

October 22, 2021

Mr. James M. Rathbun
Plant Superintendent
Herkimer County Sewer District
106 West Main Street
P.O. Box 361
Mohawk, New York 13407-0361

RE: 2021 Leachate Sampling Report
Corteva Ferdula Landfill
Frankfort, New York

Dear Mr. Rathbun:

On behalf Corteva Agriscience™ (Corteva), Parsons is pleased to provide you with the 2021 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 and Expires: December 31, 2021) 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 August 9, 2021, 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. Alpha has been certified by the New York State Department of Health (NYSDOH) Environmental Laboratory Approved Program (ELAP).

Samples collected on August 9, 2021 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, GS/MS semivolatiles 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 0.50 gallons per minute.

Mr. James M. Rathbun
Herkimer County Sewer District
October 22, 2021
Page 2

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 2022 (August to September 2022 timeframe).

Parsons looks forward to your favorable review of this report. If you have any questions or require additional information, please call me at (315) 552-9673 (office) or (315) 679-1170 (cell).

Sincerely,



A handwritten signature in black ink that reads 'Edward J. Ashton'.

Edward J. Ashton, PG
Project Manager

Attachments (Table 1, and Attachments 1 and 2)

cc: Mr. Peter Ouderkirk – NYSDEC, Region 6
Project File: 451984



TABLE 1

Table 1
2021 Leachate Analytical Data Summary Table
August 2021
Corteva Ferdula Landfill
Frankfort, New York

Field Sample ID				Ferdula_HCSD Effluent Daily Maximum Criteria ⁽¹⁾	EF2021-LEACHATE-D	EF2021-LEACHATE
Location ID					LEACHATE	LEACHATE
Sample Date					08/09/2021	08/09/2021
Sample Matrix					Liquid	Liquid
Sample Purpose					DUP	FS
Sample Type					Blank Water	Leachate
SDG					L2142612	L2142612
Analytical Method	Parameter Name	Units	Filtered			
1631E	Mercury	MG/L	N	NS	0.0000006	0.0000005
1664B	Oil and Grease	MG/L	N	100 mg/l	<4	<4
2540 D-1997	Total Suspended Solids	MG/L	N	350 MG/L	71	77
420.1	Total Phenolics	MG/L	N	10 MG/L	<0.006	<0.006
4500-S2 D-2000	Sulfide	MG/L	N	10 MG/L	<0.1 UJ	<0.1 UJ
5210-B-2011	Biochemical Oxygen Demand (BOD) - 5 Day	MG/L	N	300 MG/L	<2	3
6020B	Arsenic ⁽³⁾	MG/L	N	NS	0.02879	0.03096
6020B	Barium	MG/L	N	5 MG/L	0.5036	0.518
6020B	Cadmium	MG/L	N	.003 MG/L	<0.00005	<0.00005
6020B	Chromium	MG/L	N	.3 MG/L	0.00037 J	0.00047 J
6020B	Copper	MG/L	N	.6 MG/L	<0.00038	0.00067 J
6020B	Iron ⁽²⁾	MG/L	N	NS	42.2	44.2
6020B	Lead ⁽⁴⁾	MG/L	N	NS	0.01482	0.01881
6020B	Nickel	MG/L	N	.088 MG/L	0.00128 J	0.00184 J
6020B	Silver	MG/L	N	0.6 MG/L	<0.00016	<0.00016
6020B	Zinc	MG/L	N	.6 MG/L	0.00437 J	0.0043 J
8260C	1,1,1-Trichloroethane	UG/L	N	NS	<3.5	<3.5
8260C	1,1,2,2-Tetrachloroethane	UG/L	N	NS	<0.84	<0.84
8260C	1,1,2-Trichloroethane	UG/L	N	NS	<2.5	<2.5
8260C	1,1-Dichloroethane	UG/L	N	NS	<3.5	<3.5
8260C	1,1-Dichloroethene	UG/L	N	NS	1.6 J	1.5 J
8260C	1,2-Dichloroethane	UG/L	N	NS	<0.66	<0.66
8260C	1,2-Dichloropropane	UG/L	N	NS	<0.68	<0.68
8260C	2-Hexanone	UG/L	N	NS	<5	<5
8260C	Acetone	UG/L	N	NS	<7.3	<7.3
8260C	Benzene	UG/L	N	NS	<0.8	<0.8
8260C	Bromodichloromethane	UG/L	N	NS	<0.96	<0.96
8260C	Bromoform	UG/L	N	NS	<3.2	<3.2
8260C	Carbon Disulfide	UG/L	N	NS	<5	<5
8260C	Carbon Tetrachloride	UG/L	N	NS	<0.67	<0.67
8260C	Chlorobenzene	UG/L	N	NS	<3.5	<3.5
8260C	Chlorodibromomethane	UG/L	N	NS	<0.74	<0.74
8260C	Chloroform	UG/L	N	NS	<3.5	<3.5
8260C	cis-1,2 Dichloroethene	UG/L	N	NS	1800 J	1700
8260C	cis-1,3-Dichloropropene	UG/L	N	NS	<0.72	<0.72
8260C	Ethyl Chloride	UG/L	N	NS	<3.5	<3.5
8260C	Ethylbenzene	UG/L	N	NS	<3.5	<3.5
8260C	Meta- And Para-Xylene	UG/L	N	NS	<3.5	<3.5
8260C	Methyl Bromide	UG/L	N	NS	<3.5	<3.5
8260C	Methyl Chloride	UG/L	N	NS	<3.5	<3.5
8260C	Methyl Ethyl Ketone	UG/L	N	NS	<9.7	<9.7
8260C	Methyl Isobutyl Ketone	UG/L	N	NS	<5	<5
8260C	Methylene Chloride	UG/L	N	NS	<3.5	<3.5

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Location ID					LEACHATE	LEACHATE
Sample Date					08/09/2021	08/09/2021
Sample Matrix					Liquid	Liquid
Sample Purpose					DUP	FS
Sample Type					Blank Water	Leachate
SDG					L2142612	L2142612
Analytical Method	Parameter Name	Units	Filtered			
8260C	Ortho-Xylene	UG/L	N	NS	<3.5	<3.5
8260C	Styrene	UG/L	N	NS	<3.5	<3.5
8260C	Tetrachloroethene	UG/L	N	NS	<0.9	<0.9
8260C	Toluene	UG/L	N	NS	<3.5	<3.5
8260C	trans-1,2-Dichloroethene	UG/L	N	NS	4.2 J	3.9 J
8260C	trans-1,3-Dichloropropene	UG/L	N	NS	<0.82	<0.82
8260C	Trichloroethene	UG/L	N	NS	210 J	190
8260C	Vinyl Chloride	UG/L	N	NS	33 J	30
8260C	Xylenes	UG/L	N	NS	<3.5	<3.5
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 UJ
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
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	<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	<1.1
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 UJ
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

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Sample Date					08/09/2021	08/09/2021
Sample Matrix					Liquid	Liquid
Sample Purpose					DUP	FS
Sample Type					Blank Water	Leachate
SDG					L2142612	L2142612
Analytical Method	Parameter Name	Units	Filtered			
8270D	Benzo(K)Fluoranthene	UG/L	N	NS	<0.37	<0.37
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	<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 UJ
8270D	Hexachlorocyclopentadiene	UG/L	N	NS	<0.69	<0.69 UJ
8270D	Hexachloroethane	UG/L	N	NS	<0.58	<0.58 UJ
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	Amenable Cyanide	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	6.4	6.4

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2021 Leachate Analytical Data Summary Table
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Frankfort, New York

Notes:

< Parameter concentration less than parameter reporting limit.

