



Director: Division of Environmental/Solid Waste
Niagara County Department of Public Works
59 Park Avenue, Lockport, NY 14094

**Re: Groundwater Monitoring Sampling Results: 2022-Q4
Niagara County Department of Public Works
Niagara County Refuse Disposal District RFP 2021-22
State Route 93, Lockport, NY**

Ms. Timm,

LiRo Engineers, Inc. (LiRo) has prepared this letter report to document results of the Fourth Quarter 2022 Environmental monitoring and sampling tasks performed at the Niagara County Refuse Disposal District (NCRDD) (Figure 1 and Figure 2).

Background

The NCRDD facility consists of three adjacent sanitary landfills: a C&D Landfill (north landfill), Landfill #1 (center landfill) and, Landfill #2 (south landfill) (see Figure 2) operated under New York State Department of Environmental Conservation (NYSDEC) permits. Hydraulically, Landfill #1 and Landfill #2 are contiguous (i.e. not separated by a liner) and are monitored as a single unit. Landfill #1 and Landfill #2 groundwater monitoring wells are set within the Lockport Formation (8 monitoring wells) and Rochester Formation (7 monitoring wells) water-bearing zones. C&D Landfill monitoring wells are installed in the Uppermost Water-Bearing Zone (8 monitoring wells) and are divided into 2 groups: Group I (hydraulically up-gradient wells) and Group II (6 monitoring wells).

NCRDD Monitoring and Sampling Program

In accordance with NYSDEC permit requirements, monitoring and/or sampling of the NCRDD is conducted at 23 monitoring wells, a surface water monitoring location (i.e. Pond), four landfill gas-vent monitoring points (i.e. MP-1 through MP-4), site Sump, groundwater collection manhole (GWCM), and a leachate collection, storage and transfer system (see Table 1).

This report summarizes the results of the quarterly and monthly monitoring performed by LiRo for the fourth quarter of 2022 (i.e. 2022-Q4). Specific monitoring tasks for the NCRDD included monthly landfill gas-vent monitoring (i.e. October 2022, November 2022 and December 2022) at four locations, measuring groundwater elevations from Site wells, the collection of groundwater, surface water and leachate samples from:

- 1) 21 Site monitoring wells,
- 2) A surface water sample (i.e. Pond),
- 3) Five leachate system locations
 - a. Groundwater collector manhole, Sump, Landfill #2 Leachate Storage, C&D Primary Leachate, and C&D Secondary Leachate

Landfill Gas-Vent Monitoring

The NYSDEC permit requires monthly monitoring of effluent/fugitive gas at four gas-vent monitoring points (i.e. MP-1 through MP-4 for 4 parameters: Oxygen (O₂), Methane (CH₄), Lower Explosive Limit (LEL) and Hydrogen Sulfide (H₂S). LiRo conducted 2022-Q4 gas-vent monitoring on October 12, 2022, November 30, 2022, and December 14, 2022. The results of 2022 gas-vent monitoring are presented in Table 2.



Groundwater Gauging and Elevation Contour Maps

LiRo developed groundwater contour maps for the Lockport Formation (i.e. shallow bedrock groundwater) and the Rochester Formation (i.e. deep bedrock groundwater) based on water-level measurements recorded on November 28, 2022. Water level and groundwater elevation data are provided in Table 3. The Lockport Formation contour map is presented in Figure 3 and the Rochester Formation contour map is presented in Figure 4.

Groundwater flow in the Lockport Formation is monitored by shallow wells screened at elevations ranging between 549.30 and 575.10 feet above mean sea level (AMSL). Based on the 2022-Q4 water level measurements, shallow groundwater flow in the Lockport Formation is generally to the southwest, from a high elevation at GZ-20SR of 575.10 feet AMSL to a low elevation at GZ-15 of 549.30 feet AMSL, see Figure 3. The typical hydraulic gradient in the Lockport Formation, as calculated between GZ-20SR and GZ-25S, is approximately 0.028 feet per foot (ft/ft).

Groundwater flow in the Rochester Formation is monitored by deep bedrock wells screened at elevations ranging between 498.30 and 547.21 feet AMSL. Groundwater elevations within the Rochester Formation generally indicate that groundwater flows radially inward from high elevations at GZ-7D (541.26 feet AMSL), MW-27DD (542.99 feet AMSL), MW-28D (540.57 feet AMSL) and MW-29D (547.21 feet AMSL) to low elevations of 535.60 feet AMSL at GZ-25D (Figure 4). Calculated hydraulic gradients in the Rochester Formation range from a high of 0.17 ft/ft between MW-28D and GZ-22D to a low of 0.012 ft/ft between MW-27DD and GZ-25D).

Groundwater Sampling

Between November 28, 2022, and November 30, 2022, LiRo conducted groundwater, surface water and leachate collection-system sampling (Table 4).

Site Q4 Sample Schedule (see Table 1):

- Uppermost Water-Bearing Zone Wells:
 - Group II Wells: GZ-12, GZ-13, GZ-14, GZ-15, GZ-17 and GZ-18.
- Lockport Formation Monitoring Wells:
 - Up-gradient Wells: GZ-20SR and GZ-21S.
 - Down-gradient Wells: GZ-7S, GZ-22S, GZ-23S, GZ-24S, GZ-25S, and MW-27S.
- Rochester Formation Wells:
 - Up-Gradient Wells: MW-28D and MW-29D.
 - Down-Gradient Wells: GZ-7D, GZ-22D, GZ-25D, MW-26D, and MW-27DD.

Additional water samples from:

- Pond,
- Groundwater Collector Manhole (GWCM),
- Sump
- C&D Primary Leachate,
- C&D Secondary Leachate, and
- Landfill #2 Leachate Storage



The following deviations for the 2022-Q4 sampling event are noted:

- GZ-22D: Well went dry during sampling, only VOC, Metals, Metals-hg, and dissolved metals submitted for analysis.
- MW-26D: Well was dry before purging, no sample collected.

Prior to sampling at each groundwater monitoring location, LiRo personnel purged a minimum of three well volumes of groundwater or until dry conditions were noted in each well. Well locations were allowed time to recharge following well purging for sample collection. Purging and sample collection from monitoring wells was completed using dedicated bailers and/or a Waterra™ pump. A summary of sampling and field monitoring information is presented in Table 4. The 2022 Q1 to Q4 sample analytic results are provided in Table 5.

Field Measurements

During well purging LiRo measured and recorded water quality data for temperature, specific conductance/conductivity, pH, dissolved Oxygen and turbidity prior to sample collection. Data is provided on groundwater purge and sampling logs presented in Attachment A and presented in Table 4. All samples were packed in ice upon collection and transported to ALS Environmental, Rochester, New York in accordance with applicable chain-of-custody procedures for analytical testing.

Field measurements of pH, specific conductance, and temperature were generally below the Site-Specific Statistical Trigger Values (SSSTVs) for each sampling location at the time of sample collection. Turbidity measurements taken at the time of sample collection exceeded New York State Department of Environmental Conservation's *Technical and Operational Guidance Series (TOGS) 1.1.1* Class GA Ambient Water Quality Standards and Guidance Value (AWQSGV) of 5 nephelometric turbidity units (NTUs) in all 26 sample locations for 2022-Q4.

Analytical Result Summary Tables

The 2022-Q4 analytical results for water samples collected from the C&D Landfill monitoring wells, Landfill #1 and Landfill #2 monitoring wells, C&D Primary Collector, C&D Secondary Collector, Groundwater Collector, Sump, and Pond are presented in Table 5.

Analytical results in Table 5 were compared to the NYSDEC Memorandum: Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) Ambient Water Quality Standards and Guidance values (AWQSGVs), and background Site-Specific Statistical Trigger Values (SSSTVs). The parameters values that exceed their respective NYSDEC AWQSGV are shaded in gray. Reported parameter values that exceed their respective SSSTVs are presented in bold text. A Data Usability Summary Report (DUSR) was prepared for a sample data group (SDG) No. R2205363 and is provided in Attachment B.

Discussion of Analytical Results

Lockport Formation - Volatile Organic Compounds

The 2022-Q4 groundwater samples collected from Lockport Formation down-gradient wells GZ-12, GZ-13, GZ-17, GZ-22S, GZ-24S, GZ-25S, and MW-27S were submitted for VOC analysis. Parameters that exceeded their respective NYSDEC AWQSGVs are indicated with gray shaded test. No parameters exceeded their respective SSSTV.



Lockport Formation VOC Result Exceedances

Parameter	Units	GZ-12
Benzene	ug/L	2

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

1) ug/L = micrograms per liter (i.e. parts per billion).

