associates with a Central Mine Equipment, ATV-mounted rotary exploration rig.

The following significant information and observations are provided concerning field activities:

- A total of five borings (B-1, B-2, B-3, B-4, and B-7) were advanced across the Site by CME as shown on the attached figure.
- Non-native fill was observed in each boring. Generally, the fill consisted of two to four feet of gravel, sand, and silt. Historic fill material (HFM) was limited to cinders in B-1, in the upper four and a half feet.

- Groundwater was present below 20 feet.
- Physically impacted soil ((e.g. petroleum or chemical odors, staining, or detectable photoionization detector (PID) readings)) were not identified.
- Soil samples were collected from B-4 and B-7 and submitted for laboratory analysis for semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals. These soil samples were selected to characterize the fill and native soils at the Site. Noteworthy contaminant detections are discussed below. Soil data summary tables and laboratory analytical data are attached.
- Soil contaminant concentrations were compared to New York State Department of Environmental Conservation (NYSDEC) Part 375 Soil Cleanup Objectives (SCO). Part 375 includes SCOs based on anticipated land usage. Based on our understanding of the proposed project involving the construction of DPW support facilities, contaminant concentrations were compared to Unrestricted Use and Industrial Use SCOs. Soil that meets Unrestricted Use SCOs can be used for any purpose. Soil that meets Industrial Use SCOs is appropriate for facilities with the primary purpose of manufacturing, production, fabrication or assembly processes and ancillary services.
 - o B-7 (0'-3'): Five SVOCs exceed their Industrial Use SCOs.
 - o There were no exceedances at B-4 (0'-4'), B-4 (4'-6'), or B-7 (4'-6').

Conclusion & Recommendations

Soil containing HFM or soil containing contaminants at concentrations greater than Industrial Use SCOs is present in the areas of B-1 (HFM) and B-7 (Industrial Use exceedances).

The type of HFM encountered, as well as the types and concentrations of contaminants identified are typical of developed sites that have been filled to create usable land. Because soil impacts were identified in connection with soil that contained HFM as well as soil that does not contain HFM, all of the Site soils have the potential to contain contaminants at concentrations that exceed the Industrial Use SCOs.

It should be noted that since volatile organic vapors (VOVs) were not detected in the field with a photoionization detector (PID), and there were no physical observations of petroleum or chemical impacts (odors or staining), soil vapor intrusion / indoor air quality for future structures does not appear to pose a concern.

There are a number of options to address the management of the soil / HFM with respect to the proposed usage of the Site for industrial purposes as a DPW facility. They include, but are not limited to:

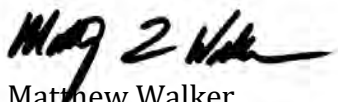
- The Site could be graded in such a way that areas not covered by impervious surfaces / buildings are covered with “clean” cover. Based on the anticipated use of the property for industrial purposes, clean cover would consist of soil that does not contain contaminants at concentrations greater than Industrial Use SCOs. The County could choose to self-impose higher standards for clean cover (e.g. deeper cover depth or “cleaner” cover).
- Soils and fill that must be removed from the Site to accommodate site design / grading could be managed at a regulated solid waste facility consistent with local, state, and federal regulations. Further sampling of stockpiled material would likely be required to satisfy disposal facility requirements.

Regardless of how the soil will be managed, C&S recommends that earth work be performed consistent with best engineering and industry practices.

Thank you for the opportunity to work with you on this Site. Should you have any questions or comments, please do not hesitate to contact us at (315) 455-2000.

Sincerely,

C&S ENGINEERS, INC.



Matthew Walker
Senior Project Environmental Scientist

Enclosures: Soil Boring Location Map
Soil Data Summary Tables and Laboratory Analytical Data