- (1) - Herkimer County Sewer District (HCSD) Effluent Daily Maximum Criteria obtained from the HCSD Wastes Generator Permit G-021
- (2) (3) - No HCSD effluent daily maximum concentration exists for parameter as of March 2012. Concentration criteria was changed to mass balance criteria by HCSD. A daily maximum flow of 30,000 gallons per day and a discharge criteria of 4.0 for iron and 0.0025 for arsenic pounds per day is criteria for parameter. A flow rate of 1,440 gallons per day (based on a flow of 1.0 gallons per minute) was measured during field activities and used in calculating pounds per day (lbs/day) for iron and arsenic. See calculation below:

Million Gallons per day (MGM) x 8.34 x parameter

Iron: $0.001440 \times 8.34 \times 44.2 \text{ mg/L} = 0.53082432 \text{ lbs/day}$

Arsenic: $0.001440 \times 8.34 \times 0.03096 \text{ mg/L} = 0.000371817216 \text{ lbs/day}$

- (4) - No HCSD effluent daily maximum concentration exists for parameter as of February 2013. Concentration based criteria was changed to mass balance criteria by HCSD. A daily maximum flow of 30,000 gallons per day and a discharge 0.005 pounds per day for lead is criteria for parameter. A flow rate of 1,440 gallons per day (based on a flow of 1.0 gallons per minute) was measured during field activities and used in calculating pounds per day (lbs/day) for lead. See calculation below:

Million Gallons per day (MGM) x 8.34 x parameter concentration (mg/L) = lbs/day

Lead: $0.001440 \times 8.34 \times 0.01881 \text{ mg/L} = 0.000225900576 \text{ lbs/day}$

NS - Not sampled or not specified

J - The analyte was positively identified, but the quantitation is an estimation.

UJ - Not detected. Reporting limit may not be accurate or precise.

Dup Duplicate Sample

FS Field Sample

ug/L - micrograms per liter

mg/L - milligrams per liter

STD Units - Standard Units

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, NY

Project: Annual Landfill Leachate Sampling 2021

Sampling Date: August 9, 2021

Project Reviewer: Sharon Nordstrom

Sample Summary

Field Sample ID	Laboratory Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose*
EF2021-LEACHATE	L2142612-01	WATER	N	08/09/21	09:15	FS
EF2021-LEACHATE-D	L2142612-02	WATER	N	08/09/21	09:15	DUP
EF2021-TRIP BLANK	L2142612-03	WATER	N	08/09/21	09:15	TB

* FS=Field Sample
DUP=Field Duplicate
TB=Trip Blank

Analytical Protocols

Lab Name	Lab Method	Parameter Name
Alpha Labs Mansfield	1631E	Mercury
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
Alpha Labs Westborough	4500-S2 D-2000	Sulfide
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*	Not Applicable (NA)*	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					1
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					
D	Were samples prepped/analyzed by the laboratory within method holding times?	X					
E	Were QA/QC criteria met by the laboratory (method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, duplicates/replicates, surrogates, total/dissolved differences/RPDs, sample results within calibration range)?		X		X	X	
F	Were detections in field/equipment/trip blanks at levels not requiring sample data qualification?		X				
G	Were all data usable and not R qualified?	X					
ER#	Description						
1	The total Sulfide aliquots were received at the laboratory < pH 9. The laboratory added additional NaOH to raise the pH above 9, and proceeded with analysis.						
Other QA/QC Items to Note:							

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

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process. Overall, the data is 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 is 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:

Lab Qualifier is the qualifier assigned by the lab 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 lab qualifiers. As they are lab 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 lab 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 has 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 2021

Validation Options: LABSTATS

Validation Reason Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
EF2021-LEACHATE	08/09/2021	L2142612-01	Sulfide	0.10	MG/L	MDL	0.10	0.10	UJ	4500-S2 D-2000		
EF2021-LEACHATE	08/09/2021	L2142612-01	Acenaphthylene	0.46	UG/L	MDL	0.46	2.0	UJ	8270D		3510C
EF2021-LEACHATE	08/09/2021	L2142612-01	1,3-Dichlorobenzene	0.40	UG/L	MDL	0.40	2.0	UJ	8270D		3510C
EF2021-LEACHATE	08/09/2021	L2142612-01	Hexachloroethane	0.58	UG/L	MDL	0.58	2.0	UJ	8270D		3510C
EF2021-LEACHATE	08/09/2021	L2142612-01	Hexachlorocyclopenta diene	0.69	UG/L	MDL	0.69	20.	UJ	8270D		3510C
EF2021-LEACHATE	08/09/2021	L2142612-01	Carbazole	0.49	UG/L	MDL	0.49	2.0	UJ	8270D		3510C
EF2021-LEACHATE	08/09/2021	L2142612-01	Hexachlorobutadiene	0.66	UG/L	MDL	0.66	2.0	UJ	8270D		3510C
EF2021-LEACHATE	08/09/2021	L2142612-01	3,3'-Dichlorobenzidine	1.6	UG/L	MDL	1.6	5.0	UJ	8270D		3510C
EF2021-LEACHATE-D	08/09/2021	L2142612-02	Sulfide	0.10	MG/L	MDL	0.10	0.10	UJ	4500-S2 D-2000		

Validation Reason

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
EF2021-LEACHATE-D	08/09/2021	L2142612-02	cis-1,2 Dichloroethene	1800	UG/L	MDL	18.	62	J	8260C		
EF2021-LEACHATE-D	08/09/2021	L2142612-02	Vinyl Chloride	33	UG/L	MDL	0.36	5.0	J	8260C		
EF2021-LEACHATE-D	08/09/2021	L2142612-02	Trichloroethene	210	UG/L	MDL	0.88	2.5	J	8260C		

Validation Reason

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
EF2021-LEACHATE	08/09/2021 L2142612-01	trans-1,2-Dichloroethene	3.9	UG/L	MDL	3.5	12	J	8260C		
EF2021-LEACHATE-D	08/09/2021 L2142612-02	1,1-Dichloroethene	1.6	UG/L	MDL	0.84	2.5	J	8260C		
EF2021-LEACHATE-D	08/09/2021 L2142612-02	trans-1,2-Dichloroethene	4.2	UG/L	MDL	3.5	12	J	8260C		
EF2021-LEACHATE-D	08/09/2021 L2142612-02	Nickel	0.00128	MG/L	MDL	0.00055	0.00200	J	6020B		3005A
EF2021-LEACHATE-D	08/09/2021 L2142612-02	Chromium	0.00037	MG/L	MDL	0.00017	0.00100	J	6020B		3005A
EF2021-LEACHATE-D	08/09/2021 L2142612-02	Zinc	0.00437	MG/L	MDL	0.00341	0.01000	J	6020B		3005A
EF2021-LEACHATE	08/09/2021 L2142612-01	Nickel	0.00184	MG/L	MDL	0.00055	0.00200	J	6020B		3005A
EF2021-LEACHATE	08/09/2021 L2142612-01	Chromium	0.00047	MG/L	MDL	0.00017	0.00100	J	6020B		3005A
EF2021-LEACHATE	08/09/2021 L2142612-01	Copper	0.00067	MG/L	MDL	0.00038	0.00100	J	6020B		3005A
EF2021-LEACHATE	08/09/2021 L2142612-01	Zinc	0.00430	MG/L	MDL	0.00341	0.01000	J	6020B		3005A
EF2021-LEACHATE	08/09/2021 L2142612-01	1,1-Dichloroethene	1.5	UG/L	MDL	0.84	2.5	J	8260C		



ANALYTICAL REPORT

Lab Number:	L2142612
Client:	DowDuPont, Inc. 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 21
Report Date:	08/25/21

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 9762-7720100C-WH06-507052**Project Number:** LEACHATE SAMPLING 21**Lab Number:** L2142612**Report Date:** 08/25/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2142612-01	EF2021-LEACHATE	WATER	FRANKFORT, NY	08/09/21 09:15	08/09/21
L2142612-02	EF2021-LEACHATE-D	WATER	FRANKFORT, NY	08/09/21 09:25	08/09/21
L2142612-03	EF-2021 TRIP BLANK	WATER	FRANKFORT, NY	08/09/21 00:00	08/09/21

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612
Report Date: 08/25/21

Case Narrative

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

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

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

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

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

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

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**Case Narrative (continued)****Report Submission**

August 25, 2021: This final report includes the results of all requested analyses.