Rochester Formation – Volatile Organic Compounds

The 2022-Q4 groundwater samples collected from Rochester Formation down-gradient wells GZ-7D, GZ-22D, GZ-25D, and MW-27DD were submitted for VOC analysis. Parameters that exceeded their respective NYSDEC AWQSGVs in these samples are indicated with gray shaded text while parameters that exceeded their respective SSSTVs are indicated with **bold** text as summarized in the table below:

Rochester Formation VOC Result Exceedances

Parameter	Units	GZ-7D	GZ-25D	GZ-25D ²	MW-27DD	GZ-22D
Benzene	ug/L	11	84	78	14	1.5
Toluene	ug/L		22	19	23	
m,p-Xylenes	ug/L		33	30	6.3	
Ethylbenzene	ug/L		6.1	5.3		
2-Butanone	ug/L		31	30	8.8	
Acetone	ug/L		55	59		
o-xylenes	ug/L		13	12		

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

1) ug/L = micrograms per liter (i.e. parts per billion).

2) 2022-Q4 Blind Duplicate #2

Lockport Formation Leachate Indicators

Part 360 leachate indicators were detected at the site in the Lockport Formation monitoring wells. The table below summarizes the detected concentrations of leachate indicator parameters exceeding the SSSTVs and NYSDEC AWQSGVs. Concentrations exceeding the SSSTVs are presented as **bold** text and concentrations exceeding NYSDEC AWQSGVs are presented with a gray-shaded text. These results are also included in the site-wide summary of exceedances.

Lockport Formation Leachate Indicator Exceedances

Parameter	Units	GZ-7S	GZ-20SR	GZ-21S	GZ-22S	GZ-23S	GZ-23S ¹	GZ-24S	GZ-25S
Ammonia	mg/L-N				2.65	6.5	6.61	10.8	25.4
Bromide	mg/L		3			2.4	2.7	115	455
Chloride	mg/L		299					10700	51200
Color	C.U.				170			175	250
Nitrate	mg/L		2.9						
Sulfate	mg/L		780			472	469	3070	2220
TDS	mg/L		1870	928	680	1520	1520	24000	72800
COD	mg/L								2250
Total Phenolics	mg/L							0.003	
Hex. Chrome	mg/L	0.063							

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented

1) 2022-Q4 Blind Duplicate Sample #1

2) mg/L = milligrams per liter (i.e. parts per million)

3) C.U. = Color Units



Lockport Formation Leachate Indicator Exceedances (Continued)

Parameter	Units	MW-27S	GZ-12	GZ-13	GZ-14	GZ-15	GZ-17	GZ-18
Ammonia	mg/L-N		7.88				2.7	
Bromide	mg/L		40.4		11.4		8.7	7.8
Chloride	mg/L		5990		1060		931	791
Sulfate	mg/L	1320	4230	484	748	1130	1870	623
TDS	mg/L	2650	16800	1190	3290	2110	4550	2520
Color	C.U.	100	100	18			130	

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented

4) 2022-Q4 Blind Duplicate Sample #1

5) mg/L = milligrams per liter (i.e. parts per million)

6) C.U. = Color Units

Rochester Formation Leachate Indicators

Part 360 leachate indicators were detected at the site in the Rochester Formation monitoring wells. The table below summarizes the detected concentrations of leachate indicator parameters exceeding the SSSTVs and NYSDEC AWQSGVs. Concentrations exceeding the SSSTVs are presented as **bold** text and concentrations exceeding NYSDEC AWQSGVs are presented with a gray-shaded text. These results are also included in the site-wide summary of exceedances.

Rochester Formation Leachate Indicator Exceedances

Parameter	Units	GZ-7D	GZ-25D	GZ-25D ²	MW-27DD	MW-28D	MW-29D
Ammonia	mg/L-N	11.7	33.7	33.5	37.1	5.61	
Bromide	mg/L	143	674	806	801	49.4	3.2
Chloride	mg/L	14700	59800	62700	72100	4930	609
Sulfate	mg/L	1100	1860	2250	1540	1390	281
Color	C.U.	625		130	150		
Hex. Chrome (T)	mg/L					0.01	
TDS	mg/L	27100	105000	109000	132000	10300	2000
COD	mg/L	1580		3990	5310		
Total Phenolics	mg/L	0.0048					
Total Alkalinity	mg/L					527	
TOC	mg/L						14.3

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

1) mg/L = milligrams per liter (i.e. parts per million).

2) 2022-Q4 Blind Duplicate #2

3) C.U. = Color Units

Lockport Formation Inorganic Analytes

Inorganic analytes (i.e. Metals) were detected at the site in the Lockport Formation monitoring wells. The table below summarizes the detected concentrations of inorganic leachate indicator parameters exceeding the SSSTVs and NYSDEC AWQSGVs. Concentrations exceeding the SSSTVs are presented as **bold** text and concentrations exceeding NYSDEC AWQSGVs are presented with a gray-shaded text. These results are also included in the site-wide summary of exceedances.



Lockport Formation Inorganic Analyte Exceedances (Total Concentrations)

Parameter	Units	GZ-7S	GZ-20SR	GZ-21S	GZ-22S	GZ-23S	GZ-23S ¹	GZ-24S	GS-25S
Arsenic (T)	mg/L				0.007				
Barium (T)	mg/L								
Boron (T)	mg/L		0.99			0.67	0.72	3.95	3.89
Chromium (T)	mg/L								0.096
Iron (T)	mg/L	1.14	59.4	4.72	3.4	1.03	33.8	1.52	2.76
Lead (T)	mg/L		0.035						
Magnesium (T)	mg/L		89.6	46.5	49.7	83.7	90.4	578	2230
Manganese (T)	mg/L		1.29		0.318	0.357	0.468		
Nickel (T)	mg/L								0.036
Sodium (T)	mg/L	44.3	288	167	57.9	117	121	6440	16200
Thallium (T)	mg/L				0.007			0.07	

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

- 1) 2022-Q4 Blind Duplicate #1
- 2) mg/L = milligrams per liter (i.e. parts per million).

Lockport Formation Inorganic Analyte Exceedances (Total Concentrations) (Continued)

Parameter	Units	MW-27S	GZ-12	GZ-13	GZ-14	GZ-15	GZ-17	GZ-18
Aluminum (T)	mg/L				7.79			
Antimony (T)	mg/L						0.007	
Boron (T)	mg/L	0.78	4.62		0.51	0.47	1.18	0.74
Iron (T)	mg/L	1.23		0.51	3.51	0.35	0.43	
Lead (T)	mg/L				0.008			
Magnesium (T)	mg/L	196	269		126	161	249	84.1
Sodium (T)	mg/L	192	4910	251	520	65	607	514

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

- 1) mg/L = milligrams per liter (i.e. parts per million).

Lockport Formation Inorganic Analyte Exceedances (Dissolved Concentrations)

Parameter	Units	GZ-22S	GZ-24S	GS-25S	GZ-12	GZ-13	GZ-17	MW-27S
Boron (D)	mg/L		3.83	3.86	4.64		1.17	0.8
Magnesium (D)	mg/L	40	471	2250	253		236	202
Sodium (D)	mg/L	31	6240	17000	4850	247	631	195

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

- 1) mg/L = milligrams per liter (i.e. parts per million).

Rochester Formation Inorganic Analytes

Inorganic analytes (i.e. Metals) were detected at the site in the Rochester Formation monitoring wells. The table below summarizes the detected concentrations of inorganic leachate indicator parameters exceeding the SSSTVs and NYSDEC AWQSGVs. Concentrations exceeding the SSSTVs are presented as **bold** text and concentrations exceeding NYSDEC AWQSGVs are presented with a gray-shaded text. These results are also included in the site-wide summary of exceedances.



Rochester Formation Inorganic Analyte Exceedances (Total Concentrations)

Parameter	Units	GZ-7D	GZ-22D	GZ-25D ²	GZ-25D	MW-27DD	MW-28D	MW-29D
Arsenic (T)	mg/L					0.009		
Boron (T)	mg/L	4.38	5.29	3.31	3.27	3.59	4.95	2.06
Calcium (T)	mg/L			5160	5090	6900		
Iron (T)	mg/L	4.05	9.1	2.48	1.1	0.4	0.41	0.58
Lead (T)	mg/L	0.031	0.04					
Magnesium (T)	mg/L	455	759	3280	3230	3870	103	
Manganese (T)	mg/L			0.462	0.468	0.735		
Potassium (T)	mg/L					496		
Sodium (T)	mg/L	7240	10100	19600	30400	32400	3870	613
Thallium (T)	mg/L					0.139		
Zinc (T)	mg/L			0.707	0.344			

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

- 1) mg/L = milligrams per liter (i.e. parts per million).
- 2) 2022-Q4 Blind Duplicate #2

Rochester Formation Inorganic Analyte Exceedances (Dissolved Concentrations)

Parameter	Units	GZ-7D	GZ-22D	GZ-25D	GZ-25D ²	MW-27DD
Boron (D)	mg/L		5.21	3.26	3.35	3.64
Calcium (D)	mg/L			5130	5110	6810
Iron (D)	mg/L		2.92			
Magnesium (D)	mg/L		787	3260	3240	3950
Manganese (D)	mg/L	0.464		0.469	0.463	0.722
Potassium (D)	mg/L					509
Sodium (D)	mg/L	21.9	10400	29700	20000	32000
Thallium (D)	mg/L					0.131

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

- 1) mg/L = milligrams per liter (i.e. parts per million).
- 2) 2022-Q4 Blind Duplicate #2

Pond, Sump, GWCM and Leachate System VOCs

The following VOCs were reported at concentrations above their NYSDEC AWQSGVs in 2022-Q4 samples collected from the Pond, Sump, and leachate system locations.