Soil Boring Location Map

CME EXPLORATION LOCATION PLAN ELP-1

Lewis County 2022 Facilities Improvement Project
Lowville, New York

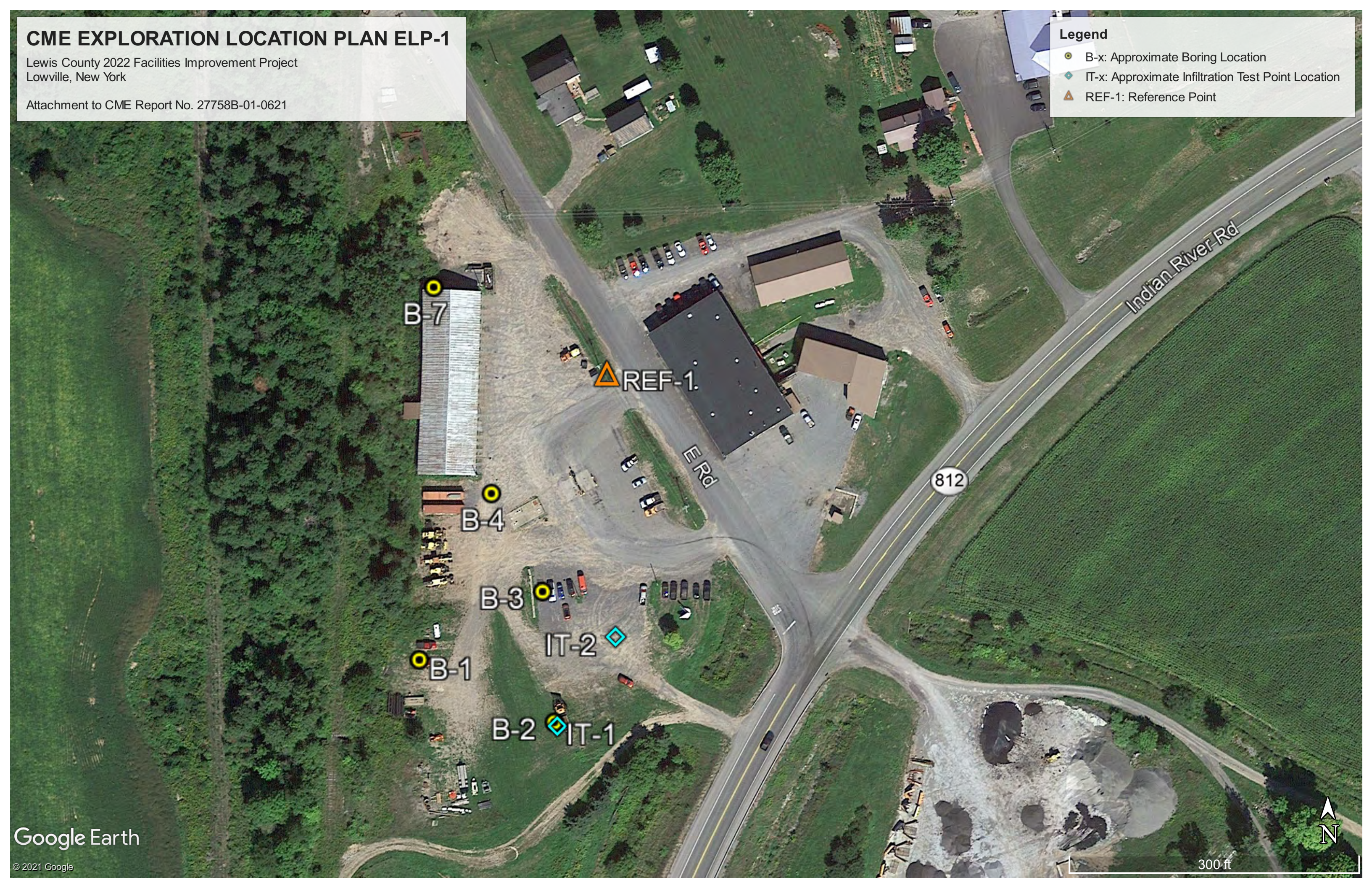
Attachment to CME Report No. 27758B-01-0621

Legend

 B-x: Approximate Boring Location

 IT-x: Approximate Infiltration Test Point Location

 REF-1: Reference Point



Soil Data Summary Tables and Laboratory Analytical Data

Soil Sampling Data Summary
Lewis County
2022 Facilities Improvement Project
Lowville, New York

LOCATION			B-4 (0-4)		B-4 (4-6)		B-7 (0-3)		B-7 (4-6)	
SAMPLING DATE			5/18/2021		5/18/2021		5/18/2021		5/18/2021	
LAB SAMPLE ID			L2126522-01		L2126522-02		L2126522-03		L2126522-04	
SAMPLE TYPE			SOIL		SOIL		SOIL		SOIL	
SAMPLE DEPTH (ft.)			0'-4'		4'-6'		0'-3'		4'-6'	
	Unrestricted SCO	Industrial SCO	Results	Qual	Results	Qual	Results	Qual	Results	Qual
Semivolatile Organics by GC/MS										
Acenaphthene	20	1000					0.26 J			
Acenaphthylene	100	1000					5.3		0.082 J	
Anthracene	100	1000					4.1		0.057 J	
Benzo(a)anthracene	1	11					16		0.24	
Benzo(a)pyrene	1	1.1					17		0.23	
Benzo(b)fluoranthene	1	11					18		0.28	
Benzo(ghi)perylene	100	1000					11		0.14	
Benzo(k)fluoranthene	0.8	110					8.8		0.1	
Carbazole							0.24 J			
Chrysene	1	110					15		0.22	
Dibenzo(a,h)anthracene	0.33	1.1					2.4		0.028 J	
Dibenzofuran	7	1000					0.22 J			
Fluoranthene	100	1000					31		0.57	
Fluorene	30	1000					0.93 J			
Indeno(1,2,3-cd)pyrene	0.5	11					12		0.16	
Naphthalene	12	1000			0.039 J		0.25 J			
Phenanthrene	100	1000					12		0.18	
Pyrene	100	1000					26		0.48	
Polychlorinated Biphenyls by GC										
Total Metals										
Arsenic, Total	13	16	1.15		3.61		1.35		1.56	
Barium, Total	350	10000	17.6		136		24.6		55.8	
Beryllium, Total	7.2	2700	0.215		1.23 J		0.188 J		0.457	
Cadmium, Total	2.5	60	0.152 J		0.55 J		0.192 J		0.203 J	
Chromium, Total			6.51		10		3.49		5.02	
Chromium, Hexavalent	1	800	0.39 J							
Chromium, Trivalent	30	6800	6.1 J		10		3.5		5	
Copper, Total	50	10000	2.39		9.55		3.17		4.51	
Cyanide, Total	27	10000	0.65 J							
Lead, Total	63	3900	2.27		7.33 J		4.55		3.35 J	
Manganese, Total	1600	10000	146		680		114		279	
Nickel, Total	30	10000	1.95		10.7		2.59		4.23	
Selenium, Total	3.9	6800					0.149 J			
Zinc, Total	109	10000	24.6		75.9		50.4		30.2	