August 16, 2021: This is a preliminary report.

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

Sample Receipt

The client IDs were specified by the client.

L2142612-01 and -02: The sample was received below the appropriate pH for the Total Sulfide analysis. The laboratory added additional NaOH to a pH >9.

Volatile Organics

The WG1534439-6/-7 MS/MSD recoveries, performed on L2142612-01, are outside the acceptance criteria for cis-1,2-dichloroethene (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentration of the target compound present in the native sample.

Total Metals

The WG1533395-3/-4 MS/MSD recoveries for iron (20%/0%), performed on L2142612-01, do not apply because the sample concentration is greater than four times the spike amount added.

Sulfide

The WG1534445-3/-4 MS/MSD recoveries, performed on L2142612-01, are outside the acceptance criteria for sulfide (45%/51%); however, the associated LCS recovery is within criteria. No further action was taken.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 08/25/21

ORGANICS

VOLATILES

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01 D2

Date Collected: 08/09/21 09:15

Client ID: EF2021-LEACHATE

Date Received: 08/09/21

Sample Location: FRANKFORT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/12/21 20:43

Analyst: NLK

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

cis-1,2-Dichloroethene	1700		ug/l	62	18.	25
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01 D

Date Collected: 08/09/21 09:15

Client ID: EF2021-LEACHATE

Date Received: 08/09/21

Sample Location: FRANKFORT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/12/21 08:56

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	30		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	1.5	J	ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	3.9	J	ug/l	12	3.5	5
Trichloroethene	190		ug/l	2.5	0.88	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01 D

Date Collected: 08/09/21 09:15

Client ID: EF2021-LEACHATE

Date Received: 08/09/21

Sample Location: FRANKFORT, 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	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-02 D2

Date Collected: 08/09/21 09:25

Client ID: EF2021-LEACHATE-D

Date Received: 08/09/21

Sample Location: FRANKFORT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/12/21 21:04

Analyst: NLK

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

cis-1,2-Dichloroethene	1800		ug/l	62	18.	25
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-02 D

Date Collected: 08/09/21 09:25

Client ID: EF2021-LEACHATE-D

Date Received: 08/09/21

Sample Location: FRANKFORT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 08/12/21 09:17

Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	12	3.5	5
1,1-Dichloroethane	ND		ug/l	12	3.5	5
Chloroform	ND		ug/l	12	3.5	5
Carbon tetrachloride	ND		ug/l	2.5	0.67	5
1,2-Dichloropropane	ND		ug/l	5.0	0.68	5
Dibromochloromethane	ND		ug/l	2.5	0.74	5
1,1,2-Trichloroethane	ND		ug/l	7.5	2.5	5
Tetrachloroethene	ND		ug/l	2.5	0.90	5
Chlorobenzene	ND		ug/l	12	3.5	5
1,2-Dichloroethane	ND		ug/l	2.5	0.66	5
1,1,1-Trichloroethane	ND		ug/l	12	3.5	5
Bromodichloromethane	ND		ug/l	2.5	0.96	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	0.82	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	0.72	5
Bromoform	ND		ug/l	10	3.2	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	0.84	5
Benzene	ND		ug/l	2.5	0.80	5
Toluene	ND		ug/l	12	3.5	5
Ethylbenzene	ND		ug/l	12	3.5	5
Chloromethane	ND		ug/l	12	3.5	5
Bromomethane	ND		ug/l	12	3.5	5
Vinyl chloride	33		ug/l	5.0	0.36	5
Chloroethane	ND		ug/l	12	3.5	5
1,1-Dichloroethene	1.6	J	ug/l	2.5	0.84	5
trans-1,2-Dichloroethene	4.2	J	ug/l	12	3.5	5
Trichloroethene	210		ug/l	2.5	0.88	5
p/m-Xylene	ND		ug/l	12	3.5	5
o-Xylene	ND		ug/l	12	3.5	5

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-02 D

Date Collected: 08/09/21 09:25

Client ID: EF2021-LEACHATE-D

Date Received: 08/09/21

Sample Location: FRANKFORT, 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	12	3.5	5
Styrene	ND		ug/l	12	3.5	5
Acetone	ND		ug/l	25	7.3	5
Carbon disulfide	ND		ug/l	25	5.0	5
2-Butanone	ND		ug/l	25	9.7	5
4-Methyl-2-pentanone	ND		ug/l	25	5.0	5
2-Hexanone	ND		ug/l	25	5.0	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-03
 Client ID: EF-2021 TRIP BLANK
 Sample Location: FRANKFORT, NY

Date Collected: 08/09/21 00:00
 Date Received: 08/09/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 08/12/21 13:24
 Analyst: PD

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:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS****Lab ID:** L2142612-03**Date Collected:** 08/09/21 00:00**Client ID:** EF-2021 TRIP BLANK**Date Received:** 08/09/21**Sample Location:** FRANKFORT, 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	108		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/12/21 08:13
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1534439-5					
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:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/12/21 08:13
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1534439-5					
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	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/12/21 17:55
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1534833-5					
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: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/12/21 17:55
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1534833-5					
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	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

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: WG1534439-3 WG1534439-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	87		96		63-132	10		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	82		88		63-130	7		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	96		99		67-130	3		20
Bromodichloromethane	92		96		67-130	4		20
trans-1,3-Dichloropropene	95		96		70-130	1		20
cis-1,3-Dichloropropene	94		97		70-130	3		20
Bromoform	76		84		54-136	10		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		100		70-130	10		20
Chloromethane	110		110		64-130	0		20
Bromomethane	110		120		39-139	9		20
Vinyl chloride	110		110		55-140	0		20
Chloroethane	110		110		55-138	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

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: WG1534439-3 WG1534439-4								
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	99		100		70-130	1		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	98		100		70-130	2		20
Styrene	110		110		70-130	0		20
Acetone	110		110		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	110		120		63-138	9		20
4-Methyl-2-pentanone	110		120		59-130	9		20
2-Hexanone	110		120		57-130	9		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		104		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	96		98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1534833-3 WG1534833-4								
Methylene chloride	110		110		70-130	0		20
1,1-Dichloroethane	99		98		70-130	1		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	86		89		63-132	3		20
1,2-Dichloropropane	96		96		70-130	0		20
Dibromochloromethane	84		88		63-130	5		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	99		100		75-130	1		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	94		94		67-130	0		20
Bromodichloromethane	89		93		67-130	4		20
trans-1,3-Dichloropropene	92		95		70-130	3		20
cis-1,3-Dichloropropene	90		94		70-130	4		20
Bromoform	83		90		54-136	8		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	100		99		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	97		100		64-130	3		20
Bromomethane	140	Q	140	Q	39-139	0		20
Vinyl chloride	100		100		55-140	0		20
Chloroethane	100		100		55-138	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1534833-3 WG1534833-4								
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	99		98		70-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	97		100		70-130	3		20
Styrene	110		110		70-130	0		20
Acetone	160	Q	160	Q	58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	130		140	Q	63-138	7		20
4-Methyl-2-pentanone	130		130		59-130	0		20
2-Hexanone	130		130		57-130	0		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		105		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	98		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612