Pond, Sump, GWCM and Leachate System VOC Result Exceedances

Parameter	Units	LF#2
Benzene	ug/L	2.9

Note: Only Gray-Shade (AWQSGVs) exceedance concentrations are presented.

- 1) ug/L = micrograms per liter (i.e. parts per billion).

Pond, GWCM, and Leachate System Part 360 Leachate Indicators

Part 360 leachate indicators were detected at the Site in the Pond, Sump, C&D Primary (i.e. CD1), C&D Secondary (i.e. CD2), Landfill #2 Leachate (i.e. LF#2), and GWCM sampling locations. The table below summarizes the detected concentrations of leachate indicator parameters exceeding the NYSDEC



AWQSGVs for leachate system samples and the NYSDEC AWQSGV or SSSTVs in the Pond and Sump samples. Concentrations exceeding the SSSTVs are presented as **bold** text and concentrations exceeding NYSDEC AWQSGVs are presented with a gray-shaded text. These results are also included in the site-wide summary of exceedances.

Pond, GWCM and Leachate System Leachate Indicator Exceedances

Parameter	Units	Pond	Sump	CDPL	CDSL	LF#2	GWCM
Alkalinity (T)	mg/L						265
Ammonia	mg/L-N					245	
BOD	mg/L	6.8	2.2				
Color	C.U.	15	80	375	110	500	150
Bromide	mg/L		0.5			54.1	
Chloride	mg/L					1190	
Hardness (T)	mg/L		625				625
Sulfate	mg/L		323	1090	1270		319
TDS	mg/L	531	812	2330	2420	3420	832
TKN	mg/L-N	0.81	0.35				0.3
Cyanide (T)	mg/L					0.0107	
Total Phenols	mg/L		0.0039			0.0119	

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

1) mg/L = milligrams per liter (i.e. parts per million).

2) C.U. = Color Units

Pond, GWCM, and Leachate System Inorganic Analytes

Inorganic analytes were detected at the site in the Pond, Sump, CD1, CD2, LF#2, and GWCM sampling locations. The table below summarizes the detected concentrations of inorganic leachate indicator parameters exceeding the SSSTVs and NYSDEC AWQSGVs. Concentrations exceeding the SSSTVs are presented as **bold** text and concentrations exceeding NYSDEC AWQSGVs are presented with a gray-shaded text. These results are also included in the site-wide summary of exceedances.

Pond, GWCM and Leachate System Inorganic Analyte Exceedances (Total Concentrations)

Parameter	Units	Pond	Sump	CDPL	CDSL	LF#2	GWCM
Arsenic (T)	mg/L				0.043		
Barium (T)	mg/L	0.026					0.038
Boron (T)	mg/L					3.41	
Calcium (T)	mg/L		129				153
Iron (T)	mg/L			24.7	165	3.33	1.44
Lead (T)	mg/L				0.116		
Magnesium (T)	mg/L		42.9	135	121	174	46.1
Manganese (T)	mg/L			0.62	0.4		
Sodium (T)	mg/L	29	55.1	21	22	602	35
Thallium (T)				0.008			
Molybdenum (T)	mg/L				0.005		

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

1) mg/L = milligrams per liter (i.e. parts per million).



**Pond, GWCM and Leachate System Inorganic Analyte Exceedances
(Dissolved Concentrations)**

Parameter	Units	Pond	Sump	GWCM
Barium (D)	mg/L			0.03
Calcium (D)	mg/L		126	147
Magnesium (D)	mg/L		42	44.2
Sodium (D)	mg/L	28.8	54.3	34

Note: Only Gray-Shade (AWQSGVs) and/or **Bold** (SSSTVs) exceedance concentrations are presented.

1) mg/L = milligrams per liter (i.e. parts per million).

Should you have any questions regarding this matter please contact me anytime at 716-882-5476 ext. 417.

Sincerely,

LiRo Engineers, Inc.

A handwritten signature in blue ink, appearing to read 'Craig Taylor', is written over a light blue rectangular background.

Craig Taylor
Project Manager

cc: LiRo File 22-033-2914

Attachments



TABLES

Table 1	Site Monitoring Schedule
Table 2	Summary of Gas-Vent Monitoring: 2022 Q1 to Q4
Table 3	Summary of Water Level Data: November 28, 2022
Table 4	Monitoring and Sampling Summary: 2022-Q4
Table 5	Summary of Water Sample Results: 2022 Q1 to Q4

FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Contour Map Lockport Formation – 2022-Q4
Figure 4	Groundwater Contour Map Rochester Formation – 2022-Q4

ATTACHMENTS

Attachment A - Sampling Purge Logs
Attachment B – Data Usability Summary Report
Attachment C – Permitted Facility Annual Report
Attachment D – Inactive Solid Waste Management Facility or Activity Notification Form
Attachment E – Niagara County Refuse Disposal District Quarterly Leachate Totals



TABLES

TABLE 1
SITE MONITORING SCHEDULE
NIAGARA COUNTY REFUSE DISPOSAL DISTRICT
STATE ROUTE 93, LOCKPORT NEW YORK

ACTIVITIES and TASKS			NCRDD 2022 MONITORING and SAMPLING SCHEDULE		
			FREQUENCY	GENERAL NOTES	SPECIFIC INSTRUCTIONS AND COMMENTS
TASK	MONITORING	Gas-Vent Monitoring	Monthly	Landfill Gas-Vent Monitoring at MP-01, MP-02, MP-03 and MP-04	1) Methane (CH ₄) 2) Oxygen (O ₂) 3) Hydrogen Sulfide (H ₂ S) 4) Lower Explosive Limit (LEL)
		Second Leachate Collection System Monitoring	Each Quarter	Measure the quantity of liquid present in the secondary leachate collection system and compare it to an action leakage rate.	--
		Gauge Monitoring Wells and Miscellaneous Locations	Each Quarter	Gauging of Site Monitoring Wells to be completed by Water-Bearing Zone or Formation Group: i.e. Uppermost Water-Bearing Zone, Lockport Formation, and Rochester Formation	Miscellaneous Locations (3 Locations): Sump, Pond, and Groundwater Collector Manhole
					Uppermost Water-Bearing Zone (8 Wells): GZ-04S, GZ-04D, GZ-12, GZ-13, GZ-14, GZ-15, GZ-17, GZ-18
					Lockport (8 Wells): GZ-7S, GZ-20SR, GZ-21S, GZ-22S, GZ-23S, GZ-24S, GZ-25S and MW-27S
					Rochester (7 Wells): GZ-7D, GZ-22D, GZ-25D, MW-26D, MW-27DD, MW-28D and MW-29D
	SAMPLING	NCRDD Routine Parameters	Q1, Q3 and Q4	9 Locations: GZ-07S, GZ-14, GZ-15, GZ-18, GZ-20SR, GZ-21S, GZ-23S, MW-28D, MW-29D	<u>Routine Parameters</u> NH ₃ , BOD, Bromide, COD, Chloride, Total CN, Cr+6, NO ₃ , Sulfate, Alkalinity, TDS, Hardness, TKN, TOC, Total Recoverable Phenolics, and Total Metals ¹
		NCRDD Baseline Parameters	Q1, Q3 and Q4	15 Locations: GZ-07D, GZ-12, GZ-13, GZ-17, GZ-22S, GZ-22D, GZ-24S, GZ-25S, GZ-25D, MW-26D, MW-27DD, MW-27S, Pond, Sump and groundwater manhole collector	<u>Baseline Parameters</u> Routine Parameters Plus: Total and Dissolved Metals ² , Color, and NYSDEC Part 360 VOCs
			Q2	All 24 Locations: (i.e. All Q1, Q3 and Q4 Routine and Baseline Locations)	
		NCRDD Expanded Parameters	Q2 and Q4	3 Locations: C&D Primary Leachate, C&D Secondary Leachate, and Landfill #2 Leachate Storage	<u>Expanded Parameters</u> Baseline Parameters Plus: Total Metals ³ , NYSDEC Part 360 SVOCs, Pesticides, Herbicides, and PCBs
	REPORTING	Quarter	Quarterly Summary Report (Q1, Q2 and Q3)	All Data	--
		Annual	Annual Summary Report (with Q4)	All Data	--

