

February 2, 2024

Mr. Alvin Montana II
Plant Superintendent
Herkimer County Sewer District
106 West Main Street
P.O. Box 361
Mohawk, New York 13407-0361

RE: 2023 Leachate Sampling Report
Corteva Ferdula Landfill
Frankfort, New York

Dear Mr. Montana:

On behalf Corteva Agriscience™ (Corteva), Parsons is pleased to provide you with the 2023 Leachate Sampling Report for the Ferdula Landfill located in Frankfort, New York. This report fulfills the requirements specified in Waste Generator Permit G-21 (Issued: January 1, 2017) issued to DuPont (now known as Corteva, as per the correspondence letter dated October 24th, 2019) by Herkimer County Sewer District (HCSD) for the Ferdula Landfill. This letter report documents field activities and presents leachate analytical results.

FIELD ACTIVITIES

On October 12, 2023, Parsons collected water samples (one regular sample, one duplicate sample, one matrix spike sample, and one matrix spike duplicate sample) from the landfill's leachate collection system in accordance with the permit requirements.

The samples were collected from the alternate HCSD approved leachate discharge point located within a manhole situated along the north edge of the property and downgradient of the landfill (see location "A" on the attached figure provided in Attachment 1). Samples were collected using a peristaltic pump with dedicated polyurethane and silicon tubing. Any excess leachate water collected during sampling activities was poured back into the leachate system after sampling activities were performed.

Immediately following collection, samples were packed on ice in coolers that were secured and shipped with accompanying chain-of-custody forms to Alpha Analytical (Alpha) in Westborough, Massachusetts and Mansfield, Massachusetts. Alpha has been certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Approved Program (ELAP).

Samples collected on October 12, 2023 were analyzed by Alpha for amenable cyanide by Environmental Protection Agency (EPA) Method 9010C, cyanide by Standard Method (SM) 20 9012B, metals by EPA Method 6020B, oil and grease by EPA Method 1664B, sulfide by EPA Method 4500-S2 D-2000 (by Eurofins Environment Testing laboratory in Barberton, Ohio), GS/MS semi-volatiles by EPA Method 8270D, total suspended solids by EPA Method 2540D-1997, pH by EPA Method 9040C, GS/MS volatiles by EPA Method 8260C, biochemical oxygen demand (BOD) by EPA Method 5210-B-2011, mercury by EPA Method 1631E, and phenolics by EPA Method 420.1.

During leachate sample collection, leachate flow was also measured at the same location from which leachate water samples were collected. Leachate flow was measured at a rate of approximately 1.0 gallons per minute.

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LEACHATE SAMPLE ANALYTICAL RESULTS

Analytical results indicated that all monitored discharge parameters were below the requirements outlined in HCSD Permit G-021.

All sample results are provided in the attached Table 1, and a copy of analytical laboratory data report from Alpha Analytical with corresponding chain-of-custodies and ADQM on Data Review Narrative for samples is provided in Attachment 2.

In accordance with HCSD Generator Permit G-021, collection of the next round of leachate samples is scheduled during the third to fourth quarter of 2024 (August to September 2024 timeframe).

Parsons looks forward to your favorable review of this report. If you have any questions or require additional information, please call me at (513) 552-7009 (office) or (513) 368-9213 (cell).

Sincerely,



Eric Mysona

Eric Mysona, PG
Project Manager

Attachments (Table 1, and Attachments 1 and 2)

cc: Mr. Patrick Pagano – NYSDEC, Region 6
Project File: 453675



TABLES

Table 1
2023 Leachate Analytical Data Summary Table
October 2023
Corteva Ferdula Landfill
Frankfort, New York



Field Sample ID				Ferdula_HCSD Effluent Daily Criteria ⁽¹⁾	EF2023-LEACHATE-D	EF2023-LEACHATE
Location ID					LEACHATE	LEACHATE
Sample Date					10/12/2023	10/12/2023
Sample Matrix					Liquid	Liquid
Sample Purpose					DUP	FS
Sample Type					Leachate	Leachate
SDG					L2235216	L2235216
Analytical Method	Parameter Name	Units	Filtered			
1631E	Mercury	MG/L	N	NS	0.0000022	0.0000025
1664B	Oil and Grease	MG/L	N	100 MG/L	<0.46	1.2 J
2540 D-1997	Total Suspended Solids	MG/L	N	350 MG/L	83	130
420.1	Total Phenols (Phenolics)	MG/L	N	10 MG/L	<0.006	0.054
4500-S2 D-2000	Sulfide	MG/L	N	10 MG/L	0.27	0.27
5210-B-2011	Biochemical Oxygen Demand (BOD) - 5 Day	MG/L	N	300 MG/L	4.4	5.1
6020B	Arsenic ⁽³⁾	MG/L	N	NS	0.02727	0.0251
6020B	Barium	MG/L	N	5 MG/L	0.5514	0.5302
6020B	Cadmium	MG/L	N	.003 MG/L	<0.00005	<0.00005
6020B	Chromium	MG/L	N	.3 MG/L	0.00047 J	0.00052 J
6020B	Copper	MG/L	N	.6 MG/L	0.00061 J	0.00062 J
6020B	Iron ⁽²⁾	MG/L	N	NS	38.8	38.5
6020B	Lead ⁽⁴⁾	MG/L	N	NS	0.0398	0.03973
6020B	Nickel	MG/L	N	.088 MG/L	0.00135 J	0.00121 J
6020B	Silver	MG/L	N	0.6 MG/L	<0.00016	<0.00016
6020B	Zinc	MG/L	N	.6 MG/L	0.00410 J	<0.00341
8260C	1,1,1-Trichloroethane	UG/L	N	NS	<7	<7
8260C	1,1,2,2-Tetrachloroethane	UG/L	N	NS	<1.7	<1.7
8260C	1,1,2-Trichloroethane	UG/L	N	NS	<5	<5
8260C	1,1-Dichloroethane	UG/L	N	NS	<7	<7
8260C	1,1-Dichloroethene	UG/L	N	NS	<1.7	<1.7
8260C	1,2-Dichloroethane	UG/L	N	NS	<1.3	<1.3
8260C	1,2-Dichloropropane	UG/L	N	NS	<1.4	<1.4
8260C	2-Hexanone	UG/L	N	NS	<10	<10
8260C	Acetone	UG/L	N	NS	<15	<15
8260C	Benzene	UG/L	N	NS	<1.6	<1.6
8260C	Bromodichloromethane	UG/L	N	NS	<1.9	<1.9
8260C	Bromoform	UG/L	N	NS	<6.5	<6.5
8260C	Carbon Disulfide	UG/L	N	NS	<10	<10
8260C	Carbon Tetrachloride	UG/L	N	NS	<1.3	<1.3
8260C	Chlorobenzene	UG/L	N	NS	<7	<7
8260C	Chlorodibromomethane	UG/L	N	NS	<1.5	<1.5
8260C	Chloroform	UG/L	N	NS	<7	<7
8260C	cis-1,2 Dichloroethene	UG/L	N	NS	98	100
8260C	cis-1,3-Dichloropropene	UG/L	N	NS	<1.4	<1.4
8260C	Ethyl Chloride	UG/L	N	NS	<7	<7
8260C	Ethylbenzene	UG/L	N	NS	<7	<7
8260C	meta- and para-Xylene	UG/L	N	NS	<7	<7
8260C	Methyl Bromide	UG/L	N	NS	<7	<7
8260C	Methyl Chloride	UG/L	N	NS	<7	<7
8260C	Methyl Ethyl Ketone	UG/L	N	NS	<19	<19
8260C	Methyl Isobutyl Ketone	UG/L	N	NS	<10	<10
8260C	Methylene Chloride	UG/L	N	NS	<7	<7
8260C	ortho-Xylene	UG/L	N	NS	<7	<7
8260C	Styrene	UG/L	N	NS	<7	<7
8260C	Tetrachloroethene	UG/L	N	NS	<1.8	<1.8
8260C	Toluene	UG/L	N	NS	<7	<7
8260C	trans-1,2-Dichloroethene	UG/L	N	NS	<7	<7
8260C	trans-1,3-Dichloropropene	UG/L	N	NS	<1.6	<1.6
8260C	Trichloroethene	UG/L	N	NS	7.4	7.6
8260C	Vinyl Chloride	UG/L	N	NS	3.6	3.6
8260C	Xylenes	UG/L	N	NS	<7	<7
8270D	1,2,4-Trichlorobenzene	UG/L	N	NS	<0.5	<0.5
8270D	1,2-Dichlorobenzene	UG/L	N	NS	<0.45	<0.45
8270D	1,3-Dichlorobenzene	UG/L	N	NS	<0.4	<0.4
8270D	1,4-Dichlorobenzene	UG/L	N	NS	<0.43	<0.43
8270D	2,4,5-Trichlorophenol	UG/L	N	NS	<0.77	<0.77
8270D	2,4,6-Trichlorophenol	UG/L	N	NS	<0.61	<0.61
8270D	2,4-Dichlorophenol	UG/L	N	NS	<0.41	<0.41
8270D	2,4-Dimethylphenol	UG/L	N	NS	<1.8	<1.8
8270D	2,4-Dinitrophenol	UG/L	N	NS	<6.6	<6.6
8270D	2,4-Dinitrotoluene	UG/L	N	NS	<1.2	<1.2
8270D	2,6-Dinitrotoluene	UG/L	N	NS	<0.93	<0.93