Notes:

Results and soil cleanup objectives (SCO) in mg/kg

Only analytes detected at concentrations greater than laboratory detections limits are shown

Analytical data compared to NYSDEC Part 375-6

Highlighted color indicates the respective use SCO(s) exceeded. Use type SCOs are listed from left to right from most restrictive to least restrictive.

Blank space indicates that a SCO does not exist

"J" indicates estimated concentration



ANALYTICAL REPORT

Lab Number:	L2126522
Client:	C&S Companies 499 Col. Eileen Collins Blvd. Syracuse, NY 13212
ATTN:	Matthew Walker
Phone:	(315) 455-2000
Project Name:	2022 FACILITIES IMP. PRJCT.
Project Number:	564.015.001
Report Date:	06/10/21

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: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2126522-01	B-4 (0-4)	SOIL	LOWVILLE, NY	05/18/21 15:45	05/19/21
L2126522-02	B-4 (4-6)	SOIL	LOWVILLE, NY	05/18/21 15:45	05/19/21
L2126522-03	B-7 (0-3)	SOIL	LOWVILLE, NY	05/18/21 15:45	05/19/21
L2126522-04	B-7 (4-6)	SOIL	LOWVILLE, NY	05/18/21 15:45	05/19/21

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

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: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

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.

Semivolatile Organics

L2126522-03D: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L2126522-02 and -04: 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.

Cyanide, Total

The WG1504726-2/-3 LCS/LCSD recoveries for cyanide, total (57%/58%), associated with L2126522-01 through -04, are 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:

 Cristin Walker

Title: Technical Director/Representative

Date: 06/10/21

ORGANICS

SEMIVOLATILES

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-01
 Client ID: B-4 (0-4)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/03/21 19:46
 Analyst: WR
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 05/30/21 18:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	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
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	26.	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
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

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-01
 Client ID: B-4 (0-4)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	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	42.	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
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-01

Date Collected: 05/18/21 15:45

Client ID: B-4 (0-4)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	105		10-120
Nitrobenzene-d5	112		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	119		10-136
4-Terphenyl-d14	103		18-120

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-02
 Client ID: B-4 (4-6)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/02/21 20:13
 Analyst: JRW
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 05/30/21 18:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	39.	1
Fluoranthene	ND		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	23.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	39	J	ug/kg	220	28.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	77.	1
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	ND		ug/kg	140	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-02
 Client ID: B-4 (4-6)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	140	38.	1
Benzo(k)fluoranthene	ND		ug/kg	140	36.	1
Chrysene	ND		ug/kg	140	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	140	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	44.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	24.	1
Acetophenone	ND		ug/kg	220	28.	1
2,4,6-Trichlorophenol	ND		ug/kg	140	43.	1
p-Chloro-m-cresol	ND		ug/kg	220	34.	1
2-Chlorophenol	ND		ug/kg	220	27.	1
2,4-Dichlorophenol	ND		ug/kg	200	36.	1
2,4-Dimethylphenol	ND		ug/kg	220	74.	1
2-Nitrophenol	ND		ug/kg	490	85.	1
4-Nitrophenol	ND		ug/kg	320	92.	1
2,4-Dinitrophenol	ND		ug/kg	1100	100	1
4,6-Dinitro-o-cresol	ND		ug/kg	590	110	1
Pentachlorophenol	ND		ug/kg	180	50.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	35.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	43.	1
Carbazole	ND		ug/kg	220	22.	1
Atrazine	ND		ug/kg	180	79.	1
Benzaldehyde	ND		ug/kg	300	61.	1

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-02

Date Collected: 05/18/21 15:45

Client ID: B-4 (4-6)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	220	69.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	220	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	83		18-120

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-03 D

Date Collected: 05/18/21 15:45

Client ID: B-7 (0-3)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 05/30/21 18:51

Analytical Date: 06/09/21 11:52

Analyst: SZ

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	260	J	ug/kg	1400	180	10
Hexachlorobenzene	ND		ug/kg	1100	200	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	240	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	470	10
2,4-Dinitrotoluene	ND		ug/kg	1800	350	10
2,6-Dinitrotoluene	ND		ug/kg	1800	300	10
Fluoranthene	31000		ug/kg	1100	200	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	190	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	270	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2100	300	10
Bis(2-chloroethoxy)methane	ND		ug/kg	1900	180	10
Hexachlorobutadiene	ND		ug/kg	1800	260	10
Hexachlorocyclopentadiene	ND		ug/kg	5000	1600	10
Hexachloroethane	ND		ug/kg	1400	280	10
Isophorone	ND		ug/kg	1600	230	10
Naphthalene	250	J	ug/kg	1800	220	10
Nitrobenzene	ND		ug/kg	1600	260	10
NDPA/DPA	ND		ug/kg	1400	200	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	270	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	610	10
Butyl benzyl phthalate	ND		ug/kg	1800	440	10
Di-n-butylphthalate	ND		ug/kg	1800	340	10
Di-n-octylphthalate	ND		ug/kg	1800	600	10
Diethyl phthalate	ND		ug/kg	1800	160	10
Dimethyl phthalate	ND		ug/kg	1800	370	10
Benzo(a)anthracene	16000		ug/kg	1100	200	10
Benzo(a)pyrene	17000		ug/kg	1400	430	10