Notes:

1) Routine Total Metals (9): Cd, Ca, Fe, Pb, Mg, Mn, K, Na and Boron

2) Baseline Total and Dissolved Metals (22): Al, Sb, As, Ba, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, K, Se, Ag, Na, Hg, Tl, V, Zn and Boron

3) Expanded Total Metals (22): Al, Sb, As, Ba, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, K, Se, Ag, Na, Hg, Tl, V, Zn and Boron

TABLE 2
SUMMARY OF GAS-VENT MONITORING
2022 Q1 to Q4
NCRDD-NIAGARA COUNTY REFUSE DISPOSAL DISTRICT
400 HINMAN AVENUE, LOCKPORT, NEW YORK

Well Designation	Date Measured	Hyrogen Sulfide (ppm)	Methane (%)	LEL (%)	Oxygen (%)	Comments
MP-1	Jan-2022	NM	NM	NM	NM	Monitoring Not Conducted
MP-2	Jan-2022	NM	NM	NM	NM	Monitoring Not Conducted
MP-3	Jan-2022	NM	NM	NM	NM	Monitoring Not Conducted
MP-4	Jan-2022	NM	NM	NM	NM	Monitoring Not Conducted
MP-1	2/17/2022	0.00	0.10	0.00	20.90	
MP-2	2/17/2002	0.00	0.00	0.00	20.90	
MP-3	2/17/2022	NM	NM	NM	NM	Inaccessible: Flooded
MP-4	2/17/2022	NM	NM	NM	NM	Inaccessible: Flooded
MP-1	3/28/2022	0.00	0.10	0.00	20.90	
MP-2	3/28/2022	0.00	0.00	0.00	20.90	
MP-3	3/28/2022	0.00	0.00	0.00	20.90	
MP-4	3/28/2022	0.00	0.00	0.00	20.90	
MP-1	4/13/2022	0.00	0.00	2.00	20.90	
MP-2	4/13/2022	0.00	0.00	2.00	20.90	
MP-3	4/13/2022	0.00	0.00	2.00	20.90	
MP-4	4/13/2022	0.00	0.00	2.00	20.90	
MP-1	5/11/2022	0.00	0.00	0.00	20.90	
MP-2	5/11/2022	0.00	0.00	0.00	20.90	
MP-3	5/11/2022	0.00	0.00	0.00	20.90	
MP-4	5/11/2022	0.00	0.00	0.00	20.90	
MP-1	6/1/2022	0.00	0.00	0.00	20.90	
MP-2	6/1/2022	0.00	0.00	0.00	20.90	
MP-3	6/1/2022	0.00	0.00	0.00	20.90	
MP-4	6/1/2022	0.00	0.00	0.00	20.90	
MP-1	7/13/2022	0.00	0.00	0.00	20.90	
MP-2	7/13/2022	0.00	0.00	0.00	20.90	
MP-3	7/13/2022	0.00	0.00	0.00	20.90	
MP-4	7/13/2022	0.00	0.00	0.00	20.90	
MP-1	8/9/2022	0.00	0.00	0.00	20.90	
MP-2	8/9/2022	0.00	0.00	0.00	20.90	
MP-3	8/9/2022	0.00	0.00	0.00	20.90	
MP-4	8/9/2022	0.00	0.00	0.00	20.90	
MP-1	9/22/2022	0.00	0.00	0.00	20.90	
MP-2	9/22/2022	0.00	0.00	0.00	20.90	
MP-3	9/22/2022	0.00	0.00	0.00	20.90	
MP-4	9/22/2022	0.00	0.00	0.00	20.90	
MP-1	10/12/2022	0.00	0.00	0.00	20.40	
MP-2	10/12/2022	0.00	0.00	0.00	20.40	
MP-3	10/12/2022	0.00	0.00	0.00	20.40	
MP-4	10/12/2022	0.00	0.00	0.00	20.40	
MP-1	11/30/2022	0.00	0.00	0.00	20.10	
MP-2	11/30/2022	0.00	0.00	0.00	20.10	
MP-3	11/30/2022	0.00	0.00	0.00	20.10	
MP-4	11/30/2022	0.00	0.00	0.00	20.10	
MP-1	12/14/2022	0.00	0.00	0.00	19.90	
MP-2	12/14/2022	0.00	0.00	0.00	19.90	
MP-3	12/14/2022	0.00	0.00	0.00	19.90	
MP-4	12/14/2022	0.00	0.00	0.00	19.90	

TABLE 3
SUMMARY OF WATER LEVEL DATA: NOVEMBER 28, 2022
NIAGARA COUNTY REFUSE DISPOSAL DISTRICT
STATE ROUTE 93, LOCKPORT, NEW YORK

Well Designation	Date Measured	Measuring Point Elevation	Depth to Water (ft)	Groundwater Elevation (ft)	Comments
GZ-7S	11/28/2022	561.50	10.70	550.80	
GZ-7D	11/28/2022	561.60	20.34	541.26	
Collector	11/28/2022	NA	20.50	NA	
Pond	11/28/2022	NA	19.63	NA	
GZ-21S	11/28/2022	598.00	40.40	557.60	
GZ-22S	11/28/2022	560.50	9.40	551.10	
GZ-22D	11/28/2022	560.40	62.10	498.30	
GZ-23S	11/28/2022	557.10	6.50	550.60	
GZ-24S	11/28/2022	624.00	73.60	550.40	
GZ-25S	11/28/2022	622.00	72.48	549.52	
GZ-25D	11/28/2022	620.80	85.20	535.60	
GZ-17	11/28/2022	578.90	26.60	552.30	
GZ-18	11/28/2022	552.30	2.50	549.80	
MW-26D	11/28/2022	557.34	NM	NA	Dry.
MW-27S	11/28/2022	565.69	13.20	552.49	
MW-27DD	11/28/2022	565.09	22.10	542.99	
MW-28D	11/28/2022	559.97	19.40	540.57	
MW-29D	11/28/2022	598.71	51.50	547.21	
GZ-15	11/28/2022	552.50	3.20	549.30	
GZ-14	11/28/2022	554.00	4.40	549.60	
GZ-13	11/28/2022	564.30	11.20	553.10	
GZ-12	11/28/2022	603.20	51.75	551.45	
GZ-20SR	11/28/2022	596.00	20.90	575.10	
Landfill#2 leachate	11/28/2022		18.50		
C&D primary leachate	11/28/2022		11.90		
C&D Secondary leachate	11/28/2022		12.80		

Notes:

- 1) NA - Not Available
- 2) NM - Not Measured
- 3) All depths are presented in feet from measuring point.
- 4) Groundwater elevations are presented in feet as referenced to mean sea level.

TABLE 4
MONITORING AND SAMPLING SUMMARY: 2022-Q4
NIAGARA COUNTY REFUSE DISPOSAL DISTRICT
STATE ROUTE 93, LOCKPORT NEW YORK