Report Date: 08/25/21

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 Associated sample(s): 01-03 QC Batch ID: WG1534439-6 WG1534439-7 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Methylene chloride	ND	50	55	110		57	114		70-130	4		20
1,1-Dichloroethane	ND	50	53	106		54	108		70-130	2		20
Chloroform	ND	50	54	108		53	106		70-130	2		20
Carbon tetrachloride	ND	50	45	90		47	94		63-132	4		20
1,2-Dichloropropane	ND	50	52	104		51	102		70-130	2		20
Dibromochloromethane	ND	50	44	88		49	98		63-130	11		20
1,1,2-Trichloroethane	ND	50	60	120		63	126		70-130	5		20
Tetrachloroethene	ND	50	55	110		53	106		70-130	4		20
Chlorobenzene	ND	50	52	104		53	106		75-130	2		20
1,2-Dichloroethane	ND	50	53	106		55	110		70-130	4		20
1,1,1-Trichloroethane	ND	50	50	100		51	102		67-130	2		20
Bromodichloromethane	ND	50	47	94		49	98		67-130	4		20
trans-1,3-Dichloropropene	ND	50	43	86		46	92		70-130	7		20
cis-1,3-Dichloropropene	ND	50	44	88		46	92		70-130	4		20
Bromoform	ND	50	44	88		47	94		54-136	7		20
1,1,2,2-Tetrachloroethane	ND	50	61	122		66	132	Q	67-130	8		20
Benzene	ND	50	54	108		53	106		70-130	2		20
Toluene	ND	50	53	106		54	108		70-130	2		20
Ethylbenzene	ND	50	53	106		54	108		70-130	2		20
Chloromethane	ND	50	55	110		56	112		64-130	2		20
Bromomethane	ND	50	67	134		74	148	Q	39-139	10		20
Vinyl chloride	30	50	89	118		89	118		55-140	0		20
Chloroethane	ND	50	56	112		58	116		55-138	4		20

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

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 Associated sample(s): 01-03 QC Batch ID: WG1534439-6 WG1534439-7 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
1,1-Dichloroethene	1.5J	50	62	124		62	124		61-145	0		20
trans-1,2-Dichloroethene	3.9J	50	63	126		63	126		70-130	0		20
Trichloroethene	190	50	240	100		230	80		70-130	4		20
p/m-Xylene	ND	100	100	100		100	100		70-130	0		20
o-Xylene	ND	100	100	100		100	100		70-130	0		20
cis-1,2-Dichloroethene	1800E	50	1800E	0	Q	1800E	0	Q	70-130	0		20
Styrene	ND	100	110	110		110	110		70-130	0		20
Acetone	ND	50	75	150	Q	82	164	Q	58-148	9		20
Carbon disulfide	ND	50	58	116		59	118		51-130	2		20
2-Butanone	ND	50	65	130		68	136		63-138	5		20
4-Methyl-2-pentanone	ND	50	66	132	Q	67	134	Q	59-130	2		20
2-Hexanone	ND	50	62	124		66	132	Q	57-130	6		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
4-Bromofluorobenzene	103		105		70-130
Dibromofluoromethane	100		98		70-130
Toluene-d8	102		102		70-130

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

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 MS Sample Associated sample(s): 01-02 QC Batch ID: WG1534833-6 WG1534833-7 QC Sample: L2142881-01 Client ID:												
Benzene	ND	10	9.9	99		9.2	92		70-130	7		20
Toluene	ND	10	9.8	98		9.2	92		70-130	6		20
Ethylbenzene	ND	10	10	100		9.4	94		70-130	6		20
Methyl tert butyl ether	ND	10	11	110		9.5	95		63-130	15		20
p/m-Xylene	ND	20	20	100		18	90		70-130	11		20
o-Xylene	ND	20	20	100		18	90		70-130	11		20
n-Butylbenzene	ND	10	10	100		9.8	98		53-136	2		20
sec-Butylbenzene	ND	10	11	110		10	100		70-130	10		20
tert-Butylbenzene	ND	10	10	100		9.6	96		70-130	4		20
Isopropylbenzene	ND	10	10	100		9.7	97		70-130	3		20
p-Isopropyltoluene	ND	10	10	100		9.8	98		70-130	2		20
Naphthalene	ND	10	10	100		9.6	96		70-130	4		20
n-Propylbenzene	ND	10	10	100		10	100		69-130	0		20
1,3,5-Trimethylbenzene	ND	10	9.8	98		9.4	94		64-130	4		20
1,2,4-Trimethylbenzene	ND	10	10	100		9.6	96		70-130	4		20

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
4-Bromofluorobenzene	100		102		70-130
Dibromofluoromethane	102		100		70-130
Toluene-d8	100		100		70-130

SEMIVOLATILES

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01
 Client ID: EF2021-LEACHATE
 Sample Location: FRANKFORT, NY

Date Collected: 08/09/21 09:15
 Date Received: 08/09/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/14/21 18:13
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/13/21 10:10

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-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
Diethyl phthalate	ND		ug/l	5.0	0.38	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01
Client ID: EF2021-LEACHATE
Sample Location: FRANKFORT, NY

Date Collected: 08/09/21 09:15
Date Received: 08/09/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01
 Client ID: EF2021-LEACHATE
 Sample Location: FRANKFORT, NY

Date Collected: 08/09/21 09:15
 Date Received: 08/09/21
 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	81		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	99		41-149

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-02
 Client ID: EF2021-LEACHATE-D
 Sample Location: FRANKFORT, NY

Date Collected: 08/09/21 09:25
 Date Received: 08/09/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 08/16/21 13:53
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/13/21 10:10

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-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
Diethyl phthalate	ND		ug/l	5.0	0.38	1

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS****Lab ID:** L2142612-02**Date Collected:** 08/09/21 09:25**Client ID:** EF2021-LEACHATE-D**Date Received:** 08/09/21**Sample Location:** FRANKFORT, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
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:** L2142612**Project Number:** LEACHATE SAMPLING 2**Report Date:** 08/25/21**SAMPLE RESULTS****Lab ID:** L2142612-02**Date Collected:** 08/09/21 09:25**Client ID:** EF2021-LEACHATE-D**Date Received:** 08/09/21**Sample Location:** FRANKFORT, 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	57		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	91		41-149

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/14/21 16:19
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/13/21 10:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1534788-1					
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-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
Dimethyl phthalate	ND		ug/l	5.0	1.8

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/14/21 16:19
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/13/21 10:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1534788-1					
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
Pentachlorophenol	ND		ug/l	10	1.8



Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/14/21 16:19
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 08/13/21 10:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1534788-1					
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	73		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	89		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1534788-2 WG1534788-3								
Acenaphthene	77		78		37-111	1		30
1,2,4-Trichlorobenzene	78		69		39-98	12		30
Hexachlorobenzene	78		83		40-140	6		30
Bis(2-chloroethyl)ether	80		74		40-140	8		30
2-Chloronaphthalene	79		77		40-140	3		30
1,2-Dichlorobenzene	75		68		40-140	10		30
1,3-Dichlorobenzene	76		67		40-140	13		30
1,4-Dichlorobenzene	75		66		36-97	13		30
3,3'-Dichlorobenzidine	74		80		40-140	8		30
2,4-Dinitrotoluene	87		92		48-143	6		30
2,6-Dinitrotoluene	92		102		40-140	10		30
Fluoranthene	87		89		40-140	2		30
4-Chlorophenyl phenyl ether	78		81		40-140	4		30
4-Bromophenyl phenyl ether	85		89		40-140	5		30
Bis(2-chloroethoxy)methane	79		80		40-140	1		30
Hexachlorobutadiene	70		59		40-140	17		30
Hexachlorocyclopentadiene	78		68		40-140	14		30
Hexachloroethane	71		63		40-140	12		30
Isophorone	78		80		40-140	3		30
Naphthalene	76		71		40-140	7		30
Nitrobenzene	89		84		40-140	6		30
NDPA/DPA	83		89		40-140	7		30
n-Nitrosodi-n-propylamine	81		80		29-132	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1534788-2 WG1534788-3								
Bis(2-ethylhexyl)phthalate	80		88		40-140	10		30
Butyl benzyl phthalate	98		107		40-140	9		30
Di-n-butylphthalate	80		90		40-140	12		30
Di-n-octylphthalate	84		93		40-140	10		30
Diethyl phthalate	82		90		40-140	9		30
Dimethyl phthalate	84		92		40-140	9		30
Benzo(a)anthracene	85		88		40-140	3		30
Benzo(a)pyrene	94		95		40-140	1		30
Benzo(b)fluoranthene	99		94		40-140	5		30
Benzo(k)fluoranthene	88		98		40-140	11		30
Chrysene	86		88		40-140	2		30
Acenaphthylene	83		82		45-123	1		30
Anthracene	84		86		40-140	2		30
Benzo(ghi)perylene	92		92		40-140	0		30
Fluorene	81		85		40-140	5		30
Phenanthrene	83		84		40-140	1		30
Dibenzo(a,h)anthracene	96		96		40-140	0		30
Indeno(1,2,3-cd)pyrene	102		101		40-140	1		30
Pyrene	84		86		26-127	2		30
4-Chloroaniline	81		80		40-140	1		30
2-Nitroaniline	94		100		52-143	6		30
3-Nitroaniline	79		85		25-145	7		30
4-Nitroaniline	90		97		51-143	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1534788-2 WG1534788-3								
Dibenzofuran	80		84		40-140	5		30
2-Methylnaphthalene	80		77		40-140	4		30
2,4,6-Trichlorophenol	84		88		30-130	5		30
p-Chloro-m-cresol	86		87		23-97	1		30
2-Chlorophenol	87		83		27-123	5		30
2,4-Dichlorophenol	89		89		30-130	0		30
2,4-Dimethylphenol	84		84		30-130	0		30
2-Nitrophenol	103		102		30-130	1		30
4-Nitrophenol	86	Q	88	Q	10-80	2		30
2,4-Dinitrophenol	94		96		20-130	2		30
4,6-Dinitro-o-cresol	102		108		20-164	6		30
Pentachlorophenol	75		86		9-103	14		30
Phenol	68		64		12-110	6		30
2-Methylphenol	82		78		30-130	5		30
3-Methylphenol/4-Methylphenol	86		83		30-130	4		30
2,4,5-Trichlorophenol	89		94		30-130	5		30
Carbazole	83		86		55-144	4		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1534788-2 WG1534788-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		80		21-120
Phenol-d6	75		70		10-120
Nitrobenzene-d5	102		96		23-120
2-Fluorobiphenyl	85		82		15-120
2,4,6-Tribromophenol	103		112		10-120
4-Terphenyl-d14	95		100		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612

Report Date: 08/25/21

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: WG1534788-4 WG1534788-5 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Acenaphthene	ND	18.2	15	83		7.5	41		37-111	67	Q	30
1,2,4-Trichlorobenzene	ND	18.2	14	77		7.1	39		39-98	65	Q	30
Hexachlorobenzene	ND	18.2	15	83		7.5	41		40-140	67	Q	30
Bis(2-chloroethyl)ether	ND	18.2	14	77		7.5	41		40-140	60	Q	30
2-Chloronaphthalene	ND	18.2	15	83		7.5	41		40-140	67	Q	30
1,2-Dichlorobenzene	ND	18.2	13	72		7.2	40		40-140	57	Q	30
1,3-Dichlorobenzene	ND	18.2	13	72		6.8	37	Q	40-140	63	Q	30
1,4-Dichlorobenzene	ND	18.2	13	72		6.8	37		36-97	63	Q	30
3,3'-Dichlorobenzidine	ND	18.2	12	66		6.8	37	Q	40-140	55	Q	30
2,4-Dinitrotoluene	ND	18.2	16	88		9.3	51		48-143	53	Q	30
2,6-Dinitrotoluene	ND	18.2	17	94		8.8	48		40-140	64	Q	30
Fluoranthene	ND	18.2	16	88		8.3	46		40-140	63	Q	30
4-Chlorophenyl phenyl ether	ND	18.2	15	83		7.5	41		40-140	67	Q	30
4-Bromophenyl phenyl ether	ND	18.2	15	83		8.0	44		40-140	61	Q	30
Bis(2-chloroethoxy)methane	ND	18.2	14	77		7.7	42		40-140	58	Q	30
Hexachlorobutadiene	ND	18.2	12	66		6.0	33	Q	40-140	67	Q	30
Hexachlorocyclopentadiene	ND	18.2	14.J	77		7.1J	39	Q	40-140	65	Q	30
Hexachloroethane	ND	18.2	12	66		6.5	36	Q	40-140	59	Q	30
Isophorone	ND	18.2	14	77		7.6	42		40-140	59	Q	30
Naphthalene	ND	18.2	14	77		7.2	40		40-140	64	Q	30
Nitrobenzene	ND	18.2	16	88		8.4	46		40-140	62	Q	30
NDPA/DPA	ND	18.2	16	88		8.2	45		40-140	64	Q	30
n-Nitrosodi-n-propylamine	ND	18.2	14	77		7.9	43		29-132	56	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612