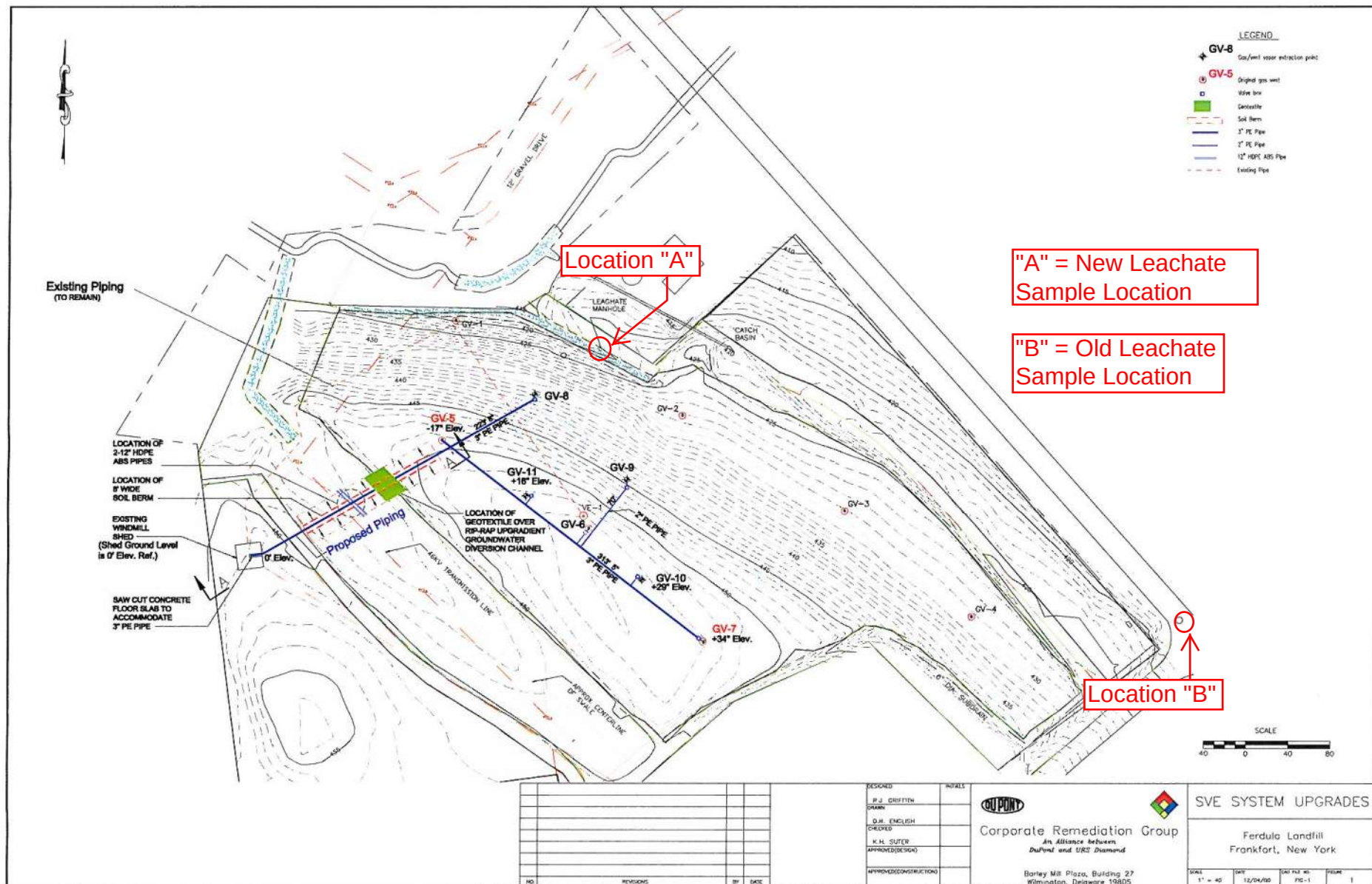
Table 1
2023 Leachate Analytical Data Summary Table
October 2023
Corteva Ferdula Landfill
Frankfort, New York