WELL CONSTRUCTION DATA, QUARTERLY MONITORING AND SAMPLING SUMMARY													
Location ID	Date of Purging	Sampling Date	Sampling Time	Purge Start Time	Measuring Point Elevation (feet AMSL)	Depth to Groundwater (ft.)	Groundwater Elevation (feet)	Bottom of Well (feet)	Single Well Volume (gallon)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp (°C)
GZ-7S	11/28/2022	11/28/2022	10:05 AM	9:58 AM	561.50	10.70	550.80	24.35	2.00	6.85	1.28	176	11.07
GZ-7D	11/28/2022	11/28/2022	9:45 AM	9:38 AM	561.60	20.34	541.26	30.00	1.00	7.10	38.8	883.0	9.80
GZ-8S	--	--	--	--	592.60	--	--	60.00	--	--	--	--	--
GZ-8D (R)	--	--	--	--	590.50	--	--	97.15	--	--	--	--	--
GZ-10S	--	--	--	--	595.30	--	--	45.35	--	--	--	--	--
GZ-10D	--	--	--	--	597.70	--	--	110.00	--	--	--	--	--
GZ-12	11/28/2022	11/28/2022	1:20 PM	1:08 PM	603.20	51.75	551.45	82.00	4.50	7.12	22.6	79.1	10.50
GZ-13	11/28/2022	11/29/2022	11:45 AM	11:38 AM	564.30	11.20	553.10	29.70	2.50	6.88	2.04	83.0	11.62
GZ-14	11/29/2022	11/29/2022	12:45 PM	12:36 PM	554.00	4.40	549.60	18.50	2.50	7.00	5.39	406	13.09
GZ-15	11/29/2022	11/29/2022	1:00 PM	12:52 PM	552.50	3.20	549.30	10.10	1.00	6.91	2.95	19.6	10.16
GZ-17	11/30/2022	11/30/2022	9:50 AM	8:42 AM	578.90	26.60	552.30	47.70	3.00	6.93	6.20	137.0	10.96
GZ-18	11/28/2022	11/29/2022	1:15 PM	1:09 PM	552.30	2.50	549.80	19.60	3.00	6.99	5.20	49.5	12.43
GZ-20S (R)	11/28/2022	11/28/2022	8:47 AM	8:40 AM	596.00	20.9	575.10	44.30	3.50	7.02	3.73	193	11.1
GZ-21S	11/28/2022	11/28/2022	12:20 PM	12:12 PM	598.00	40.40	557.60	58.80	2.50	6.96	2.39	74.2	9.94
GZ-22S	11/28/2022	11/28/2022	11:05 AM	11:00 AM	560.50	9.40	551.10	22.10	2.00	6.93	1.12	64	11.36
GZ-22D	11/28/2022	11/30/2022	10:30 AM	11:17 AM	560.40	62.10	498.30	63.35	0.30	7.04	17.90	64	10.08
GZ-23S	11/28/2022	11/28/2022	10:45 AM	10:40 AM	557.10	6.50	550.60	20.30	2.00	6.95	2.18	90.2	13.17
GZ-24S	11/29/2022	11/29/2022	10:00 AM	9:48 AM	624.00	73.60	550.40	85.10	1.50	6.94	27.2	49.4	9.90
GZ-25S	11/29/2022	11/29/2022	9:22 AM	9:15 AM	622.00	72.48	549.52	83.70	1.50	6.89	91.9	240	10.10
GZ-25D	11/29/2022	11/29/2022	8:45 AM	8:35 AM	620.80	85.20	535.60	110.00	3.50	6.91	>100	70.6	9.10
MW-26D	--	--	--	--	557.34	NA	NA	40.20	--	--	--	--	--
MW-27S	11/30/2022	11/30/2022	8:40 AM	8:32 AM	565.69	13.20	552.49	32.60	3.50	7.05	4.09	92.8	11.95
MW-27D	--	--	--	--	565.69	NA	NA	50.30	--	--	--	--	--
MW-27DD	11/30/2022	11/30/2022	9:30 AM	8:55 AM	565.09	22.10	542.99	74.40	8.40	7.08	>100	75.5	10.79
MW-28D	11/28/2022	11/28/2022	12:20 PM	11:30 AM	559.97	19.40	540.57	76.30	9.00	7.02	17.9	71.2	9.80
MW-29D	11/28/2022	11/28/2022	12:45 PM	12:33 PM	598.71	51.50	547.21	113.00	9.80	6.98	3.37	32.5	9.98
Groundwater Collector	--	11/29/2022	10:25 AM	10:22 AM	NA	20.5	NA	NA	NA	6.94	14.10	26.6	9.69
Sump	--	11/30/2022	9:40 AM	9:39 AM	NA	NA	NA	NA	NA	7	72	55.3	8.93
Pond	--	11/28/2022	1:45 PM	1:44 PM	NA	19.63	NA	NA	NA	7.03	5.37	17.8	5.20
Landfill #2 Leachate Storage	--	11/29/2022	1:50 PM	1:48 PM	NA	18.5	NA	NA	NA	6.99	7.68	52.1	14.01
C&D Primary Leachate	--	11/29/2022	12:00 PM	11:59 AM	NA	11.9	NA	NA	NA	6.9	2.62	113	12.17
C&D Secondary Leachate	--	11/29/2022	11:10 AM	11:07 AM	NA	12.8	NA	NA	NA	7.01	2.78	160	10.35

Notes:

NA = Not Applicable

-- = Not Sampled

Over = Turbidity measurement was over the meter range (>1,000)

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-7S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH	S.U.	6.5-8.5	5.79-8.60	(FPHSU)		9.51	7.76	8.21	6.85
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)		3.12	1.89	2.06	1.28
Temperature	deg. C	NA	18.6	(TEMP)		10.2	13.17	15.28	11.07
Turbidity	NTU	5	252.7	(TURB)		870	238	963	176
Aluminum - Total	MG/L	NA	7.538	T7429-90-5		3.89	3.08		
Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5					
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0					
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0					
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2		0.0067 J	0.009 J		
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2					
Barium - Total	MG/L	1	0.2145	T7440-39-3		0.0492	0.067		
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3			0.032		
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7			0.0002 J		
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7					
Boron - Total	MG/L	1	0.44	T7440-42-8		0.207	0.18 J	0.19 J	0.05 J
Boron, Dissolved	MG/L	1	0.44	T7440-42-8					
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9		0.0007 J	0.0022 J	0.0045 J	0.0005 J
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9					
Calcium - Total	MG/L	NA	4442.1	T7440-70-2		142	170	201	137
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2			80.3		
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3		0.0119	0.028		
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3			0.017		
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4		0.0015 J	0.002 J		
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4					
Copper - Total	MG/L	0.2	0.0788	T7440-50-8		0.0042 J	0.011 J		
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8					
Iron - Total	MG/L	0.3	16.1	T7439-89-6		2.58 E	3.78	19.3	1.14
Iron, Dissolved	MG/L	0.3	16.1	T7439-89-6					
Lead - Total	MG/L	0.025	0.0076	T7439-92-1		0.0079 J	0.04 J	0.064	0.004 J
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1					
Magnesium - Total	MG/L	35	3030.4	T7439-95-4		13.1	27.3	31.8	3.3
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4			7.5		
Manganese - Total	MG/L	0.3	0.616	T7439-96-5		0.056	0.214	0.39	0.03
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5					
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6					
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6					
Nickel - Total	MG/L	0.1	0.015	T7440-02-0			0.007 J		
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0					
Potassium - Total	MG/L	NA	443.5	T7440-09-7		19.6	20.3	31.1	18.7
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7			19.2		
Selenium - Total	MG/L	0.01	0.004	T7782-49-2					
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2					
Silver - Total	MG/L	0.05	0.0545	T7440-22-4					
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4					
Sodium - Total	MG/L	20	24505.9	T7440-23-5		143	155	116	44.3
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5			157		
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0			0.008 J		
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0					
Vanadium - Total	MG/L	NA	0.015	T7440-62-2		0.0058 J	0.005 J		
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2					
Zinc - Total	MG/L	2	0.2437	T7440-66-6		0.024	0.081		
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6					
Ammonia	MG/L-N	2	38.5	7664-41-7		2.59	2.23	1.83	0.595
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD		2.1			
Bromide	MG/L	2	417.5	BROMIDE		1.3		0.8 J	
Chemical Oxygen Demand	MG/L	NA	862.4	COD		3.8	9.5	9.4	
Chloride	MG/L	250	46347.8	CL		149	129	105	43.1
Color	C.U.	15	93.6	COLOR			2		
Cyanide - Total	MG/L	0.2	0.005	T57-12-5					
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				0.028	0.063
Nitrate	MG/L-N	10	0.9	NITRATE			3.3		0.4 J
Sulfate	MG/L	250	5890.3	SULFATE		382	400	345	208
Total Alkalinity	MG/L	NA	981.2	TALK		33.3	47.2		113
Total Dissolved Solids	MG/L	500	75646.2	TDS		854	919	768	499
Total Hardness	MG/L	NA	23726.9	THARD		417	440	767	500
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN		2.96	2.84	2.45	0.9
Total Organic Carbon	MG/L	NA	21.2	TOC		2.7	3.3	3.1	1.8
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS			0.0032 J		