Report Date: 08/25/21

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: WG1534788-4 WG1534788-5 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Bis(2-ethylhexyl)phthalate	ND	18.2	16	88		11	61		40-140	37	Q	30
Butyl benzyl phthalate	ND	18.2	19	100		11	61		40-140	53	Q	30
Di-n-butylphthalate	ND	18.2	16	88		8.1	45		40-140	66	Q	30
Di-n-octylphthalate	ND	18.2	17	94		12	66		40-140	34	Q	30
Diethyl phthalate	ND	18.2	16	88		8.1	45		40-140	66	Q	30
Dimethyl phthalate	ND	18.2	16	88		8.4	46		40-140	62	Q	30
Benzo(a)anthracene	ND	18.2	16	88		8.5	47		40-140	61	Q	30
Benzo(a)pyrene	ND	18.2	16	88		8.8	48		40-140	58	Q	30
Benzo(b)fluoranthene	ND	18.2	16	88		9.6	53		40-140	50	Q	30
Benzo(k)fluoranthene	ND	18.2	17	94		9.7	53		40-140	55	Q	30
Chrysene	ND	18.2	16	88		8.5	47		40-140	61	Q	30
Acenaphthylene	ND	18.2	15	83		7.8	43	Q	45-123	63	Q	30
Anthracene	ND	18.2	15	83		8.2	45		40-140	59	Q	30
Benzo(ghi)perylene	ND	18.2	16	88		9.7	53		40-140	49	Q	30
Fluorene	ND	18.2	15	83		7.9	43		40-140	62	Q	30
Phenanthrene	ND	18.2	15	83		8.1	45		40-140	60	Q	30
Dibenzo(a,h)anthracene	ND	18.2	17	94		10	55		40-140	52	Q	30
Indeno(1,2,3-cd)pyrene	ND	18.2	18	99		11	61		40-140	48	Q	30
Pyrene	ND	18.2	15	83		8.0	44		26-127	61	Q	30
4-Chloroaniline	ND	18.2	14	77		8.0	44		40-140	55	Q	30
2-Nitroaniline	ND	18.2	18	99		10	55		52-143	57	Q	30
3-Nitroaniline	ND	18.2	15	83		9.1	50		25-145	49	Q	30
4-Nitroaniline	ND	18.2	17	94		9.8	54		51-143	54	Q	30

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

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: WG1534788-4 WG1534788-5 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Dibenzofuran	ND	18.2	15	83		7.8	43		40-140	63	Q	30
2-Methylnaphthalene	ND	18.2	15	83		7.6	42		40-140	65	Q	30
2,4,6-Trichlorophenol	ND	18.2	16	88		9.7	53		30-130	49	Q	30
p-Chloro-m-cresol	ND	18.2	16	88		8.4	46		23-97	62	Q	30
2-Chlorophenol	ND	18.2	15	83		9.4	52		27-123	46	Q	30
2,4-Dichlorophenol	ND	18.2	16	88		9.0	50		30-130	56	Q	30
2,4-Dimethylphenol	ND	18.2	15	83		9.1	50		30-130	49	Q	30
2-Nitrophenol	ND	18.2	19	100		9.9J	54		30-130	63	Q	30
4-Nitrophenol	ND	18.2	15	83	Q	11	61		10-80	31	Q	30
2,4-Dinitrophenol	ND	18.2	20	110		18.J	99		20-130	11		30
4,6-Dinitro-o-cresol	ND	18.2	21	120		16	88		20-164	27		30
Pentachlorophenol	ND	18.2	15	83		10	55		9-103	40	Q	30
Phenol	ND	18.2	12	66		8.8	48		12-110	31	Q	30
2-Methylphenol	ND	18.2	14	77		9.3	51		30-130	40	Q	30
3-Methylphenol/4-Methylphenol	ND	18.2	15	83		9.9	54		30-130	41	Q	30
2,4,5-Trichlorophenol	ND	18.2	17	94		9.4	52		30-130	58	Q	30
Carbazole	ND	18.2	15	83		8.0	44	Q	55-144	61	Q	30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	111		61		10-120
2-Fluorobiphenyl	85		44		15-120
2-Fluorophenol	82		58		21-120

Matrix Spike Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

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: WG1534788-4 WG1534788-5 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
4-Terphenyl-d14	97		51		41-149
Nitrobenzene-d5	102		54		23-120
Phenol-d6	72		54		10-120

METALS

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-01

Date Collected: 08/09/21 09:15

Client ID: EF2021-LEACHATE

Date Received: 08/09/21

Sample Location: FRANKFORT, 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	0.03096		mg/l	0.00050	0.00016	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Barium, Total	0.5180		mg/l	0.00050	0.00017	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Chromium, Total	0.00047	J	mg/l	0.00100	0.00017	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Copper, Total	0.00067	J	mg/l	0.00100	0.00038	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Iron, Total	44.2		mg/l	0.0500	0.0191	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Lead, Total	0.01881		mg/l	0.00100	0.00034	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Nickel, Total	0.00184	J	mg/l	0.00200	0.00055	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Zinc, Total	0.00430	J	mg/l	0.01000	0.00341	1	08/10/21 16:35	08/20/21 18:31	EPA 3005A	1,6020B	CD
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0005		ug/l	0.0005	0.0001	1	08/20/21 17:57	08/25/21 13:21	EPA 1631E	82,1631E	CD



Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**SAMPLE RESULTS**

Lab ID: L2142612-02

Date Collected: 08/09/21 09:25

Client ID: EF2021-LEACHATE-D

Date Received: 08/09/21

Sample Location: FRANKFORT, 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	0.02879		mg/l	0.00050	0.00016	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Barium, Total	0.5036		mg/l	0.00050	0.00017	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Chromium, Total	0.00037	J	mg/l	0.00100	0.00017	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Iron, Total	42.2		mg/l	0.0500	0.0191	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Lead, Total	0.01482		mg/l	0.00100	0.00034	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Nickel, Total	0.00128	J	mg/l	0.00200	0.00055	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Zinc, Total	0.00437	J	mg/l	0.01000	0.00341	1	08/10/21 16:35	08/20/21 18:41	EPA 3005A	1,6020B	CD
Low-Level Mercury - Mansfield Lab											
Mercury, Total	0.0006		ug/l	0.0005	0.0001	1	08/20/21 17:57	08/25/21 13:44	EPA 1631E	82,1631E	CD



Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 2

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1533395-1									
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Barium, Total	ND	mg/l	0.00050	0.00017	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Chromium, Total	ND	mg/l	0.00100	0.00017	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Copper, Total	ND	mg/l	0.00100	0.00038	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Iron, Total	ND	mg/l	0.0500	0.0191	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Lead, Total	ND	mg/l	0.00100	0.00034	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Nickel, Total	ND	mg/l	0.00200	0.00055	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Silver, Total	ND	mg/l	0.00040	0.00016	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD
Zinc, Total	ND	mg/l	0.01000	0.00341	1	08/10/21 16:35	08/20/21 18:02	1,6020B	CD

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: WG1538111-1									
Mercury, Total	ND	ug/l	0.0005	0.0001	1	08/20/21 17:57	08/25/21 13:06	82,1631E	CD

Prep Information

Digestion Method: EPA 1631E



Lab Control Sample Analysis**Batch Quality Control****Project Name:** 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1533395-2								
Arsenic, Total	102		-		80-120	-		
Barium, Total	100		-		80-120	-		
Cadmium, Total	99		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Copper, Total	97		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	97		-		80-120	-		
Nickel, Total	94		-		80-120	-		
Silver, Total	102		-		80-120	-		
Zinc, Total	103		-		80-120	-		
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 Batch: WG1538111-2 SRM Lot Number: HG-LOW								
Mercury, Total	99		-		77-123	-		24

Matrix Spike Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 LEACHATE QC Batch ID: WG1533395-3 WG1533395-4 QC Sample: L2142612-01 Client ID: EF2021-												
Arsenic, Total	0.03096	0.12	0.1546	103		0.1502	99		75-125	3		20
Barium, Total	0.5180	2	2.532	101		2.465	97		75-125	3		20
Cadmium, Total	ND	0.053	0.05430	102		0.05252	99		75-125	3		20
Chromium, Total	0.00047J	0.2	0.1914	96		0.1903	95		75-125	1		20
Copper, Total	0.00067J	0.25	0.2428	97		0.2395	96		75-125	1		20
Iron, Total	44.2	1	44.4	20	Q	44.0	0	Q	75-125	1		20
Lead, Total	0.01881	0.53	0.5430	99		0.5350	97		75-125	1		20
Nickel, Total	0.00184J	0.5	0.4647	93		0.4662	93		75-125	0		20
Silver, Total	ND	0.05	0.05138	103		0.05094	102		75-125	1		20
Zinc, Total	0.00430J	0.5	0.5257	105		0.5180	104		75-125	1		20
Low-Level Mercury - Mansfield Lab Associated sample(s): 01-02 LEACHATE QC Batch ID: WG1538111-3 WG1538111-4 QC Sample: L2142612-01 Client ID: EF2021-												
Mercury, Total	0.0005	0.005	0.0054	97		0.0054	97		71-125	0		24