Field Sample ID				Ferdula_HCSD Effluent Daily Maximum Criteria ⁽¹⁾	EF2023-LEACHATE-D	EF2023-LEACHATE
Location ID					LEACHATE	LEACHATE
Sample Date					10/12/2023	10/12/2023
Sample Matrix					Liquid	Liquid
Sample Purpose					DUP	FS
Sample Type					Leachate	Leachate
SDG					L2235216	L2235216
Analytical Method	Parameter Name	Units	Filtered			
8270D	2-Chloronaphthalene	UG/L	N	NS	<0.44	<0.44
8270D	2-Chlorophenol	UG/L	N	NS	<0.48	<0.48
8270D	2-Methylnaphthalene	UG/L	N	NS	<0.45	<0.45
8270D	2-Methylphenol (o-Cresol)	UG/L	N	NS	<0.49	<0.49
8270D	2-Nitroaniline	UG/L	N	NS	<0.5	<0.5
8270D	2-Nitrophenol	UG/L	N	NS	<0.85	<0.85
8270D	3,3'-Dichlorobenzidine	UG/L	N	NS	<1.6 UJ	<1.6 UJ
8270D	3- And 4- Methylphenol	UG/L	N	NS	<0.48	<0.48
8270D	3-Nitroaniline	UG/L	N	NS	<0.81	<0.81
8270D	4,6-Dinitro-2-Methylphenol	UG/L	N	NS	<1.8	<1.8
8270D	4-Bromophenyl Phenyl Ether	UG/L	N	NS	<0.38	<0.38
8270D	4-Chloro-3-Methylphenol	UG/L	N	NS	<0.35	<0.35
8270D	4-Chloroaniline	UG/L	N	NS	<1.1 UJ	<1.1 UJ
8270D	4-Chlorophenyl Phenyl Ether	UG/L	N	NS	<0.49	<0.49
8270D	4-Nitroaniline	UG/L	N	NS	<0.8	<0.8
8270D	4-Nitrophenol	UG/L	N	NS	<0.67	<0.67
8270D	Acenaphthene	UG/L	N	NS	<0.44	<0.44
8270D	Acenaphthylene	UG/L	N	NS	<0.46	<0.46
8270D	Anthracene	UG/L	N	NS	<0.33	<0.33
8270D	Benzo(A)Anthracene	UG/L	N	NS	<0.32	<0.32
8270D	Benzo(A)Pyrene	UG/L	N	NS	<0.41	<0.41
8270D	Benzo(B)Fluoranthene	UG/L	N	NS	<0.35	<0.35
8270D	Benzo(G,H,I)Perylene	UG/L	N	NS	<0.3	<0.3
8270D	Benzo(K)Fluoranthene	UG/L	N	NS	<0.37	<0.37
8270D	Bis(2-Chloro-1-Methylethyl) Ether	UG/L	N	NS	<0.53	<0.53
8270D	Bis(2-Chloroethoxy)Methane	UG/L	N	NS	<0.5	<0.5
8270D	Bis(2-Chloroethyl)Ether	UG/L	N	NS	<0.5	<0.5
8270D	Bis(2-Ethylhexyl)Phthalate	UG/L	N	NS	<1.5	<1.5
8270D	Butyl Benzyl Phthalate	UG/L	N	NS	<1.2	<1.2
8270D	Carbazole	UG/L	N	NS	<0.49 UJ	<0.49 UJ
8270D	Chrysene	UG/L	N	NS	<0.34	<0.34
8270D	Di-N-Butyl Phthalate	UG/L	N	NS	<0.39	<0.39
8270D	Dibenz(A,H)Anthracene	UG/L	N	NS	<0.32	<0.32
8270D	Dibenzofuran	UG/L	N	NS	<0.5	<0.5
8270D	Diethyl Phthalate	UG/L	N	NS	<0.38	<0.38
8270D	Dimethyl Phthalate	UG/L	N	NS	<1.8	<1.8
8270D	Fluoranthene	UG/L	N	NS	<0.26	<0.26
8270D	Fluorene	UG/L	N	NS	<0.41	<0.41
8270D	Hexachlorobenzene	UG/L	N	NS	<0.46	<0.46
8270D	Hexachlorobutadiene	UG/L	N	NS	<0.66	<0.66
8270D	Hexachlorocyclopentadiene	UG/L	N	NS	<0.69	<0.69
8270D	Hexachloroethane	UG/L	N	NS	<0.58	<0.58
8270D	Indeno(1,2,3-CD)Pyrene	UG/L	N	NS	<0.4	<0.4
8270D	Isophorone	UG/L	N	NS	<1.2	<1.2
8270D	N-Dioctyl Phthalate	UG/L	N	NS	<1.3	<1.3
8270D	N-Nitrosodi-N-Propylamine	UG/L	N	NS	<0.64	<0.64
8270D	N-Nitrosodiphenylamine	UG/L	N	NS	<0.42	<0.42
8270D	Naphthalene	UG/L	N	NS	<0.46	<0.46
8270D	Nitrobenzene	UG/L	N	NS	<0.77	<0.77
8270D	Pentachlorophenol	UG/L	N	NS	<1.8	<1.8
8270D	Phenanthrene	UG/L	N	NS	<0.33	<0.33
8270D	Phenol	UG/L	N	NS	<0.57	<0.57
8270D	Pyrene	UG/L	N	NS	<0.28	<0.28
9010C	Cyanide, Amenable	MG/L	N	.09 MG/L	<0.005	<0.005
9012B	Cyanide	MG/L	N	.08 MG/L	<0.001	<0.001
9040C	pH (Hydrogen Ion)	STD UNITS	N	10.5 STD UNITS	7.45	7.6

ATTACHMENT 1

FIGURE SHOWING LEACHATE SAMPLING LOCATION



ATTACHMENT 2

ANALYTICAL LABORATORY REPORT WITH CHAIN-OF-CUSTODY AND ADQM DATA REVIEW NARRATIVE

ADQM Data Review

Site: Corteva Ferdula Landfill (FER), Ferdula, NY

Project: Leachate Sampling 2023

Project Reviewer: Sharon Nordstrom

Date of Review: November 3, 2023

Sample Summary

Field Sample ID	Laboratory Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose*
EF2023-LEACHATE	L2360596-01/ 240-193519-1	WATER	N	10/12/2023	10:05	FS
EF2023-LEACHATE-D	L2360596-02/ 240-193519-2	WATER	N	10/12/2023	10:05	DUP
EF2023-TRIP BLANK	L2360596-03	WATER	N	10/12/2023	10:05	TB

FS= Field Sample

DUP= Field Duplicate

TB=Trip Blank

Analytical Protocols

Lab Name	Lab Method	Parameter Name
Alpha Labs Mansfield	1631E	Mercury, Low Level
Alpha Labs Mansfield	6020B	Arsenic
Alpha Labs Mansfield	6020B	Barium
Alpha Labs Mansfield	6020B	Cadmium
Alpha Labs Mansfield	6020B	Chromium
Alpha Labs Mansfield	6020B	Copper
Alpha Labs Mansfield	6020B	Iron
Alpha Labs Mansfield	6020B	Lead
Alpha Labs Mansfield	6020B	Nickel
Alpha Labs Mansfield	6020B	Silver
Alpha Labs Mansfield	6020B	Zinc
Alpha Labs Westborough	1664B	Oil and Grease
Alpha Labs Westborough	2540 D-1997	Total Suspended Solids
Alpha Labs Westborough	420.1	Phenolics, Total
Eurofins Barberton	4500 S2 F-2001	Sulfide, Total
Alpha Labs Westborough	5210-B-2011	Biochemical Oxygen Demand (BOD) - 5 Day
Alpha Labs Westborough	8260C	Volatile Organics
Alpha Labs Westborough	8270D	Semi-volatile Organics
Alpha Labs Westborough	9010C	Cyanide, Amenable
Alpha Labs Westborough	9012B	Cyanide
Alpha Labs Westborough	9040C	pH

ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?	X				
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				1
D	Were samples prepped/analyzed by the laboratory within method holding times?		X	X		
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X		
F	Were all data usable and not R qualified?	X				
ER#	Description					
1	To meet EIM database requirements, the sampling time was entered as 10:05 for both the leachate sample and the field duplicate. The time of the trip blank sample was also entered in the database as 10:05.					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. The data are acceptable for use without qualification except as noted on the attached DVM Narrative Report.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software,

Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier**.

If the data have been validated by a third party, the field “**Validated By**” will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Ferdula

Sampling Program: LEACHATE SAMPLING 2023

Validation Options: LABSTATS

Validation Reason Code: Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2023-LEACHATE	10/12/2023	L2360596-01	Nickel	0.00121	MG/L	MDL	0.00055	0.00200	B	6020B		3005A
EF2023-LEACHATE	10/12/2023	L2360596-01	Copper	0.00062	MG/L	MDL	0.00038	0.00100	B	6020B		3005A
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Nickel	0.00135	MG/L	MDL	0.00055	0.00200	B	6020B		3005A
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Copper	0.00061	MG/L	MDL	0.00038	0.00100	B	6020B		3005A

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2023-LEACHATE	10/12/2023	L2360596-01	4-Chloroaniline	1.1	UG/L	MDL	1.1	5.0	UJ	8270E		3510C
EF2023-LEACHATE-D	10/12/2023	L2360596-02	4-Chloroaniline	1.1	UG/L	MDL	1.1	5.0	UJ	8270E		3510C

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2023-LEACHATE	10/12/2023	L2360596-01	Methyl Ethyl Ketone	1.9	UG/L	MDL	1.9	5.0	UJ	8260D		
EF2023-LEACHATE	10/12/2023	L2360596-01	Oil and Grease	0.46	MG/L	MDL	0.46	2.0	UJ	1664B		

Validation Reason Code: High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2023-LEACHATE-D	10/12/2023	L2360596-02	cis-1,2 Dichloroethene	98	UG/L	MDL	0.70	2.5	J	8260D		
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Phenolics	0.054	MG/L	MDL	0.006	0.030	J	420.1		
EF2023-LEACHATE	10/12/2023	L2360596-01	Total Suspended Solids	83	MG/L	MDL	10	10	J	2540 D-1997		
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Total Suspended Solids	130	MG/L	MDL	10	10	J	2540 D-1997		
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Vinyl Chloride	3.6	UG/L	MDL	0.07	1.0	J	8260D		
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Trichloroethene	7.4	UG/L	MDL	0.18	0.50	J	8260D		

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2023-LEACHATE	10/12/2023	L2360596-01	Trichloroethene	7.6	UG/L	MDL	0.18	0.50	J	8260D		

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Oil and Grease	1.2	MG/L	MDL	0.46	2.0	J	1664B		
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Zinc	0.00410	MG/L	MDL	0.00341	0.01000	J	6020B		3005A
EF2023-LEACHATE-D	10/12/2023	L2360596-02	Chromium	0.00047	MG/L	MDL	0.00017	0.00100	J	6020B		3005A
EF2023-LEACHATE	10/12/2023	L2360596-01	Chromium	0.00052	MG/L	MDL	0.00017	0.00100	J	6020B		3005A

ANALYTICAL REPORT

PREPARED FOR

Attn: Sharon Nordstrom
Corteva Agriscience
248 Chapman Road
Suite 101

Newark, Delaware 19702

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JOB DESCRIPTION

Leachate Sampling 2023 (FER)

JOB NUMBER

240-193519-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Debbie Olszowka, Project Manager II
Debbie.Olszowka@et.eurofinsus.com
(513)733-5700

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Definitions/Glossary

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Job ID: 240-193519-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-193519-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/13/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET CLE

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-193519-1	EF2023-LEACHATE	Water	10/12/23 10:05	10/13/23 09:40
240-193519-2	EF2023-LEACHATE-D	Water	10/12/23 10:25	10/13/23 09:40

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Detection Summary

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Client Sample ID: EF2023-LEACHATE

Lab Sample ID: 240-193519-1

☐ No Detections.