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-7S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3		1.1 J		
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7				
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7				
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3		0.96 J		
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only								
J = Estimated Value								
S.U. = standard units								
ms/cm = millisiemens per centimeter								
deg. C = degrees in Celsius								
N.T.U. = nephelometric turbidity units								
MG/L = milligrams per liter								
UG/L = micrograms per liter								
C.U. = color units								
MG/L-N = nitrogen/nitrate								
NR = Not Included in Laboratory Report								
Bold = Analyte exceeds NCRDD Landfill trigger value								
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance								
Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-20S [R]	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	2.92-13.96	(FPHSU)	7.0	7.17	6.79	7.02
Specific Conductance	umhos/cm	NA	20992.6	(FSPECN)	2.7	7.05	10.1	3.73
Temperature	deg. C	NA	17.2	(TEMP)	9.5	13.77	14	11.1
Turbidity	NTU	5	313.9	(TURB)	445.0	157	154	193
Aluminum - Total	MG/L	NA	8.433	T7429-90-5		5.5		
Aluminum, Dissolved	MG/L	NA	8.433	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0172	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0172	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2	0.0183			
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.4659	T7440-39-3	0.594	0.149		
Barium, Dissolved	MG/L	1	0.4659	T7440-39-3		0.08		
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7		0.0003 J		
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.4	T7440-42-8	0.841	1.63	1.81	0.99
Boron, Dissolved	MG/L	1	2.3	T7440-42-8		1.6		
Cadmium - Total	MG/L	0.01	0.0056	T7440-43-9	0.0023 J	0.0005 J		0.0013 J
Cadmium, Dissolved	MG/L	0.01	0.0056	T7440-43-9				
Calcium - Total	MG/L	NA	717.6	T7440-70-2		375	376	312
Calcium, Dissolved	MG/L	NA	717.6	T7440-70-2		337		
Chromium - Total	MG/L	0.05	0.0712	T7440-47-3	0.441	0.011		
Chromium, Dissolved	MG/L	0.05	0.0712	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4		0.004 J		
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.7905	T7440-50-8		0.006 J		
Copper, Dissolved	MG/L	0.2	0.7905	T7440-50-8				
Iron - Total	MG/L	0.3	27.4	T7439-89-6	122	16.5	27	59.4
Iron, Dissolved	MG/L	0.3	27.4	T7439-89-6				
Lead - Total	MG/L	0.025	0.0603	T7439-92-1	0.0645	0.006 J	0.003 J	0.035 J
Lead, Dissolved	MG/L	0.025	0.0603	T7439-92-1				
Magnesium - Total	MG/L	35	108.11	T7439-95-4		107	104	89.6
Magnesium, Dissolved	MG/L	35	108.11	T7439-95-4		103		
Manganese - Total	MG/L	0.3	0.4782	T7439-96-5		0.88	0.951	1.29
Manganese, Dissolved	MG/L	0.3	0.4782	T7439-96-5		0.72		
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6	0.00008 J			
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.0492	T7440-02-0		0.012 J		
Nickel, Dissolved	MG/L	0.1	0.0492	T7440-02-0				
Potassium - Total	MG/L	NA	93.75	T7440-09-7		30.8	31	41.8
Potassium, Dissolved	MG/L	NA	93.75	T7440-09-7		29		
Selenium - Total	MG/L	0.01	0.0075	T7782-49-2	0.01			
Selenium, Dissolved	MG/L	0.01	0.0075	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4	0.0012 J			
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	1903.46	T7440-23-5		574	600	288
Sodium, Dissolved	MG/L	20	1903.46	T7440-23-5		559		
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0		0.008 J		
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2		0.008 J		
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.3792	T7440-66-6		0.304		
Zinc, Dissolved	MG/L	2	0.3792	T7440-66-6				
Ammonia	MG/L-N	2	2.9	7664-41-7	0.73	0.791	0.814	0.471
Biochemical Oxygen Demand	MG/L	NA	35.8	BOD	6.6			3.4
Bromide	MG/L	2	8.0	BROMIDE	3.4	6.9	5.9	3
Chemical Oxygen Demand	MG/L	NA	525.3	COD	65.5	42.2	24.4	
Chloride	MG/L	250	1386.4	CL	318	643	603	299
Color	C.U.	15	180.8	COLOR		8		
Cyanide - Total	MG/L	0.2	0.005	T57-12-5	0.0043 J			
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
Nitrate	MG/L-N	10	0.31	NITRATE			0.6 J	2.9
Sulfate	MG/L	250	1950.0	SULFATE	629	1210	820	780
Total Alkalinity	MG/L	NA	554.4	TALK	341	336	340	350
Total Dissolved Solids	MG/L	500	4658.5	TDS	1840	3380	3320	1870
Total Hardness	MG/L	NA	2152.0	THARD	1350	800	1550	833
Total Kjeldahl Nitrogen	MG/L-N	NA	4.3	TKN	1.5	3.5 J		1.54
Total Organic Carbon	MG/L	NA	13.6	TOC		12.9	5.4	7.2
Total Recoverable Phenolics	MG/L	0.001	0.01	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-20S [R]	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	6.5	78-93-3		5 J		
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1				
Acetone	UG/L	50	5.9	67-64-1		5.9 J		
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	8.7	71-43-2		0.73 J		
Bromochloromethane	UG/L	5	3.9	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	3.9	74-83-9				
Carbon Disulfide	UG/L	60	69.6	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	16.3	67-66-3				
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.9	124-48-1				
Dibromomethane	UG/L	5	3.9	74-95-3				
Ethylbenzene	UG/L	5	2.5	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7				
Methylene chloride	UG/L	5	11.8	75-09-2				
o-Xylenes	UG/L	5	2.5	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	10.7	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-21S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	2.92-13.96	(FPHSU)	7.3	6.58	6.95	6.96
Specific Conductance	umhos/cm	NA	20992.6	(FSPECON)	3.6	2.18	2.98	2.39
Temperature	deg. C	NA	17.2	(TEMP)	9.8	15.72	12.73	9.94
Turbidity	NTU	5	313.9	(TURB)	27.1	71.9	90.10	74.2
Aluminum - Total	MG/L	NA	8.43	T7429-90-5	0.0785 J	0.3		
Aluminum, Dissolved	MG/L	NA	8.43	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0172	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0172	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.4659	T7440-39-3	0.0145 J	0.029		
Barium, Dissolved	MG/L	1	0.4659	T7440-39-3		0.026		
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	2.3	T7440-42-8	0.239	0.25	0.23	0.29
Boron, Dissolved	MG/L	1	2.3	T7440-42-8		0.25		
Cadmium - Total	MG/L	0.01	0.0056	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0056	T7440-43-9				
Calcium - Total	MG/L	NA	717.6	T7440-70-2	106	99.8	103	97
Calcium, Dissolved	MG/L	NA	717.6	T7440-70-2		98.9		
Chromium - Total	MG/L	0.05	0.0712	T7440-47-3	0.0093 J	0.008 J		
Chromium, Dissolved	MG/L	0.05	0.0712	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4				
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.7905	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.7905	T7440-50-8				
Iron - Total	MG/L	0.3	27.4	T7439-89-6	3.61	2.93	3.57	4.72
Iron, Dissolved	MG/L	0.3	27.4	T7439-89-6				
Lead - Total	MG/L	0.025	0.0603	T7439-92-1				
Lead, Dissolved	MG/L	0.025	0.0603	T7439-92-1				
Magnesium - Total	MG/L	35	108.1	T7439-95-4	51.3	48.6	49.4	46.5
Magnesium, Dissolved	MG/L	35	108.1	T7439-95-4		48.2		
Manganese - Total	MG/L	0.3	0.478	T7439-96-5	0.0529 E	0.043	0.068	0.088
Manganese, Dissolved	MG/L	0.3	0.478	T7439-96-5		0.034		
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.0492	T7440-02-0	0.0034 J	0.004 J		
Nickel, Dissolved	MG/L	0.1	0.0492	T7440-02-0				
Potassium - Total	MG/L	NA	93.75	T7440-09-7	8.43 E	8	7.4	8.6
Potassium, Dissolved	MG/L	NA	93.75	T7440-09-7		7.8		
Selenium - Total	MG/L	0.01	0.0075	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.0075	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	1903.5	T7440-23-5	153	157	145	167
Sodium, Dissolved	MG/L	20	1903.5	T7440-23-5		157		
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0				
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.3792	T7440-66-6	0.0042 J	0.009 J		
Zinc, Dissolved	MG/L	2	0.3792	T7440-66-6				
Ammonia	MG/L-N	2	2.9	7664-41-7	0.411	0.272	0.298	0.54
Biochemical Oxygen Demand	MG/L	NA	35.8	BOD		13.6		
Bromide	MG/L	2	8.0	BROMIDE				0.5 J
Chemical Oxygen Demand	MG/L	NA	525.3	COD	6.9	7.2	7	
Chloride	MG/L	250	1386.4	CL	204	184	183	204
Color	C.U.	15	180.8	COLOR	34	5		
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
Nitrate	MG/L-N	10	0.31	NITRATE		1.1		
Sulfate	MG/L	250	1950.0	SULFATE	169	137	125	128
Total Alkalinity	MG/L	NA	554.4	TALK	386	392	387	403
Total Dissolved Solids	MG/L	500	4658.5	TDS	930	892	871	928
Total Hardness	MG/L	NA	2152.0	THARD	533	567	550	500
Total Kjeldahl Nitrogen	MG/L-N	NA	4.3	TKN	0.71	0.54		1.01
Total Organic Carbon	MG/L	NA	13.6	TOC	1.5	2.9	2.6	3
Total Recoverable Phenolics	MG/L	0.001	0.01	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-21S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	6.5	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1				
Acetone	UG/L	50	5.9	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	8.7	71-43-2				
Bromochloromethane	UG/L	5	3.9	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	3.9	74-83-9				
Carbon Disulfide	UG/L	60	69.6	75-15-0		2.8	J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	16.3	67-66-3				
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.9	124-48-1				
Dibromomethane	UG/L	5	3.9	74-95-3				
Ethylbenzene	UG/L	5	2.5	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7				
Methylene chloride	UG/L	5	11.8	75-09-2				
o-Xylenes	UG/L	5	2.5	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	10.7	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-22S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH		S.U.	6.5-8.5	5.79-8.6	(FPHSU)	7.2	6.05	6.72	6.93
Specific Conductance		umhos/cm	NA	134435.8	(FSPECN)	4.0	1.64	2.29	1.12
Temperature		deg. C	NA	18.6	(TEMP)	10.1	11.8	14.93	11.36
Turbidity		NTU	5	252.7	(TURB)	172.1	110	221	64.4
Aluminum - Total		MG/L	NA	7.538	T7429-90-5	16.8	2.45	1.98	0.45
Aluminum, Dissolved		MG/L	NA	7.538	T7429-90-5				
Antimony - Total		MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved		MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total		MG/L	0.025	0.005	T7440-38-2	0.0149			0.007 J
Arsenic, Dissolved		MG/L	0.025	0.005	T7440-38-2				
Barium - Total		MG/L	1	0.2145	T7440-39-3	0.162	0.101	0.097	0.072
Barium, Dissolved		MG/L	1	0.2145	T7440-39-3	0.12	0.085	0.09	0.051
Beryllium - Total		MG/L	0.003	0.0015	T7440-41-7	0.0007 J	0.0002 J		
Beryllium, Dissolved		MG/L	0.003	0.0015	T7440-41-7				
Boron - Total		MG/L	1	0.44	T7440-42-8	1.05	0.59	0.5	0.37
Boron, Dissolved		MG/L	1	0.44	T7440-42-8	0.924	0.53	0.49	0.24
Cadmium - Total		MG/L	0.01	0.0043	T7440-43-9	0.0006 J			
Cadmium, Dissolved		MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total		MG/L	NA	4442.1	T7440-70-2	289	223	191	184
Calcium, Dissolved		MG/L	NA	4442.1	T7440-70-2	181	176	178	167
Chromium - Total		MG/L	0.05	0.0159	T7440-47-3	0.0185	0.004 J	0.003 J	
Chromium, Dissolved		MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total		MG/L	NA	0.0162	T7440-48-4	0.0057 J	0.0009 J	0.001 J	
Cobalt, Dissolved		MG/L	NA	0.0162	T7440-48-4			0.001 J	
Copper - Total		MG/L	0.2	0.0788	T7440-50-8	0.0108 J			
Copper, Dissolved		MG/L	0.2	0.0788	T7440-50-8				
Iron - Total		MG/L	0.3	16.14	T7439-89-6	21.9	4.22	5.43	3.4
Iron, Dissolved		MG/L	0.3	16.14	T7439-89-6	0.0628 J			
Lead - Total		MG/L	0.025	0.0076	T7439-92-1	0.0293 J			
Lead, Dissolved		MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total		MG/L	35	3030.4	T7439-95-4	129	82.2	57.4	49.7
Magnesium, Dissolved		MG/L	35	3030.4	T7439-95-4	75.3	56.2	51.7	40
Manganese - Total		MG/L	0.3	0.616	T7439-96-5	0.621	0.424	0.318	0.318
Manganese, Dissolved		MG/L	0.3	0.616	T7439-96-5	0.261	0.274	0.273	0.281
Mercury - Total		MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved		MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total		MG/L	0.1	0.015	T7440-02-0	0.0106 J		0.004 J	0.003 J
Nickel, Dissolved		MG/L	0.1	0.015	T7440-02-0	0.0037 J			
Potassium - Total		MG/L	NA	443.5	T7440-09-7	38.9	20	17.9	12.2
Potassium, Dissolved		MG/L	NA	443.5	T7440-09-7	29.2	17.6	17.4	9.1
Selenium - Total		MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved		MG/L	0.01	0.004	T7782-49-2				
Silver - Total		MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved		MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total		MG/L	20	24505.9	T7440-23-5	165	116	99.2	57.9
Sodium, Dissolved		MG/L	20	24505.9	T7440-23-5	157	107	102	31
Thallium - Total		MG/L	0.0005	0.0167	T7440-28-0				0.007 J
Thallium, Dissolved		MG/L	0.0005	0.0167	T7440-28-0			0.011	
Vanadium - Total		MG/L	NA	0.015	T7440-62-2	0.0193	0.004 J	0.003 J	0.001 B.J
Vanadium, Dissolved		MG/L	NA	0.015	T7440-62-2	0.001 J			
Zinc - Total		MG/L	2	0.2437	T7440-66-6	0.0669	0.017 J	0.009 J	
Zinc, Dissolved		MG/L	2	0.2437	T7440-66-6	0.0067 J			
Ammonia		MG/L-N	2	38.5	7664-41-7	10.5	7.5	7.17	2.65
Biochemical Oxygen Demand		MG/L	NA	93.6	BOD	7.6	10.1	5.9	4.9
Bromide		MG/L	2	417.5	BROMIDE	5.5	3.6	3.2	0.7 J
Chemical Oxygen Demand		MG/L	NA	862.4	COD	31.3	41.2	38.2	
Chloride		MG/L	250	46347.8	CL	253	142	158	31
Color		C.U.	15	93.6	COLOR	9.0	2	50	170
Cyanide - Total		MG/L	0.2	0.0	T57-12-5	0.0048 J			
Hexavalent Chromium - Total		MG/L	0.05	0.0	T18540-29-9				
Nitrate		MG/L-N	10	0.9	NITRATE				
Sulfate		MG/L	250	5890.3	SULFATE	97.4	97.2	69.9	42.2
Total Alkalinity		MG/L	NA	981.2	TALK	773	651	650	588
Total Dissolved Solids		MG/L	500	75646.2	TDS	1300	999	999	680
Total Hardness		MG/L	NA	23726.9	THARD	1250	1000	867	733
Total Kjeldahl Nitrogen		MG/L-N	NA	43.7	TKN	11.2	7.1	8.34	3.01
Total Organic Carbon		MG/L	NA	21.2	TOC	10.5	28.6	12.6	6.9
Total Recoverable Phenolics		MG/L	0.001	0.02	TPHENOLS		0.0036 J		