INORGANICS & MISCELLANEOUS

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

SAMPLE RESULTS

Lab ID: L2142612-01

Date Collected: 08/09/21 09:15

Client ID: EF2021-LEACHATE

Date Received: 08/09/21

Sample Location: FRANKFORT, 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	77.		mg/l	10	NA	2	-	08/12/21 15:35	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/10/21 09:55	08/10/21 13:35	1,9010C/9012B	CR
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	08/13/21 09:15	08/13/21 15:17	1,9010C	CR
pH (H)	6.4		SU	-	NA	1	-	08/10/21 07:41	1,9040C	KP
Sulfide	ND		mg/l	0.10	0.10	1	08/12/21 16:00	08/12/21 21:21	121,4500S2-D	EN
BOD, 5 day	3.0		mg/l	2.0	NA	1	08/10/21 10:10	08/15/21 12:55	121,5210B	MT
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	08/13/21 18:00	08/13/21 22:30	140,1664B	IR
Phenolics, Total	ND		mg/l	0.030	0.006	1	08/10/21 06:53	08/11/21 10:47	4,420.1	KP



Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

SAMPLE RESULTS

Lab ID: L2142612-02

Date Collected: 08/09/21 09:25

Client ID: EF2021-LEACHATE-D

Date Received: 08/09/21

Sample Location: FRANKFORT, 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	71.		mg/l	10	NA	2	-	08/12/21 15:35	121,2540D	AC
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/10/21 09:55	08/10/21 13:22	1,9010C/9012B	CR
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	08/13/21 09:15	08/13/21 15:17	1,9010C	CR
pH (H)	6.4		SU	-	NA	1	-	08/10/21 07:41	1,9040C	KP
Sulfide	ND		mg/l	0.10	0.10	1	08/12/21 16:00	08/12/21 21:21	121,4500S2-D	EN
BOD, 5 day	ND		mg/l	2.0	NA	1	08/10/21 23:50	08/15/21 17:53	121,5210B	JD
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	08/13/21 18:00	08/13/21 22:30	140,1664B	IR
Phenolics, Total	ND		mg/l	0.030	0.006	1	08/10/21 06:53	08/11/21 10:50	4,420.1	KP



Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1533270-1										
Phenolics, Total	ND		mg/l	0.030	0.006	1	08/10/21 06:53	08/11/21 10:36	4,420.1	KP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1533310-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/10/21 10:10	08/15/21 12:55	121,5210B	MT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1533342-1										
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	08/10/21 09:55	08/10/21 13:14	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1533625-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/10/21 23:50	08/15/21 17:53	121,5210B	JD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1534445-1										
Sulfide	ND		mg/l	0.10	0.10	1	08/12/21 16:00	08/12/21 21:19	121,4500S2-D	EN
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1534449-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/12/21 15:35	121,2540D	AC
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1534742-1										
Cyanide, Amenable	ND		mg/l	0.010	0.005	2	08/13/21 09:15	08/13/21 15:17	1,9010C	CR
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1534970-1										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	4.0	1	08/13/21 18:00	08/13/21 22:30	140,1664B	IR



Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612

Report Date: 08/25/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1533270-2								
Phenolics, Total	113		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1533302-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1533310-2								
BOD, 5 day	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1533342-2 WG1533342-3								
Cyanide, Total	102		106		85-115	4		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1533625-2								
BOD, 5 day	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1534445-2								
Sulfide	88		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1534449-2								
Solids, Total Suspended	106		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1534742-2					
Cyanide, Amenable	100	-	85-115	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1534970-2					
Oil & Grease, Hem-Grav	90	-	78-114	-	18

Matrix Spike Analysis **Batch Quality Control**

Project Name: 9762-7720100C-WH06-507052

Lab Number: L2142612

Project Number: LEACHATE SAMPLING 21

Report Date: 08/25/21

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: WG1533270-4 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Phenolics, Total	ND	0.4	0.38	96		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1533310-4 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
BOD, 5 day	3.0	100	100	98		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1533342-4 WG1533342-5 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Cyanide, Total	ND	0.2	0.163	82		0.193	96		80-120	17		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1533625-4 QC Sample: L2142612-02 Client ID: EF2021-LEACHATE-D												
BOD, 5 day	ND	100	72	72		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1534445-3 WG1534445-4 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Sulfide	ND	0.4	0.18	45	Q	0.21	51	Q	70-130	15		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1534970-4 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE												
Oil & Grease, Hem-Grav	ND	38.5	32	84		-	-		78-114	-		18

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 9762-7720100C-WH06-507052

Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612

Report Date: 08/25/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1533270-3 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE						
Phenolics, Total	ND	0.022J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1533302-2 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE						
pH (H)	6.4	6.4	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1533310-3 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE						
BOD, 5 day	3.0	3.7	mg/l	21		35
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1533625-3 QC Sample: L2142612-02 Client ID: EF2021-LEACHATE-D						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1534449-3 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE						
Solids, Total Suspended	77.	69	mg/l	11		29
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1534742-3 QC Sample: L2142612-01 Client ID: EF2021-LEACHATE						
Cyanide, Amenable	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1534970-3 QC Sample: L2142612-02 Client ID: EF2021-LEACHATE-D						
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC		18

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2142612-01A	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01A1	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01A2	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01B	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01B1	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01B2	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01C	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01C1	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01C2	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.0	Y	Absent		FE-6020T(180),BA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2142612-01D1	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		FE-6020T(180),BA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2142612-01D2	Plastic 250ml HNO3 preserved	C	<2	<2	5.1	Y	Absent		FE-6020T(180),BA-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180)
L2142612-01E	Plastic 250ml Zn Acetate/NaOH preserved	A	9	>9	2.0	N	Absent		SULFIDE-4500(7)
L2142612-01E1	Plastic 250ml Zn Acetate/NaOH preserved	B	8	>9	2.8	N	Absent		SULFIDE-4500(7)
L2142612-01E2	Plastic 250ml Zn Acetate/NaOH preserved	C	>9	>9	5.1	Y	Absent		SULFIDE-4500(7)
L2142612-01F	Plastic 250ml Zn Acetate/NaOH preserved	A	9	>9	2.0	N	Absent		SULFIDE-4500(7)