Client Sample ID: EF2023-LEACHATE-D

Lab Sample ID: 240-193519-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

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Client Sample Results

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Client Sample ID: EF2023-LEACHATE

Lab Sample ID: 240-193519-1

Date Collected: 10/12/23 10:05

Matrix: Water

Date Received: 10/13/23 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.27		1.0	0.27	mg/L			10/16/23 15:57	1

Client Sample ID: EF2023-LEACHATE-D

Lab Sample ID: 240-193519-2

Date Collected: 10/12/23 10:25

Matrix: Water

Date Received: 10/13/23 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.27		1.0	0.27	mg/L			10/16/23 15:57	1

QC Sample Results

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 240-590995/1

Matrix: Water

Analysis Batch: 590995

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.27		1.0	0.27	mg/L			10/16/23 15:57	1

Lab Sample ID: LCS 240-590995/2

Matrix: Water

Analysis Batch: 590995

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	19.6	19.6		mg/L		100	80 - 120

Lab Sample ID: 240-193519-1 MS

Matrix: Water

Analysis Batch: 590995

Client Sample ID: EF2023-LEACHATE

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.27		19.6	17.8		mg/L		91	67 - 126

Lab Sample ID: 240-193519-1 MSD

Matrix: Water

Analysis Batch: 590995

Client Sample ID: EF2023-LEACHATE

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.27		19.6	18.6		mg/L		95	67 - 126	4	10

QC Association Summary

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

General Chemistry

Analysis Batch: 590995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-193519-1	EF2023-LEACHATE	Total/NA	Water	4500 S2 F-2011	
240-193519-2	EF2023-LEACHATE-D	Total/NA	Water	4500 S2 F-2011	
MB 240-590995/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 240-590995/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
240-193519-1 MS	EF2023-LEACHATE	Total/NA	Water	4500 S2 F-2011	
240-193519-1 MSD	EF2023-LEACHATE	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Client Sample ID: EF2023-LEACHATE

Lab Sample ID: 240-193519-1

Date Collected: 10/12/23 10:05

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	4500 S2 F-2011		1	590995	RP	EET CLE	10/16/23 15:57

Client Sample ID: EF2023-LEACHATE-D

Lab Sample ID: 240-193519-2

Date Collected: 10/12/23 10:25

Matrix: Water

Date Received: 10/13/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	4500 S2 F-2011		1	590995	RP	EET CLE	10/16/23 15:57

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Corteva Agriscience
Project/Site: Leachate Sampling 2023 (FER)

Job ID: 240-193519-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-02-24

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[illegible]

Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client Convea Agnoscence Site Name _____ Cooler unpacked by: M. Kow

Cooler Received on 10-13-23 Opened on 10-13-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

Eurofins Cooler # 22 Foam Box _____ Client Cooler _____ Box _____ Other _____

Packing material used: Bubble Wrap _____ Foam _____ Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

1. Cooler temperature upon receipt _____ ☐ See Multiple Cooler Form

IR GUN # 21 (CF- 02 °C) Observed Cooler Temp. 4.5 °C Corrected Cooler Temp. 4.3 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Yes  Larger than this. Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
EF2023-LEACHATE	240-193519-A-1	Plastic 500ml - with Zn Acetate and NaOH >9	_____	_____	_____	_____
EF2023-LEACHATE	240-193519-B-1	Plastic 500ml - with Zn Acetate and NaOH >9	_____	_____	_____	_____
EF2023-LEACHATE	240-193519-C-1	Plastic 500ml - with Zn Acetate and NaOH >9	_____	_____	_____	_____
EF2023-LEACHATE-D	240-193519-A-2	Plastic 500ml - with Zn Acetate and NaOH >9	_____	_____	_____	_____





ANALYTICAL REPORT

Lab Number:	L2360596
Client:	Corteva Agriscience LLC 4051 Ogletown Road Sabre Building; Suite 300 Newark, DE 19713
ATTN:	Sharon Nordstrom
Phone:	(302) 781-5900
Project Name:	9762-7720100C-WH06-507052
Project Number:	LEACHATE SAMPLING 23
Report Date:	10/26/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596
Report Date: 10/26/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2360596-01	EF2023-LEACHATE	WATER	(FER) FERDULA, NY	10/12/23 10:05	10/12/23
L2360596-02	EF2023-LEACHATE-D	WATER	(FER) FERDULA, NY	10/12/23 10:45	10/12/23
L2360596-03	TRIP BLANK	WATER	(FER) FERDULA, NY	10/12/23 00:00	10/12/23

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596
Report Date: 10/26/23

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: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23**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

The WG1843141-6/-7 MS/MSD recoveries, performed on L2360596-01, are outside the acceptance criteria for cis-1,2-dichloroethene (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Total Metals

The WG1840190-3/-4 MS/MSD recoveries for iron (180%/140%), performed on L2360596-01, does not apply because the sample concentration is greater than four times the spike amount added.

OIL & GREASE, HEM-GRAV

The WG1844730-4 MS recovery, performed on L2360596-01, is outside the acceptance criteria for oil & grease, hem-grav (60%); however, the associated LCS recovery is within criteria. No further action was taken. The WG1844730-4/-5 MS/MSD RPD for oil & grease, hem-grav (27%) is above the acceptance criteria.

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: 10/26/23

ORGANICS

VOLATILES

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-01
 Client ID: EF2023-LEACHATE
 Sample Location: (FER) FERDULA, NY

Date Collected: 10/12/23 10:05
 Date Received: 10/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 10/22/23 09:39

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.6		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	7.6		ug/l	0.50	0.18	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS****Lab ID:** L2360596-01**Date Collected:** 10/12/23 10:05**Client ID:** EF2023-LEACHATE**Date Received:** 10/12/23**Sample Location:** (FER) FERDULA, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	100		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-02
 Client ID: EF2023-LEACHATE-D
 Sample Location: (FER) FERDULA, NY

Date Collected: 10/12/23 10:45
 Date Received: 10/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260D

Analytical Date: 10/22/23 10:05

Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	3.6		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	7.4		ug/l	0.50	0.18	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS****Lab ID:** L2360596-02**Date Collected:** 10/12/23 10:45**Client ID:** EF2023-LEACHATE-D**Date Received:** 10/12/23**Sample Location:** (FER) FERDULA, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	98		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-03
 Client ID: TRIP BLANK
 Sample Location: (FER) FERDULA, NY

Date Collected: 10/12/23 00:00
 Date Received: 10/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260D
 Analytical Date: 10/22/23 09:14
 Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS****Lab ID:** L2360596-03**Date Collected:** 10/12/23 00:00**Client ID:** TRIP BLANK**Date Received:** 10/12/23**Sample Location:** (FER) FERDULA, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 10/22/23 08:48
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1843141-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D
 Analytical Date: 10/22/23 08:48
 Analyst: PID