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-22S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3	0.26 J	0.23 J	0.25 J	0.23 J
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7	0.4 J	0.28 J	0.34 J	0.2 J
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0		3.3 J	1.4 J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7	1.2 J	0.85 J	0.8 J	0.48 J
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7	0.22 J			
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-23S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
	pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.3	5.9	6.76	6.95
	Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	3.0	2.94	4.83	2.18
	Temperature	deg. C	NA	18.6	(TEMP)	13.0	14.15	18.44	13.17
	Turbidity	NTU	5	252.7	(TURB)	46.6	76	28.3	90.2
	Aluminum - Total	MG/L	NA	7.538	T7429-90-5	0.124	0.1		
	Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
	Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
	Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
	Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
	Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
	Barium - Total	MG/L	1	0.2145	T7440-39-3	0.2	0.274		
	Barium, Dissolved	MG/L	1	0.2145	T7440-39-3		0.269		
	Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
	Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
	Boron - Total	MG/L	1	0.44	T7440-42-8	1.07	0.81	0.95	0.67
	Boron, Dissolved	MG/L	1	0.44	T7440-42-8		0.74		
	Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
	Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
	Calcium - Total	MG/L	NA	4442.1	T7440-70-2	215	221	225	230
	Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		223		
	Chromium - Total	MG/L	0.05	0.0159	T7440-47-3	0.0017	J		
	Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
	Cobalt - Total	MG/L	NA	0.0162	T7440-48-4	0.001	J		
	Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
	Copper - Total	MG/L	0.2	0.0788	T7440-50-8				
	Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
	Iron - Total	MG/L	0.3	16.14	T7439-89-6	0.512	E	0.46	1.03
	Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
	Lead - Total	MG/L	0.025	0.0076	T7439-92-1				
	Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
	Magnesium - Total	MG/L	35	3030.4	T7439-95-4	83.7	80.5	82.5	83.7
	Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		77.8		
	Manganese - Total	MG/L	0.3	0.616	T7439-96-5	0.378	0.416	0.392	0.357
	Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.434		
	Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
	Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
	Nickel - Total	MG/L	0.1	0.015	T7440-02-0	0.0047	J		
	Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
	Potassium - Total	MG/L	NA	443.5	T7440-09-7	35.9	26.4	28	21.6
	Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		23.9		
	Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
	Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
	Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
	Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
	Sodium - Total	MG/L	20	24505.9	T7440-23-5	149	124	136	117
	Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		117		
	Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.01			
	Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0				
	Vanadium - Total	MG/L	NA	0.015	T7440-62-2	0.0008	J		
	Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
	Zinc - Total	MG/L	2	0.2437	T7440-66-6	0.0026	J	0.004	J
	Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
	Ammonia	MG/L-N	2	38.5	7664-41-7	18.2	9.2	10.6	6.5
	Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	7.4	4.3	5.6	3.6
	Bromide	MG/L	2	417.5	BROMIDE	4.2	2.6	4.5	2.4
	Chemical Oxygen Demand	MG/L	NA	862.4	COD	42.7	23.7	39.3	6.3
	Chloride	MG/L	250	46347.8	CL	224	174	269	180
	Color	C.U.	15	93.6	COLOR		3		
	Cyanide - Total	MG/L	0.2	0.0	T57-12-5				
	Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
	Nitrate	MG/L-N	10	0.9	NITRATE				
	Sulfate	MG/L	250	5890.3	SULFATE	321	395	295	472
	Total Alkalinity	MG/L	NA	981.2	TALK	678	502	625	462
	Total Dissolved Solids	MG/L	500	75646.2	TDS	1450	1410	1520	1520
	Total Hardness	MG/L	NA	23726.9	THARD	870	1150	1000	933
	Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	19	10.8	11.9	7.3
	Total Organic Carbon	MG/L	NA	21.2	TOC	10.6	7.2	11.1	6.1
	Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS		0.0045	J	0.0066