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 21

Serial_No:08252116:15
Lab Number: L2142612
Report Date: 08/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2142612-01F1	Plastic 250ml Zn Acetate/NaOH preserved	B	7	>9	2.8	N	Absent		SULFIDE-4500(7)
L2142612-01F2	Plastic 250ml Zn Acetate/NaOH preserved	C	8	>9	5.1	N	Absent		SULFIDE-4500(7)
L2142612-01G	Plastic 250ml NaOH preserved	A	>12	>12	2.0	Y	Absent		TCN-9010(14),ACN-9010(14)
L2142612-01G1	Plastic 250ml NaOH preserved	B	>12	>12	2.8	Y	Absent		TCN-9010(14),ACN-9010(14)
L2142612-01G2	Plastic 250ml NaOH preserved	C	>12	>12	5.1	Y	Absent		TCN-9010(14),ACN-9010(14)
L2142612-01H	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-LVI(7)
L2142612-01H1	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-LVI(7)
L2142612-01H2	Amber 250ml unpreserved	C	7	7	5.1	Y	Absent		NYTCL-8270-LVI(7)
L2142612-01J	Amber 250ml unpreserved	A	7	7	2.0	Y	Absent		NYTCL-8270-LVI(7)
L2142612-01J1	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-LVI(7)
L2142612-01J2	Amber 250ml unpreserved	C	7	7	5.1	Y	Absent		NYTCL-8270-LVI(7)
L2142612-01K	Teflon 250ml HCl preserved	A	<2	<2	2.0	Y	Absent		A2-HG-1631(28)
L2142612-01K1	Teflon 250ml HCl preserved	B	<2	<2	2.8	Y	Absent		A2-HG-1631(28)
L2142612-01K2	Teflon 250ml HCl preserved	C	<2	<2	5.1	Y	Absent		A2-HG-1631(28)
L2142612-01L	Plastic 950ml unpreserved	A	7	7	2.0	Y	Absent		PH-9040(1),BOD-5210(2)
L2142612-01L1	Plastic 950ml unpreserved	B	7	7	2.8	Y	Absent		PH-9040(1),BOD-5210(2)
L2142612-01L2	Plastic 950ml unpreserved	C	7	7	5.1	Y	Absent		PH-9040(1),BOD-5210(2)
L2142612-01M	Plastic 950ml unpreserved	A	7	7	2.0	Y	Absent		TSS-2540(7)
L2142612-01M1	Plastic 950ml unpreserved	B	7	7	2.8	Y	Absent		TSS-2540(7)
L2142612-01M2	Plastic 950ml unpreserved	C	7	7	5.1	Y	Absent		TSS-2540(7)
L2142612-01N	Amber 1000ml H2SO4 preserved	A	<2	<2	2.0	Y	Absent		NY-TPHENOL-420(28)
L2142612-01N1	Amber 1000ml H2SO4 preserved	B	<2	<2	2.8	Y	Absent		NY-TPHENOL-420(28)
L2142612-01N2	Amber 1000ml H2SO4 preserved	C	<2	<2	5.1	Y	Absent		NY-TPHENOL-420(28)
L2142612-01O	Amber 1000ml HCl preserved	A	NA		2.0	Y	Absent		OG-1664(28)
L2142612-01O1	Amber 1000ml HCl preserved	B	NA		2.8	Y	Absent		OG-1664(28)
L2142612-01O2	Amber 1000ml HCl preserved	C	NA		5.1	Y	Absent		OG-1664(28)
L2142612-01P	Amber 1000ml HCl preserved	A	NA		2.0	Y	Absent		OG-1664(28)
L2142612-01P1	Amber 1000ml HCl preserved	B	NA		2.8	Y	Absent		OG-1664(28)

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 21

Serial_No: 08252116:15
Lab Number: L2142612
Report Date: 08/25/21

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2142612-01P2	Amber 1000ml HCl preserved	C	NA		5.1	Y	Absent		OG-1664(28)
L2142612-02A	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-02B	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-02C	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-02D	Plastic 250ml HNO3 preserved	D	<2	<2	5.3	Y	Absent		BA-6020T(180),FE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180)
L2142612-02E	Plastic 250ml Zn Acetate/NaOH preserved	D	9	>9	5.3	N	Absent		SULFIDE-4500(7)
L2142612-02F	Plastic 250ml Zn Acetate/NaOH preserved	D	8	>9	5.3	N	Absent		SULFIDE-4500(7)
L2142612-02G	Plastic 250ml NaOH preserved	D	>12	>12	5.3	Y	Absent		TCN-9010(14),ACN-9010(14)
L2142612-02H	Amber 250ml unpreserved	D	7	7	5.3	Y	Absent		NYTCL-8270-LVI(7)
L2142612-02J	Amber 250ml unpreserved	D	7	7	5.3	Y	Absent		NYTCL-8270-LVI(7)
L2142612-02K	Teflon 250ml HCl preserved	D	<2	<2	5.3	Y	Absent		A2-HG-1631(28)
L2142612-02L	Plastic 950ml unpreserved	D	7	7	5.3	Y	Absent		PH-9040(1),BOD-5210(2)
L2142612-02M	Plastic 950ml unpreserved	D	7	7	5.3	Y	Absent		TSS-2540(7)
L2142612-02N	Amber 1000ml H2SO4 preserved	D	<2	<2	5.3	Y	Absent		NY-TPHENOL-420(28)
L2142612-02O	Amber 1000ml HCl preserved	D	NA		5.3	Y	Absent		OG-1664(28)
L2142612-02P	Amber 1000ml HCl preserved	D	NA		5.3	Y	Absent		OG-1664(28)
L2142612-03A	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)
L2142612-03B	Vial HCl preserved	A	NA		2.0	Y	Absent		NYTCL-8260(14)

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21

GLOSSARY

Acronyms

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

Report Format: DU Report with 'J' Qualifiers

Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**Footnotes**

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

Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results 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.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 9762-7720100C-WH06-507052**Lab Number:** L2142612**Project Number:** LEACHATE SAMPLING 21**Report Date:** 08/25/21**Data Qualifiers**

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: 9762-7720100C-WH06-507052
Project Number: LEACHATE SAMPLING 21

Lab Number: L2142612
Report Date: 08/25/21

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 it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

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

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

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

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

EPA 522, EPA 537.1.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1	Date Rec'd in Lab 8/10/21		ALPHA Job # L2142612
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <i>Certeva Red Audula LF-Gorchota</i> Project Location: <i>Frankfort, NY</i>		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other	
Client Information Client: <i>Parsons</i> Address: <i>301 Plainfield Rd</i> <i>Syracuse, NY 13212</i> Phone: <i>315-451-9560</i> Fax: <i>315-451-9570</i> Email: <i>edward.j.gashen@parsons.com</i>		Project #: (Use Project name as Project #) <i>Ed Audula LF</i> Project Manager: <i>Ed Ashkan</i> ALPHAQuote #: Turn-Around Time Standard ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Billing Information ☐ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge	
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: <i>coordinate w/ Sharon Nordstrom of AECOM</i> <i>610-733-8027</i>		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☒ NY ☐ Other:		ANALYSIS NYTCL-8270 LVZ 06-1664 TPLacul-420 PHT-900-5210 TDS-2570 Total Hg, Total metals ACN TEN Jm/6/06-4500 LL Hg NYTCL-8200		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments	
		Date	Time				
42612-01	<i>Leachate</i>	8-9-21	0915	water	LT, MH	✓	✓
	<i>Leachate - MS</i>	8-9-21	0915	water	LT, MH	✓	✓
	<i>Leachate - MSO</i>	8-9-21	0915	water	LT, MH	✓	✓
-02	<i>Leachate - D</i>	8-9-21	0925	water	LT, MH	✓	✓
-03	<i>Trip Blank</i>	-	-	water	-		✓
Preservative Code:		Container Code:		Westboro: Certification No: MA935		Container Type	
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015		A A AP P P P P, P G A B D, A A C H H/E B	
Relinquished By: <i>Ed Ashkan</i> <i>Ch. Stehle</i>		Date/Time 8-9-21/1600 08/09/21 1600		Received By: AAL <i>Ch. Stehle</i> <i>Karol Orr</i>		Date/Time 08/09/21 1600 8/10/21 0115	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)							