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-03 D

Date Collected: 05/18/21 15:45

Client ID: B-7 (0-3)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	18000		ug/kg	1100	300	10
Benzo(k)fluoranthene	8800		ug/kg	1100	280	10
Chrysene	15000		ug/kg	1100	180	10
Acenaphthylene	5300		ug/kg	1400	270	10
Anthracene	4100		ug/kg	1100	340	10
Benzo(ghi)perylene	11000		ug/kg	1400	210	10
Fluorene	930	J	ug/kg	1800	170	10
Phenanthrene	12000		ug/kg	1100	210	10
Dibenzo(a,h)anthracene	2400		ug/kg	1100	200	10
Indeno(1,2,3-cd)pyrene	12000		ug/kg	1400	250	10
Pyrene	26000		ug/kg	1100	180	10
Biphenyl	ND		ug/kg	4000	410	10
4-Chloroaniline	ND		ug/kg	1800	320	10
2-Nitroaniline	ND		ug/kg	1800	340	10
3-Nitroaniline	ND		ug/kg	1800	330	10
4-Nitroaniline	ND		ug/kg	1800	730	10
Dibenzofuran	220	J	ug/kg	1800	170	10
2-Methylnaphthalene	ND		ug/kg	2100	210	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	180	10
Acetophenone	ND		ug/kg	1800	220	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	340	10
p-Chloro-m-cresol	ND		ug/kg	1800	260	10
2-Chlorophenol	ND		ug/kg	1800	210	10
2,4-Dichlorophenol	ND		ug/kg	1600	280	10
2,4-Dimethylphenol	ND		ug/kg	1800	580	10
2-Nitrophenol	ND		ug/kg	3800	660	10
4-Nitrophenol	ND		ug/kg	2500	720	10
2,4-Dinitrophenol	ND		ug/kg	8500	820	10
4,6-Dinitro-o-cresol	ND		ug/kg	4600	850	10
Pentachlorophenol	ND		ug/kg	1400	390	10
Phenol	ND		ug/kg	1800	270	10
2-Methylphenol	ND		ug/kg	1800	270	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2500	280	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	340	10
Carbazole	240	J	ug/kg	1800	170	10
Atrazine	ND		ug/kg	1400	620	10
Benzaldehyde	ND		ug/kg	2300	480	10

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-03 D

Date Collected: 05/18/21 15:45

Client ID: B-7 (0-3)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	1800	540	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1800	360	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	81		18-120

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-04
 Client ID: B-7 (4-6)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/04/21 17:03
 Analyst: SLR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 05/30/21 18:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	570		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	240		ug/kg	100	20.	1
Benzo(a)pyrene	230		ug/kg	140	43.	1

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-04
Client ID: B-7 (4-6)
Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	280		ug/kg	100	29.	1
Benzo(k)fluoranthene	100		ug/kg	100	28.	1
Chrysene	220		ug/kg	100	18.	1
Acenaphthylene	82	J	ug/kg	140	27.	1
Anthracene	57	J	ug/kg	100	34.	1
Benzo(ghi)perylene	140		ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	180		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	140	24.	1
Pyrene	480		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-04

Date Collected: 05/18/21 15:45

Client ID: B-7 (4-6)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	100		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	89		18-120