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1843141-5					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1843141-3 WG1843141-4								
Methylene chloride	97		96		70-130	1		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	96		94		70-130	2		20
Carbon tetrachloride	90		86		63-132	5		20
1,2-Dichloropropane	99		96		70-130	3		20
Dibromochloromethane	91		90		63-130	1		20
1,1,2-Trichloroethane	92		96		70-130	4		20
Tetrachloroethene	96		94		70-130	2		20
Chlorobenzene	99		96		75-130	3		20
1,2-Dichloroethane	92		93		70-130	1		20
1,1,1-Trichloroethane	93		90		67-130	3		20
Bromodichloromethane	91		91		67-130	0		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	93		92		70-130	1		20
Bromoform	80		83		54-136	4		20
1,1,2,2-Tetrachloroethane	95		100		67-130	5		20
Benzene	100		98		70-130	2		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		97		70-130	3		20
Chloromethane	85		79		64-130	7		20
Bromomethane	100		110		39-139	10		20
Vinyl chloride	90		89		55-140	1		20
Chloroethane	140	Q	130		55-138	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1843141-3 WG1843141-4								
1,1-Dichloroethene	110		120		61-145	9		20
trans-1,2-Dichloroethene	97		96		70-130	1		20
Trichloroethene	90		87		70-130	3		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Styrene	95		95		70-130	0		20
Acetone	82		86		58-148	5		20
Carbon disulfide	120		120		51-130	0		20
2-Butanone	68		76		63-138	11		20
4-Methyl-2-pentanone	82		86		59-130	5		20
2-Hexanone	87		92		57-130	6		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	108		108		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	92		94		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596

Report Date: 10/26/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab EF2023-LEACHATE Associated sample(s): 01-03 QC Batch ID: WG1843141-6 WG1843141-7 QC Sample: L2360596-01 Client ID:												
Methylene chloride	ND	10	8.4	84		8.9	89		70-130	6		20
1,1-Dichloroethane	ND	10	8.7	87		9.5	95		70-130	9		20
Chloroform	ND	10	8.1	81		8.9	89		70-130	9		20
Carbon tetrachloride	ND	10	8.2	82		8.9	89		63-132	8		20
1,2-Dichloropropane	ND	10	8.1	81		9.0	90		70-130	11		20
Dibromochloromethane	ND	10	8.2	82		9.1	91		63-130	10		20
1,1,2-Trichloroethane	ND	10	9.1	91		10	100		70-130	9		20
Tetrachloroethene	ND	10	9.6	96		10	100		70-130	4		20
Chlorobenzene	ND	10	9.2	92		10	100		75-130	8		20
1,2-Dichloroethane	ND	10	8.0	80		8.9	89		70-130	11		20
1,1,1-Trichloroethane	ND	10	8.4	84		9.1	91		67-130	8		20
Bromodichloromethane	ND	10	7.5	75		8.2	82		67-130	9		20
trans-1,3-Dichloropropene	ND	10	8.6	86		9.5	95		70-130	10		20
cis-1,3-Dichloropropene	ND	10	7.1	71		8.1	81		70-130	13		20
Bromoform	ND	10	7.1	71		8.2	82		54-136	14		20
1,1,2,2-Tetrachloroethane	ND	10	8.7	87		10	100		67-130	14		20
Benzene	ND	10	8.6	86		9.4	94		70-130	9		20
Toluene	ND	10	9.8	98		11	110		70-130	12		20
Ethylbenzene	ND	10	9.5	95		10	100		70-130	5		20
Chloromethane	ND	10	7.8	78		8.4	84		64-130	7		20
Bromomethane	ND	10	10	100		12	120		39-139	18		20
Vinyl chloride	3.6	10	12	84		13	94		55-140	8		20
Chloroethane	ND	10	13	130		14	140	Q	55-138	7		20

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab EF2023-LEACHATE Associated sample(s): 01-03 QC Batch ID: WG1843141-6 WG1843141-7 QC Sample: L2360596-01 Client ID:												
1,1-Dichloroethene	ND	10	12	120		13	130		61-145	8		20
trans-1,2-Dichloroethene	ND	10	9.0	90		9.7	97		70-130	7		20
Trichloroethene	7.6	10	14	64	Q	15	74		70-130	7		20
p/m-Xylene	ND	20	19	95		20	100		70-130	5		20
o-Xylene	ND	20	18	90		20	100		70-130	11		20
cis-1,2-Dichloroethene	100	10	91	0	Q	91	0	Q	70-130	0		20
Styrene	ND	20	18	90		19	95		70-130	5		20
Acetone	ND	10	8.3	83		8.1	81		58-148	2		20
Carbon disulfide	ND	10	12	120		13	130		51-130	8		20
2-Butanone	ND	10	6.1	61	Q	8.0	80		63-138	27	Q	20
4-Methyl-2-pentanone	ND	10	7.6	76		9.2	92		59-130	19		20
2-Hexanone	ND	10	8.2	82		9.1	91		57-130	10		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	87		87		70-130
Toluene-d8	109		109		70-130

SEMIVOLATILES

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-01
 Client ID: EF2023-LEACHATE
 Sample Location: (FER) FERDULA, NY

Date Collected: 10/12/23 10:05
 Date Received: 10/12/23
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270E
 Analytical Date: 10/18/23 08:49
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 10/17/23 07:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS****Lab ID:** L2360596-01**Date Collected:** 10/12/23 10:05**Client ID:** EF2023-LEACHATE**Date Received:** 10/12/23**Sample Location:** (FER) FERDULA, NY**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/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-01

Date Collected: 10/12/23 10:05

Client ID: EF2023-LEACHATE

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	53		41-149

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-02

Date Collected: 10/12/23 10:45

Client ID: EF2023-LEACHATE-D

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270E

Extraction Date: 10/17/23 07:44

Analytical Date: 10/18/23 09:13

Analyst: SZ

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 2

Report Date: 10/26/23

SAMPLE RESULTS

Lab ID: L2360596-02

Date Collected: 10/12/23 10:45

Client ID: EF2023-LEACHATE-D

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

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/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 2**Report Date:** 10/26/23**SAMPLE RESULTS****Lab ID:** L2360596-02**Date Collected:** 10/12/23 10:45**Client ID:** EF2023-LEACHATE-D**Date Received:** 10/12/23**Sample Location:** (FER) FERDULA, NY**Field Prep:** Not Specified**Sample Depth:**

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	48		41-149

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
 Analytical Date: 10/18/23 03:18
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 10/17/23 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1840566-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
 Analytical Date: 10/18/23 03:18
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 10/17/23 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1840566-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E
 Analytical Date: 10/18/23 03:18
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 10/17/23 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1840566-1					
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	61		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1840566-2 WG1840566-3								
Acenaphthene	73		72		37-111	1		30
1,2,4-Trichlorobenzene	84		78		39-98	7		30
Hexachlorobenzene	83		75		40-140	10		30
Bis(2-chloroethyl)ether	75		75		40-140	0		30
2-Chloronaphthalene	81		78		40-140	4		30
1,2-Dichlorobenzene	79		74		40-140	7		30
1,3-Dichlorobenzene	78		72		40-140	8		30
1,4-Dichlorobenzene	78		74		36-97	5		30
3,3'-Dichlorobenzidine	79		75		40-140	5		30
2,4-Dinitrotoluene	94		90		48-143	4		30
2,6-Dinitrotoluene	95		92		40-140	3		30
Fluoranthene	80		80		40-140	0		30
4-Chlorophenyl phenyl ether	81		76		40-140	6		30
4-Bromophenyl phenyl ether	83		78		40-140	6		30
Bis(2-chloroisopropyl)ether	65		61		40-140	6		30
Bis(2-chloroethoxy)methane	80		75		40-140	6		30
Hexachlorobutadiene	85		80		40-140	6		30
Hexachlorocyclopentadiene	90		83		40-140	8		30
Hexachloroethane	81		72		40-140	12		30
Isophorone	78		74		40-140	5		30
Naphthalene	79		78		40-140	1		30
Nitrobenzene	83		81		40-140	2		30
NDPA/DPA	81		79		40-140	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1840566-2 WG1840566-3								
n-Nitrosodi-n-propylamine	79		73		29-132	8		30
Bis(2-ethylhexyl)phthalate	97		93		40-140	4		30
Butyl benzyl phthalate	87		85		40-140	2		30
Di-n-butylphthalate	88		84		40-140	5		30
Di-n-octylphthalate	98		93		40-140	5		30
Diethyl phthalate	88		81		40-140	8		30
Dimethyl phthalate	88		81		40-140	8		30
Benzo(a)anthracene	88		84		40-140	5		30
Benzo(a)pyrene	94		88		40-140	7		30
Benzo(b)fluoranthene	87		83		40-140	5		30
Benzo(k)fluoranthene	84		83		40-140	1		30
Chrysene	86		84		40-140	2		30
Acenaphthylene	83		80		45-123	4		30
Anthracene	83		82		40-140	1		30
Benzo(ghi)perylene	97		92		40-140	5		30
Fluorene	80		76		40-140	5		30
Phenanthrene	81		81		40-140	0		30
Dibenzo(a,h)anthracene	94		91		40-140	3		30
Indeno(1,2,3-cd)pyrene	91		88		40-140	3		30
Pyrene	79		78		26-127	1		30
4-Chloroaniline	31	Q	70		40-140	77	Q	30
2-Nitroaniline	97		92		52-143	5		30
3-Nitroaniline	88		86		25-145	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1840566-2 WG1840566-3								
4-Nitroaniline	88		84		51-143	5		30
Dibenzofuran	76		76		40-140	0		30
2-Methylnaphthalene	81		80		40-140	1		30
2,4,6-Trichlorophenol	93		89		30-130	4		30
p-Chloro-m-cresol	87		83		23-97	5		30
2-Chlorophenol	85		78		27-123	9		30
2,4-Dichlorophenol	89		84		30-130	6		30
2,4-Dimethylphenol	73		77		30-130	5		30
2-Nitrophenol	107		99		30-130	8		30
4-Nitrophenol	89	Q	82	Q	10-80	8		30
2,4-Dinitrophenol	100		98		20-130	2		30
4,6-Dinitro-o-cresol	113		105		20-164	7		30
Pentachlorophenol	90		86		9-103	5		30
Phenol	72		61		12-110	17		30
2-Methylphenol	78		75		30-130	4		30
3-Methylphenol/4-Methylphenol	82		82		30-130	0		30
2,4,5-Trichlorophenol	93		89		30-130	4		30
Carbazole	82		80		55-144	2		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

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): 01-02 Batch: WG1840566-2 WG1840566-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		74		21-120
Phenol-d6	72		61		10-120
Nitrobenzene-d5	82		86		23-120
2-Fluorobiphenyl	83		81		15-120
2,4,6-Tribromophenol	98		104		10-120
4-Terphenyl-d14	85		84		41-149

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Project Number:** LEACHATE SAMPLING 23**Lab Number:** L2360596**Report Date:** 10/26/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1840566-4 WG1840566-5 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
Acenaphthene	ND	18.2	9.9	54		10	55		37-111	1		30
1,2,4-Trichlorobenzene	ND	18.2	11	61		12	66		39-98	9		30
Hexachlorobenzene	ND	18.2	10	55		11	61		40-140	10		30
Bis(2-chloroethyl)ether	ND	18.2	10	55		10	55		40-140	0		30
2-Chloronaphthalene	ND	18.2	11	61		12	66		40-140	9		30
1,2-Dichlorobenzene	ND	18.2	11	61		11	61		40-140	0		30
1,3-Dichlorobenzene	ND	18.2	11	61		11	61		40-140	0		30
1,4-Dichlorobenzene	ND	18.2	11	61		11	61		36-97	0		30
3,3'-Dichlorobenzidine	ND	18.2	7.6	42		8.6	47		40-140	12		30
2,4-Dinitrotoluene	ND	18.2	12	66		13	72		48-143	8		30
2,6-Dinitrotoluene	ND	18.2	12	66		13	72		40-140	8		30
Fluoranthene	ND	18.2	9.9	54		10	55		40-140	1		30
4-Chlorophenyl phenyl ether	ND	18.2	10	55		11	61		40-140	10		30
4-Bromophenyl phenyl ether	ND	18.2	11	61		12	66		40-140	9		30
Bis(2-chloroisopropyl)ether	ND	18.2	8.7	48		9.2	51		40-140	6		30
Bis(2-chloroethoxy)methane	ND	18.2	10	55		11	61		40-140	10		30
Hexachlorobutadiene	ND	18.2	13	72		12	66		40-140	8		30
Hexachlorocyclopentadiene	ND	18.2	13.J	72		14.J	77		40-140	7		30
Hexachloroethane	ND	18.2	11	61		11	61		40-140	0		30
Isophorone	ND	18.2	10	55		11	61		40-140	10		30
Naphthalene	ND	18.2	11	61		12	66		40-140	9		30
Nitrobenzene	ND	18.2	11	61		12	66		40-140	9		30
NDPA/DPA	ND	18.2	10	55		11	61		40-140	10		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596

Report Date: 10/26/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1840566-4 WG1840566-5 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
n-Nitrosodi-n-propylamine	ND	18.2	11	61		11	61		29-132	0		30
Bis(2-ethylhexyl)phthalate	ND	18.2	13	72		14	77		40-140	7		30
Butyl benzyl phthalate	ND	18.2	10	55		11	61		40-140	10		30
Di-n-butylphthalate	ND	18.2	12	66		12	66		40-140	0		30
Di-n-octylphthalate	ND	18.2	13	72		14	77		40-140	7		30
Diethyl phthalate	ND	18.2	11	61		12	66		40-140	9		30
Dimethyl phthalate	ND	18.2	11	61		12	66		40-140	9		30
Benzo(a)anthracene	ND	18.2	11	61		12	66		40-140	9		30
Benzo(a)pyrene	ND	18.2	12	66		13	72		40-140	8		30
Benzo(b)fluoranthene	ND	18.2	10	55		11	61		40-140	10		30
Benzo(k)fluoranthene	ND	18.2	11	61		12	66		40-140	9		30
Chrysene	ND	18.2	11	61		12	66		40-140	9		30
Acenaphthylene	ND	18.2	10	55		11	61		45-123	10		30
Anthracene	ND	18.2	11	61		11	61		40-140	0		30
Benzo(ghi)perylene	ND	18.2	12	66		13	72		40-140	8		30
Fluorene	ND	18.2	10	55		11	61		40-140	10		30
Phenanthrene	ND	18.2	10	55		11	61		40-140	10		30
Dibenzo(a,h)anthracene	ND	18.2	12	66		13	72		40-140	8		30
Indeno(1,2,3-cd)pyrene	ND	18.2	12	66		12	66		40-140	0		30
Pyrene	ND	18.2	9.2	51		10	55		26-127	8		30
4-Chloroaniline	ND	18.2	9.0	50		7.6	42		40-140	17		30
2-Nitroaniline	ND	18.2	12	66		13	72		52-143	8		30
3-Nitroaniline	ND	18.2	9.4	52		10	55		25-145	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596

Report Date: 10/26/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1840566-4 WG1840566-5 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
4-Nitroaniline	ND	18.2	9.2	51		10	55		51-143	8		30
Dibenzofuran	ND	18.2	10	55		11	61		40-140	10		30
2-Methylnaphthalene	ND	18.2	11	61		12	66		40-140	9		30
2,4,6-Trichlorophenol	ND	18.2	12	66		13	72		30-130	8		30
p-Chloro-m-cresol	ND	18.2	11	61		12	66		23-97	9		30
2-Chlorophenol	ND	18.2	11	61		11	61		27-123	0		30
2,4-Dichlorophenol	ND	18.2	12	66		13	72		30-130	8		30
2,4-Dimethylphenol	ND	18.2	11	61		11	61		30-130	0		30
2-Nitrophenol	ND	18.2	14	77		15	83		30-130	7		30
4-Nitrophenol	ND	18.2	9.8J	54		11	61		10-80	12		30
2,4-Dinitrophenol	ND	18.2	13.J	72		13.J	72		20-130	0		30
4,6-Dinitro-o-cresol	ND	18.2	15	83		15	83		20-164	0		30
Pentachlorophenol	ND	18.2	11	61		12	66		9-103	9		30
Phenol	ND	18.2	7.8	43		8.4	46		12-110	7		30
2-Methylphenol	ND	18.2	10	55		11	61		30-130	10		30
3-Methylphenol/4-Methylphenol	ND	18.2	10	55		12	66		30-130	18		30
2,4,5-Trichlorophenol	ND	18.2	12	66		12	66		30-130	0		30
Carbazole	ND	18.2	10	55		11	61		55-144	10		30