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 10:49
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/30/21 18:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1505596-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 10:49
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/30/21 18:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1505596-1					
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/21 10:49
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/30/21 18:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1505596-1					
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Carbazole	ND		ug/kg	170	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	170	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	100		25-120
Phenol-d6	102		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1505596-2 WG1505596-3								
Acenaphthene	85		94		31-137	10		50
Hexachlorobenzene	73		82		40-140	12		50
Bis(2-chloroethyl)ether	80		88		40-140	10		50
2-Chloronaphthalene	83		90		40-140	8		50
3,3'-Dichlorobenzidine	68		75		40-140	10		50
2,4-Dinitrotoluene	84		90		40-132	7		50
2,6-Dinitrotoluene	84		91		40-140	8		50
Fluoranthene	86		95		40-140	10		50
4-Chlorophenyl phenyl ether	74		83		40-140	11		50
4-Bromophenyl phenyl ether	73		82		40-140	12		50
Bis(2-chloroisopropyl)ether	77		84		40-140	9		50
Bis(2-chloroethoxy)methane	80		86		40-117	7		50
Hexachlorobutadiene	65		74		40-140	13		50
Hexachlorocyclopentadiene	62		71		40-140	14		50
Hexachloroethane	79		86		40-140	8		50
Isophorone	80		86		40-140	7		50
Naphthalene	84		93		40-140	10		50
Nitrobenzene	82		90		40-140	9		50
NDPA/DPA	85		94		36-157	10		50
n-Nitrosodi-n-propylamine	80		86		32-121	7		50
Bis(2-ethylhexyl)phthalate	86		98		40-140	13		50
Butyl benzyl phthalate	86		97		40-140	12		50
Di-n-butylphthalate	86		97		40-140	12		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1505596-2 WG1505596-3								
Di-n-octylphthalate	85		95		40-140	11		50
Diethyl phthalate	82		91		40-140	10		50
Dimethyl phthalate	82		89		40-140	8		50
Benzo(a)anthracene	80		90		40-140	12		50
Benzo(a)pyrene	88		99		40-140	12		50
Benzo(b)fluoranthene	82		90		40-140	9		50
Benzo(k)fluoranthene	87		100		40-140	14		50
Chrysene	83		93		40-140	11		50
Acenaphthylene	84		91		40-140	8		50
Anthracene	90		100		40-140	11		50
Benzo(ghi)perylene	87		98		40-140	12		50
Fluorene	86		94		40-140	9		50
Phenanthrene	86		96		40-140	11		50
Dibenzo(a,h)anthracene	89		99		40-140	11		50
Indeno(1,2,3-cd)pyrene	90		96		40-140	6		50
Pyrene	85		95		35-142	11		50
Biphenyl	86		94		37-127	9		50
4-Chloroaniline	75		70		40-140	7		50
2-Nitroaniline	87		93		47-134	7		50
3-Nitroaniline	79		85		26-129	7		50
4-Nitroaniline	81		90		41-125	11		50
Dibenzofuran	84		92		40-140	9		50
2-Methylnaphthalene	85		93		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1505596-2 WG1505596-3								
1,2,4,5-Tetrachlorobenzene	70		79		40-117	12		50
Acetophenone	86		93		14-144	8		50
2,4,6-Trichlorophenol	78		85		30-130	9		50
p-Chloro-m-cresol	88		95		26-103	8		50
2-Chlorophenol	90		97		25-102	7		50
2,4-Dichlorophenol	92		98		30-130	6		50
2,4-Dimethylphenol	89		95		30-130	7		50
2-Nitrophenol	87		93		30-130	7		50
4-Nitrophenol	68		76		11-114	11		50
2,4-Dinitrophenol	58		60		4-130	3		50
4,6-Dinitro-o-cresol	71		80		10-130	12		50
Pentachlorophenol	66		72		17-109	9		50
Phenol	92	Q	99	Q	26-90	7		50
2-Methylphenol	92		100		30-130.	8		50
3-Methylphenol/4-Methylphenol	90		98		30-130	9		50
2,4,5-Trichlorophenol	81		88		30-130	8		50
Carbazole	92		103		54-128	11		50
Atrazine	85		94		40-140	10		50
Benzaldehyde	76		86		40-140	12		50
Caprolactam	80		86		15-130	7		50
2,3,4,6-Tetrachlorophenol	72		79		40-140	9		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1505596-2 WG1505596-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		97		25-120
Phenol-d6	90		98		10-120
Nitrobenzene-d5	82		90		23-120
2-Fluorobiphenyl	82		89		30-120
2,4,6-Tribromophenol	75		84		10-136
4-Terphenyl-d14	79		87		18-120

PCBS

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-01
Client ID: B-4 (0-4)
Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 14:35
Analyst: AWS
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 16:49
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	3.20	1	A
Aroclor 1221	ND		ug/kg	36.0	3.61	1	A
Aroclor 1232	ND		ug/kg	36.0	7.63	1	A
Aroclor 1242	ND		ug/kg	36.0	4.85	1	A
Aroclor 1248	ND		ug/kg	36.0	5.40	1	A
Aroclor 1254	ND		ug/kg	36.0	3.94	1	A
Aroclor 1260	ND		ug/kg	36.0	6.65	1	B
Aroclor 1262	ND		ug/kg	36.0	4.57	1	A
Aroclor 1268	ND		ug/kg	36.0	3.73	1	A
PCBs, Total	ND		ug/kg	36.0	3.20	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-02
 Client ID: B-4 (4-6)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/31/21 14:44
 Analyst: AWS
 Percent Solids: 72%

Extraction Method: EPA 3546
 Extraction Date: 05/30/21 16:49
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/31/21
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.2	3.92	1	A
Aroclor 1221	ND		ug/kg	44.2	4.42	1	A
Aroclor 1232	ND		ug/kg	44.2	9.36	1	A
Aroclor 1242	ND		ug/kg	44.2	5.95	1	A
Aroclor 1248	ND		ug/kg	44.2	6.62	1	A
Aroclor 1254	ND		ug/kg	44.2	4.83	1	A
Aroclor 1260	ND		ug/kg	44.2	8.16	1	A
Aroclor 1262	ND		ug/kg	44.2	5.61	1	A
Aroclor 1268	ND		ug/kg	44.2	4.58	1	A
PCBs, Total	ND		ug/kg	44.2	3.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-03
 Client ID: B-7 (0-3)
 Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
 Date Received: 05/19/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 05/31/21 14:52
 Analyst: AWS
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 05/30/21 16:49
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/31/21
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.04	1	A
Aroclor 1221	ND		ug/kg	34.2	3.43	1	A
Aroclor 1232	ND		ug/kg	34.2	7.25	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.13	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.32	1	A
Aroclor 1262	ND		ug/kg	34.2	4.34	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	ND		ug/kg	34.2	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-04
Client ID: B-7 (4-6)
Sample Location: LOWVILLE, NY