Surrogate	MS % Recovery	MSD % Recovery	Acceptance Criteria
2,4,6-Tribromophenol	70	73	10-120
2-Fluorobiphenyl	60	66	15-120

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1840566-4 WG1840566-5 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
2-Fluorophenol	53		57		21-120
4-Terphenyl-d14	56		59		41-149
Nitrobenzene-d5	62		67		23-120
Phenol-d6	43		47		10-120

METALS

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-01

Date Collected: 10/12/23 10:05

Client ID: EF2023-LEACHATE

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.02510		mg/l	0.00050	0.00016	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Barium, Total	0.5302		mg/l	0.00050	0.00017	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Chromium, Total	0.00052	J	mg/l	0.00100	0.00017	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Copper, Total	0.00062	J	mg/l	0.00100	0.00038	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Iron, Total	38.5		mg/l	0.0500	0.0191	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Lead, Total	0.03973		mg/l	0.00100	0.00034	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Nickel, Total	0.00121	J	mg/l	0.00200	0.00055	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/17/23 12:26	10/19/23 18:15	EPA 3005A	1,6020B	MRC
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0025		ug/l	0.0005	0.0004	1	10/23/23 10:58	10/26/23 08:48	EPA 1631E	82,1631E	EJF



Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23**SAMPLE RESULTS**

Lab ID: L2360596-02

Date Collected: 10/12/23 10:45

Client ID: EF2023-LEACHATE-D

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.02727		mg/l	0.00050	0.00016	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Barium, Total	0.5514		mg/l	0.00050	0.00017	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Chromium, Total	0.00047	J	mg/l	0.00100	0.00017	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Copper, Total	0.00061	J	mg/l	0.00100	0.00038	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Iron, Total	38.8		mg/l	0.0500	0.0191	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Lead, Total	0.03980		mg/l	0.00100	0.00034	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Nickel, Total	0.00135	J	mg/l	0.00200	0.00055	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Zinc, Total	0.00410	J	mg/l	0.01000	0.00341	1	10/17/23 12:26	10/23/23 19:55	EPA 3005A	1,6020B	SMV
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0022		ug/l	0.0005	0.0004	1	10/23/23 10:58	10/26/23 07:52	EPA 1631E	82,1631E	EJF



Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 2

Report Date: 10/26/23

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): 01-02 Batch: WG1840190-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Barium, Total	ND		mg/l	0.00050	0.00017	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Chromium, Total	ND		mg/l	0.00100	0.00017	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Copper, Total	0.00099	J	mg/l	0.00100	0.00038	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Iron, Total	ND		mg/l	0.0500	0.0191	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Lead, Total	ND		mg/l	0.00100	0.00034	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Nickel, Total	0.00078	J	mg/l	0.00200	0.00055	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Silver, Total	ND		mg/l	0.00040	0.00016	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC
Zinc, Total	ND		mg/l	0.01000	0.00341	1	10/17/23 12:26	10/19/23 17:49	1,6020B	MRC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Low-Level Mercury - Mansfield Lab for sample(s): 01-02 Batch: WG1844409-1										
Mercury, Total	ND		ug/l	0.0005	0.0004	1	10/23/23 10:58	10/26/23 06:51	82,1631E	EJF

Prep Information

Digestion Method: EPA 1631E



Lab Control Sample Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1840190-2								
Arsenic, Total	96		-		80-120	-		
Barium, Total	95		-		80-120	-		
Cadmium, Total	99		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Copper, Total	101		-		80-120	-		
Iron, Total	100		-		80-120	-		
Lead, Total	93		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Silver, Total	108		-		80-120	-		
Zinc, Total	93		-		80-120	-		
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 Batch: WG1844409-2 SRM Lot Number: HG-LOW								
Mercury, Total	96		-		77-123	-		24

Matrix Spike Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

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): 01-02 LEACHATE QC Batch ID: WG1840190-3 WG1840190-4 QC Sample: L2360596-01 Client ID: EF2023-												
Arsenic, Total	0.02510	0.12	0.1439	99		0.1457	100		75-125	1		20
Barium, Total	0.5302	2	2.503	99		2.424	95		75-125	3		20
Cadmium, Total	ND	0.053	0.05246	99		0.05144	97		75-125	2		20
Chromium, Total	0.00052J	0.2	0.2004	100		0.2001	100		75-125	0		20
Copper, Total	0.00062J	0.25	0.2484	99		0.2504	100		75-125	1		20
Iron, Total	38.5	1	40.3	180	Q	39.9	140	Q	75-125	1		20
Lead, Total	0.03973	0.53	0.5364	94		0.5501	96		75-125	3		20
Nickel, Total	0.00121J	0.5	0.4838	97		0.4844	97		75-125	0		20
Silver, Total	ND	0.05	0.05333	107		0.05278	106		75-125	1		20
Zinc, Total	ND	0.5	0.4574	91		0.4598	92		75-125	1		20
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1844409-3 WG1844409-4 QC Sample: L2360400-01 Client ID: MS Sample												
Mercury, Total	0.0008	0.005	0.0065	113		0.0060	104		71-125	7		24
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1844409-5 WG1844409-6 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
Mercury, Total	0.0025	0.005	0.0070	91		0.0071	92		71-125	1		24

INORGANICS & MISCELLANEOUS

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

SAMPLE RESULTS

Lab ID: L2360596-01

Date Collected: 10/12/23 10:05

Client ID: EF2023-LEACHATE

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	83.		mg/l	10	NA	2	-	10/14/23 18:15	121,2540D	REM
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/21/23 13:30	10/25/23 13:55	1,9010C/9012B	JER
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	10/25/23 09:40	10/25/23 14:18	1,9010C	JER
pH (H)	7.60		SU	-	NA	1	-	10/13/23 17:56	1,9040C	AAS
BOD, 5 day	5.1		mg/l	2.0	NA	1	10/13/23 22:24	10/18/23 17:49	121,5210B	JRG
Oil & Grease, Hem-Grav	ND		mg/l	2.0	0.46	1	10/26/23 16:34	10/26/23 18:11	140,1664B	JGM
Phenolics, Total	ND		mg/l	0.030	0.006	1	10/20/23 08:05	10/20/23 12:00	4,420.1	KEP



Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

SAMPLE RESULTS

Lab ID: L2360596-02

Date Collected: 10/12/23 10:45

Client ID: EF2023-LEACHATE-D

Date Received: 10/12/23

Sample Location: (FER) FERDULA, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	130		mg/l	10	NA	2	-	10/14/23 18:15	121,2540D	REM
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/21/23 13:30	10/25/23 13:58	1,9010C/9012B	JER
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	10/25/23 09:40	10/25/23 14:18	1,9010C	JER
pH (H)	7.45		SU	-	NA	1	-	10/13/23 17:56	1,9040C	AAS
BOD, 5 day	4.4		mg/l	2.0	NA	1	10/13/23 22:24	10/18/23 17:49	121,5210B	JRG
Oil & Grease, Hem-Grav	1.2	J	mg/l	2.0	0.46	1	10/26/23 16:34	10/26/23 18:05	140,1664B	JGM
Phenolics, Total	0.054		mg/l	0.030	0.006	1	10/20/23 08:05	10/20/23 12:05	4,420.1	KEP



Project Name: 9762-7720100C-WH06-507052

Lab Number: L2360596

Project Number: LEACHATE SAMPLING 23

Report Date: 10/26/23

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): 01-02 Batch: WG1839620-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	10/13/23 22:24	10/18/23 17:49	121,5210B	JRG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1839833-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	10/14/23 18:15	121,2540D	REM
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1842198-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	10/20/23 08:05	10/20/23 11:57	4,420.1	KEP
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1842643-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	10/21/23 13:30	10/25/23 13:46	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1843984-1										
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	10/25/23 09:40	10/25/23 14:18	1,9010C	JER
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1844730-1										
Oil & Grease, Hem-Grav	ND		mg/l	2.0	0.46	1	10/26/23 16:34	10/26/23 17:55	140,1664B	JGM



Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596

Report Date: 10/26/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1839598-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1839620-2								
BOD, 5 day	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1839833-2								
Solids, Total Suspended	94		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1842198-2								
Phenolics, Total	90		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1842643-2 WG1842643-3								
Cyanide, Total	91		99		85-115	8		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1843984-2								
Cyanide, Amenable	100		-		85-115	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1844730-2								
Oil & Grease, Hem-Grav	89		-		78-114	-		18

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596
Report Date: 10/26/23

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): 01-02 QC Batch ID: WG1839620-4 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
BOD, 5 day	5.1	100	94	89		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1842198-4 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
Phenolics, Total	ND	0.4	0.34	84		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1842643-4 WG1842643-5 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
Cyanide, Total	ND	0.2	0.204	102		0.203	102		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1844730-4 WG1844730-5 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE												
Oil & Grease, Hem-Grav	ND	39.2	24	60	Q	31	79		78-114	27	Q	18

Lab Duplicate Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 23

Lab Number: L2360596

Report Date: 10/26/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1839598-2 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE						
pH (H)	7.60	7.57	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1839620-3 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE						
BOD, 5 day	5.1	5.1	mg/l	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1839833-3 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE						
Solids, Total Suspended	83.	84	mg/l	1		32
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1842198-3 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1843984-3 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE						
Cyanide, Amenable	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1844730-3 QC Sample: L2360596-01 Client ID: EF2023-LEACHATE						
Oil & Grease, Hem-Grav	ND	0.55J	mg/l	NC		18

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2360596-01A	Vial HCl preserved	A	NA		3.7	Y	Absent		NYTCL-8260(14)
L2360596-01A1	Vial HCl preserved	A	NA		3.7	Y	Absent		NYTCL-8260(14)
L2360596-01A2	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-01B	Vial HCl preserved	A	NA		3.7	Y	Absent		NYTCL-8260(14)
L2360596-01B1	Vial HCl preserved	A	NA		3.7	Y	Absent		NYTCL-8260(14)
L2360596-01B2	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-01C	Vial HCl preserved	A	NA		3.7	Y	Absent		NYTCL-8260(14)
L2360596-01C1	Vial HCl preserved	A	NA		3.7	Y	Absent		NYTCL-8260(14)
L2360596-01C2	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-01D	Amber 250ml unpreserved	A	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2360596-01D1	Amber 250ml unpreserved	A	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2360596-01D2	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-LVI(7)
L2360596-01E	Amber 250ml unpreserved	A	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2360596-01E1	Amber 250ml unpreserved	A	7	7	3.7	Y	Absent		NYTCL-8270-LVI(7)
L2360596-01E2	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-LVI(7)
L2360596-01F	Plastic 250ml NaOH preserved	A	>12	>12	3.7	Y	Absent		TCN-9010(14),ACN-9010(14)
L2360596-01F1	Plastic 250ml NaOH preserved	A	>12	>12	3.7	Y	Absent		TCN-9010(14),ACN-9010(14)
L2360596-01F2	Plastic 250ml NaOH preserved	B	>12	>12	2.4	Y	Absent		TCN-9010(14),ACN-9010(14)
L2360596-01G	Plastic 250ml HNO3 preserved	A	<2	<2	3.7	Y	Absent		BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 23

Serial_No:10262319:05
Lab Number: L2360596
Report Date: 10/26/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2360596-01G1	Plastic 250ml HNO3 preserved	A	<2	<2	3.7	Y	Absent		BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2360596-01G2	Plastic 250ml HNO3 preserved	B	<2	<2	2.4	Y	Absent		BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2360596-01H	Teflon 250ml HCl preserved	A	<2	<2	3.7	Y	Absent		A2-HG-1631(28)
L2360596-01H1	Teflon 250ml HCl preserved	A	<2	<2	3.7	Y	Absent		A2-HG-1631(28)
L2360596-01H2	Teflon 250ml HCl preserved	B	<2	<2	2.4	Y	Absent		A2-HG-1631(28)
L2360596-01J	Plastic 950ml unpreserved	A	7	7	3.7	Y	Absent		PH-9040(1),BOD-5210(2)
L2360596-01J1	Plastic 950ml unpreserved	A	7	7	3.7	Y	Absent		PH-9040(1),BOD-5210(2)
L2360596-01J2	Plastic 950ml unpreserved	B	7	7	2.4	Y	Absent		PH-9040(1),BOD-5210(2)
L2360596-01K	Plastic 950ml unpreserved	A	7	7	3.7	Y	Absent		TSS-2540(7)
L2360596-01K1	Plastic 950ml unpreserved	A	7	7	3.7	Y	Absent		TSS-2540(7)
L2360596-01K2	Plastic 950ml unpreserved	B	7	7	2.4	Y	Absent		TSS-2540(7)
L2360596-01L	Amber 1000ml H2SO4 preserved	A	<4	<4	3.7	Y	Absent		NY-TPHENOL-420(28)
L2360596-01L1	Amber 1000ml H2SO4 preserved	A	<4	<4	3.7	Y	Absent		NY-TPHENOL-420(28)
L2360596-01L2	Amber 1000ml H2SO4 preserved	B	<4	<4	2.4	Y	Absent		NY-TPHENOL-420(28)
L2360596-01M	Amber 1000ml HCl preserved	A	NA		3.7	Y	Absent		NY-OG-1664-LOW(28)
L2360596-01M1	Amber 1000ml HCl preserved	A	NA		3.7	Y	Absent		NY-OG-1664-LOW(28)
L2360596-01M2	Amber 1000ml HCl preserved	B	NA		2.4	Y	Absent		NY-OG-1664-LOW(28)
L2360596-01N	Amber 1000ml HCl preserved	A	NA		3.7	Y	Absent		NY-OG-1664-LOW(28)
L2360596-01N1	Amber 1000ml HCl preserved	A	NA		3.7	Y	Absent		NY-OG-1664-LOW(28)
L2360596-01N2	Amber 1000ml HCl preserved	B	NA		2.4	Y	Absent		NY-OG-1664-LOW(28)
L2360596-02A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-02B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-02C	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-02D	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-LVI(7)
L2360596-02E	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-LVI(7)

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 23

Serial_No:10262319:05
Lab Number: L2360596
Report Date: 10/26/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2360596-02F	Plastic 250ml NaOH preserved	B	>12	>12	2.4	Y	Absent		TCN-9010(14),ACN-9010(14)
L2360596-02G	Plastic 250ml HNO3 preserved	B	<2	<2	2.4	Y	Absent		FE-6020T(180),BA-6020T(180),NI-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2360596-02H	Teflon 250ml HCl preserved	B	<2	<2	2.4	Y	Absent		A2-HG-1631(28)
L2360596-02J	Plastic 950ml unpreserved	B	7	7	2.4	Y	Absent		PH-9040(1),BOD-5210(2)
L2360596-02K	Plastic 950ml unpreserved	B	7	7	2.4	Y	Absent		TSS-2540(7)
L2360596-02L	Amber 1000ml H2SO4 preserved	B	<2	<2	2.4	Y	Absent		NY-TPHENOL-420(28)
L2360596-02M	Amber 1000ml HCl preserved	B	NA		2.4	Y	Absent		NY-OG-1664-LOW(28)
L2360596-02N	Amber 1000ml HCl preserved	B	NA		2.4	Y	Absent		NY-OG-1664-LOW(28)
L2360596-03A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)
L2360596-03B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260(14)

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23

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: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23**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

Report Format: DU Report with 'J' Qualifiers



Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2360596**Project Number:** LEACHATE SAMPLING 23**Report Date:** 10/26/23**Data Qualifiers**

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 82 Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry. USEPA Office of Water, EPA Method 1631 Revision E, EPA-821-R-02-019, August 2002.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 140 Method 1664, Revision B: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-10-001, February 2010.

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 its 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**

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Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 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 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 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).**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.