Date Collected: 05/18/21 15:45
Date Received: 05/19/21
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/31/21 15:00
Analyst: AWS
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/30/21 16:49
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.3	3.05	1	A
Aroclor 1221	ND		ug/kg	34.3	3.44	1	A
Aroclor 1232	ND		ug/kg	34.3	7.28	1	A
Aroclor 1242	ND		ug/kg	34.3	4.63	1	A
Aroclor 1248	ND		ug/kg	34.3	5.15	1	A
Aroclor 1254	ND		ug/kg	34.3	3.75	1	A
Aroclor 1260	ND		ug/kg	34.3	6.34	1	A
Aroclor 1262	ND		ug/kg	34.3	4.36	1	A
Aroclor 1268	ND		ug/kg	34.3	3.56	1	A
PCBs, Total	ND		ug/kg	34.3	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/31/21 09:48
Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 05/29/21 21:33
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/21
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/21

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1505427-1						
Aroclor 1016	ND		ug/kg	31.3	2.78	A
Aroclor 1221	ND		ug/kg	31.3	3.14	A
Aroclor 1232	ND		ug/kg	31.3	6.64	A
Aroclor 1242	ND		ug/kg	31.3	4.22	A
Aroclor 1248	ND		ug/kg	31.3	4.70	A
Aroclor 1254	ND		ug/kg	31.3	3.42	A
Aroclor 1262	ND		ug/kg	31.3	3.98	A
Aroclor 1268	ND		ug/kg	31.3	3.24	A
Aroclor 1260	ND		ug/kg	31.3	5.78	B
PCBs, Total	ND		ug/kg	31.3	2.78	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	55		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1505427-2 WG1505427-3									
Aroclor 1016	90		87		40-140	3		50	A
Aroclor 1260	95		92		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		73		30-150	A
Decachlorobiphenyl	78		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		79		30-150	B
Decachlorobiphenyl	65		65		30-150	B

METALS

Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-01

Date Collected: 05/18/21 15:45

Client ID: B-4 (0-4)

Date Received: 05/19/21

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											
Arsenic, Total	1.15		mg/kg	0.422	0.088	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Barium, Total	17.6		mg/kg	0.422	0.073	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Beryllium, Total	0.215		mg/kg	0.211	0.014	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Cadmium, Total	0.152	J	mg/kg	0.422	0.041	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Chromium, Total	6.51		mg/kg	0.422	0.041	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Copper, Total	2.39		mg/kg	0.422	0.109	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Lead, Total	2.27		mg/kg	2.11	0.113	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Manganese, Total	146		mg/kg	0.422	0.067	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.071	0.047	1	06/04/21 23:19	06/10/21 14:20	EPA 7471B	1,7471B	OU
Nickel, Total	1.95		mg/kg	1.05	0.102	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	0.844	0.109	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.422	0.119	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
Zinc, Total	24.6		mg/kg	2.11	0.124	1	06/04/21 22:30	06/07/21 21:25	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.1	J	mg/kg	0.89	0.89	1		06/07/21 21:25	NA	107,-	



Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-02

Date Collected: 05/18/21 15:45

Client ID: B-4 (4-6)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.61		mg/kg	2.62	0.544	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Barium, Total	136		mg/kg	2.62	0.455	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Beryllium, Total	1.23	J	mg/kg	1.31	0.086	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Cadmium, Total	0.550	J	mg/kg	2.62	0.256	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Chromium, Total	10.0		mg/kg	2.62	0.251	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Copper, Total	9.55		mg/kg	2.62	0.675	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Lead, Total	7.33	J	mg/kg	13.1	0.702	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Manganese, Total	680		mg/kg	2.62	0.416	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.092	0.060	1	06/04/21 23:19	06/10/21 14:23	EPA 7471B	1,7471B	OU
Nickel, Total	10.7		mg/kg	6.54	0.633	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	5.24	0.675	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	2.62	0.741	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
Zinc, Total	75.9		mg/kg	13.1	0.767	5	06/04/21 22:30	06/08/21 00:50	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	2.6	2.6	1		06/08/21 00:50	NA	107,-	



Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-03

Date Collected: 05/18/21 15:45

Client ID: B-7 (0-3)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.35		mg/kg	0.427	0.089	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Barium, Total	24.6		mg/kg	0.427	0.074	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Beryllium, Total	0.188	J	mg/kg	0.213	0.014	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Cadmium, Total	0.192	J	mg/kg	0.427	0.042	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Chromium, Total	3.49		mg/kg	0.427	0.041	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Copper, Total	3.17		mg/kg	0.427	0.110	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Lead, Total	4.55		mg/kg	2.13	0.114	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Manganese, Total	114		mg/kg	0.427	0.068	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.072	0.047	1	06/04/21 23:19	06/10/21 14:26	EPA 7471B	1,7471B	OU
Nickel, Total	2.59		mg/kg	1.07	0.103	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Selenium, Total	0.149	J	mg/kg	0.854	0.110	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.427	0.121	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
Zinc, Total	50.4		mg/kg	2.13	0.125	1	06/04/21 22:30	06/07/21 21:34	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	3.5		mg/kg	0.86	0.87	1		06/07/21 21:34	NA	107,-	



Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**SAMPLE RESULTS**

Lab ID: L2126522-04

Date Collected: 05/18/21 15:45

Client ID: B-7 (4-6)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.56		mg/kg	0.846	0.176	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Barium, Total	55.8		mg/kg	0.846	0.147	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Beryllium, Total	0.457		mg/kg	0.423	0.028	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Cadmium, Total	0.203	J	mg/kg	0.846	0.083	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Chromium, Total	5.02		mg/kg	0.846	0.081	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Copper, Total	4.51		mg/kg	0.846	0.218	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Lead, Total	3.35	J	mg/kg	4.23	0.227	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Manganese, Total	279		mg/kg	0.846	0.134	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.074	0.048	1	06/04/21 23:19	06/10/21 14:30	EPA 7471B	1,7471B	OU
Nickel, Total	4.23		mg/kg	2.11	0.205	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.69	0.218	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.846	0.239	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
Zinc, Total	30.2		mg/kg	4.23	0.248	2	06/04/21 22:30	06/08/21 01:08	EPA 3050B	1,6010D	BV
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.0		mg/kg	0.86	0.87	1		06/08/21 01:08	NA	107,-	



Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1507316-1									
Arsenic, Total	ND	mg/kg	0.400	0.083	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Barium, Total	ND	mg/kg	0.400	0.070	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Beryllium, Total	ND	mg/kg	0.200	0.013	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Cadmium, Total	ND	mg/kg	0.400	0.039	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Chromium, Total	ND	mg/kg	0.400	0.038	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Copper, Total	ND	mg/kg	0.400	0.103	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Lead, Total	ND	mg/kg	2.00	0.107	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Manganese, Total	ND	mg/kg	0.400	0.064	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Nickel, Total	ND	mg/kg	1.00	0.097	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Selenium, Total	ND	mg/kg	0.800	0.103	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Silver, Total	ND	mg/kg	0.400	0.113	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV
Zinc, Total	ND	mg/kg	2.00	0.117	1	06/04/21 22:30	06/07/21 16:58	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1507319-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	06/04/21 23:19	06/10/21 13:14	1,7471B	OU

Prep Information

Digestion Method: EPA 7471B



Lab Control Sample Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Project Number: 564.015.001

Lab Number: L2126522

Report Date: 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1507316-2 SRM Lot Number: D109-540								
Arsenic, Total	90		-		70-130	-		
Barium, Total	84		-		75-125	-		
Beryllium, Total	100		-		75-125	-		
Cadmium, Total	111		-		75-125	-		
Chromium, Total	93		-		70-130	-		
Copper, Total	87		-		75-125	-		
Lead, Total	82		-		72-128	-		
Manganese, Total	85		-		74-126	-		
Nickel, Total	106		-		70-130	-		
Selenium, Total	99		-		68-132	-		
Silver, Total	82		-		68-131	-		
Zinc, Total	86		-		70-130	-		
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1507319-2 SRM Lot Number: D109-540								
Mercury, Total	80		-		60-140	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1507316-3 WG1507316-4 QC Sample: L2126398-05 Client ID: MS Sample												
Arsenic, Total	2.73	10.3	11.0	80		12.7	97		75-125	14		20
Barium, Total	42.8	172	180	80		198	90		75-125	10		20
Beryllium, Total	0.338J	4.29	3.88	90		4.14	96		75-125	6		20
Cadmium, Total	0.711J	4.37	4.38	100		4.66	106		75-125	6		20
Chromium, Total	18.0	17.2	28.2	59	Q	33.7	92		75-125	18		20
Copper, Total	15.4	21.4	32.2	78		35.5	94		75-125	10		20
Lead, Total	16.0	43.7	42.6	61	Q	54.0	87		75-125	24	Q	20
Manganese, Total	254	42.9	206	0	Q	255	2	Q	75-125	21	Q	20
Nickel, Total	13.3	42.9	46.3	77		49.8	85		75-125	7		20
Selenium, Total	ND	10.3	8.71	85		9.39	91		75-125	8		20
Silver, Total	ND	4.29	3.73	84		3.82	90		75-125	2		20
Zinc, Total	46.8	42.9	71.1	57	Q	87.9	96		75-125	21	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1507319-3 WG1507319-4 QC Sample: L2126398-05 Client ID: MS Sample												
Mercury, Total	ND	0.156	0.326	209	Q	0.198	130	Q	80-120	49	Q	20

INORGANICS & MISCELLANEOUS

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-01

Date Collected: 05/18/21 15:45

Client ID: B-4 (0-4)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	05/25/21 11:06	121,2540G	RI
Cyanide, Total	0.65	J	mg/kg	1.0	0.22	1	05/28/21 11:45	05/28/21 14:57	1,9010C/9012B	CR
Chromium, Hexavalent	0.390	J	mg/kg	0.891	0.178	1	06/02/21 13:41	06/03/21 19:03	1,7196A	PB



Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-02

Date Collected: 05/18/21 15:45

Client ID: B-4 (4-6)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.7		%	0.100	NA	1	-	05/25/21 11:06	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	05/28/21 11:45	05/28/21 14:58	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	1.12	0.223	1	06/02/21 13:41	06/03/21 19:04	1,7196A	PB



Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-03

Date Collected: 05/18/21 15:45

Client ID: B-7 (0-3)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	05/25/21 11:06	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/28/21 11:45	05/28/21 14:59	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.865	0.173	1	06/02/21 13:41	06/03/21 19:04	1,7196A	PB



Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

SAMPLE RESULTS

Lab ID: L2126522-04

Date Collected: 05/18/21 15:45

Client ID: B-7 (4-6)

Date Received: 05/19/21

Sample Location: LOWVILLE, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	05/25/21 11:06	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/28/21 11:45	05/28/21 15:00	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.865	0.173	1	06/02/21 13:41	06/03/21 19:04	1,7196A	PB



Project Name: 2022 FACILITIES IMP. PRJCT.**Lab Number:** L2126522**Project Number:** 564.015.001**Report Date:** 06/10/21**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): 01-04 Batch: WG1504726-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	05/28/21 11:45	05/28/21 14:43	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1506542-1										
Chromium, Hexavalent	0.260	J	mg/kg	0.800	0.160	1	06/02/21 13:41	06/03/21 18:48	1,7196A	PB



Lab Control Sample Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Project Number: 564.015.001

Lab Number: L2126522

Report Date: 06/10/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1504726-2 WG1504726-3								
Cyanide, Total	57	Q	58	Q	80-120	4		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1506542-2								
Chromium, Hexavalent	88		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Lab Number: L2126522

Project Number: 564.015.001

Report Date: 06/10/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1504726-4 WG1504726-5 QC Sample: L2126244-23 Client ID: MS Sample

Cyanide, Total	ND	11	10	94		10	92		75-125	0		35
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General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1506542-4 QC Sample: L2126522-01 Client ID: B-4 (0-4)

Chromium, Hexavalent	0.390J	932	1040	112		-	-		75-125	-		20
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Lab Duplicate Analysis

Batch Quality Control

Project Name: 2022 FACILITIES IMP. PRJCT.

Project Number: 564.015.001

Lab Number: L2126522

Report Date: 06/10/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1503280-1 QC Sample: L2127408-01 Client ID: DUP Sample						
Solids, Total	89.6	89.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1506542-6 QC Sample: L2126522-01 Client ID: B-4 (0-4)						
Chromium, Hexavalent	0.390J	ND	mg/kg	NC		20

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Serial_No: 06102115:33
Lab Number: L2126522
Report Date: 06/10/21

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(*)
L2126522-01A	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2126522-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2126522-01C	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8082(365),HEXCR-7196(30)
L2126522-02A	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2126522-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2126522-02C	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8082(365),HEXCR-7196(30)
L2126522-03A	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2126522-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2126522-03C	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),NYTCL-8082(365),HEXCR-7196(30)
L2126522-04A	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L2126522-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2126522-04C	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8082(365),HEXCR-7196(30)

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

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: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

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.

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'.

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 at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

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.)

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 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

Data Qualifiers

- 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.

Project Name: 2022 FACILITIES IMP. PRJCT.
Project Number: 564.015.001

Lab Number: L2126522
Report Date: 06/10/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 107 Alpha Analytical - In-house calculation method.
- 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

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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, SM4500Cl-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.

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 5/20/21		ALPHA Job # L212022			
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>2022 Facilities Improvement Project</u> Project Location: <u>Lewville, NY</u> Project # <u>564.015.001</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #	
Client Information Client: <u>C+S Engineers</u> Address: <u>495 Col. Eiken Collins Blvd</u> <u>Syracuse, NY, 13212</u> Phone: <u>(315) 455-2000</u> Fax: XXXXXXXXXX Email: <u>mwalker@cses.com</u>		Project Manager: <u>Matthew Walker</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:			
These samples have been previously analyzed by Alpha ☐						ANALYSIS				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)	
Other project specific requirements/comments:						TS NY TCL SW_{0.5} - EPA 8170D TCL PCB₂ - EPA 8082A NY Part 375 Total Metals				Sample Specific Comments	
Please specify Metals or TAL.											
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials			
26522-01		B-4 (0-4)		5/18/21 15:45		Soil		ACD		X X X X	
-02		B-4 (4-6)		5/18/21 15:50		Soil		ACD		X X X X	
-03		B-7 (0-3)		5/19/21 10:00		Soil		ACD		X X X X	
-04		B-7 (4-6)		5/19/21 10:20		Soil		ACD		X X X X	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MAQ15		Container Type Preservative		P A A A A A A A			
						Relinquished By:		Date/Time		Received By:	
						Arthur D. [Signature]		5/19/21 1340		M. [Signature]	
						[Signature]		5/19/21 1340		[Signature]	
										Date/Time 5/19/21 1340	
										S. [Signature]	
										S. [Signature]	

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved, BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)