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-23S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1		0.24 J		
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7		1.3 J		
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0		3.3 J		
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7		1.7 J		
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7				
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-23S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
	pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.3	5.9	6.76	6.95
	Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	3.0	2.94	4.83	2.18
	Temperature	deg. C	NA	18.6	(TEMP)	13.0	14.15	18.44	13.17
	Turbidity	NTU	5	252.7	(TURB)	46.6	76	28.3	90.2
	Aluminum - Total	MG/L	NA	7.538	T7429-90-5	0.124	0.1		
	Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
	Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
	Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
	Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
	Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
	Barium - Total	MG/L	1	0.2145	T7440-39-3	0.2	0.274		
	Barium, Dissolved	MG/L	1	0.2145	T7440-39-3		0.269		
	Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
	Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
	Boron - Total	MG/L	1	0.44	T7440-42-8	1.07	0.81	0.96	0.72
	Boron, Dissolved	MG/L	1	0.44	T7440-42-8		0.74		
	Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				0.0019 J
	Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
	Calcium - Total	MG/L	NA	4442.1	T7440-70-2	215	221	225	250
	Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		223		
	Chromium - Total	MG/L	0.05	0.0159	T7440-47-3	0.0017 J			
	Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
	Cobalt - Total	MG/L	NA	0.0162	T7440-48-4	0.001 J			
	Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
	Copper - Total	MG/L	0.2	0.0788	T7440-50-8				
	Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
	Iron - Total	MG/L	0.3	16.14	T7439-89-6	0.512 E	0.46	0.08 J	33.8
	Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
	Lead - Total	MG/L	0.025	0.0076	T7439-92-1				
	Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
	Magnesium - Total	MG/L	35	3030.4	T7439-95-4	83.7	80.5	82.7	90.4
	Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		77.8		
	Manganese - Total	MG/L	0.3	0.616	T7439-96-5	0.378	0.416	0.389	0.468
	Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.434		
	Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
	Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
	Nickel - Total	MG/L	0.1	0.015	T7440-02-0	0.0047 J			
	Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
	Potassium - Total	MG/L	NA	443.5	T7440-09-7	35.9	26.4	28.5	22.4
	Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		23.9		
	Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
	Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
	Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
	Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
	Sodium - Total	MG/L	20	24505.9	T7440-23-5	149	124	138	121
	Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		117		
	Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.01			
	Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0				
	Vanadium - Total	MG/L	NA	0.015	T7440-62-2	0.0008 J			
	Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
	Zinc - Total	MG/L	2	0.2437	T7440-66-6	0.0026 J	0.004 J		
	Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
	Ammonia	MG/L-N	2	38.5	7664-41-7	18.2	9.2	11.7	6.61
	Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	7.4	4.3	7	3.8
	Bromide	MG/L	2	417.5	BROMIDE	4.2	2.6	4.9	2.7
	Chemical Oxygen Demand	MG/L	NA	862.4	COD	42.7	23.7	41.6	
	Chloride	MG/L	250	46347.8	CL	224	174	264	193
	Color	C.U.	15	93.6	COLOR		3		
	Cyanide - Total	MG/L	0.2	0.0	T57-12-5				
	Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
	Nitrate	MG/L-N	10	0.9	NITRATE				
	Sulfate	MG/L	250	5890.3	SULFATE	321	395	274	469
	Total Alkalinity	MG/L	NA	981.2	TALK	678	502	644	475
	Total Dissolved Solids	MG/L	500	75646.2	TDS	1450	1410	1480	1520
	Total Hardness	MG/L	NA	23726.9	THARD	870	1150	1130	1000
	Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	19	10.8	12.7	
	Total Organic Carbon	MG/L	NA	21.2	TOC	10.6	7.2	11.8	6.5
	Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS		0.0045 J	0.0072	

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-23S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1		0.24	J	
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7		1.3	J	
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0		3.3	J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7		1.7	J	
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7				
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-24S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.7	6.79	6.64	6.94
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	24.9	24	49.2	27.2
Temperature	deg. C	NA	18.6	(TEMP)	10.9	14.8	12.63	9.9
Turbidity	NTU	5	252.7	(TURB)	18.8	283	155	49.4
Aluminum - Total	MG/L	NA	7.538	T7429-90-5		1.31	0.23	0.29
Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0039 J	0.017 J	0.008 J	0.013 J
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3	0.0037 J			
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	3.65	3.8	3.91	3.95
Boron, Dissolved	MG/L	1	0.44	T7440-42-8	3.56	3.88	3.84	3.83
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9		0.0011 J		
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2	502	502	639	1100
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2	487	552	642	1050
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3	0.0024 J	0.018	0.002 J	0.003 J
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4	0.0011 J			
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4	0.0009 J			
Copper - Total	MG/L	0.2	0.0788	T7440-50-8		0.015 J		
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
Iron - Total	MG/L	0.3	16.14	T7439-89-6		2.56	0.93	1.52
Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
Lead - Total	MG/L	0.025	0.0076	T7439-92-1		0.008 J		
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total	MG/L	35	3030.4	T7439-95-4	170	191	280	578
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4	166	239	277	471
Manganese - Total	MG/L	0.3	0.616	T7439-96-5	0.0243 E	0.093	0.035	0.04
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5	0.0236 E	0.028	0.018	0.021
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0		0.012 J		
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7	58.4 E	67.1	92.3	111
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7	56.5 E	75.7	90.9	126
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5	2540	3070	4240	6440
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5	2480	3570	4310	6240
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.0182	0.025 B	0.03	0.07 J
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0	0.0185	0.017		
Vanadium - Total	MG/L	NA	0.015	T7440-62-2		0.002 J		0.001 J
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6		0.061	0.013 J	0.007 J
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
Ammonia	MG/L-N	2	38.5	7664-41-7	4.93	5.44	7.01	10.8
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	6.9	17.7	30.4	42.1
Bromide	MG/L	2	417.5	BROMIDE	23.8	31.1	55.5	115
Chemical Oxygen Demand	MG/L	NA	862.4	COD	44.7	157	369	543
Chloride	MG/L	250	46347.8	CL	2200	2900	5390	10700
Color	C.U.	15	93.6	COLOR	5	2	1	175
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
Nitrate	MG/L-N	10	0.9	NITRATE				
Sulfate	MG/L	250	5890.3	SULFATE	3970	4090	3730	3070
Total Alkalinity	MG/L	NA	981.2	TALK	250	281	285	269
Total Dissolved Solids	MG/L	500	75646.2	TDS	9800	11000	11400	24000
Total Hardness	MG/L	NA	23726.9	THARD	2000	3000	3200	5600
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	4.79	8.4	8.3	10.8
Total Organic Carbon	MG/L	NA	21.2	TOC	0.7 J	1.8	5.6	3.3
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS			0.0041 J	0.003 J

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-24S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022							
						Quarter 1	Quarter 2	Quarter 3	Quarter 4				
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6									
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6									
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5									
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5									
1,1-Dichloroethane	UG/L	5	2.8	75-34-3									
1,1-Dichloroethene	UG/L	5	2.5	75-35-4									
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4									
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8									
1,2-Dibromoethane	UG/L	5	2.5	106-93-4									
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1									
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2									
1,2-Dichloropropane	UG/L	1	2.5	78-87-5									
1,3-Dichlorobenzene	UG/L	3		541-73-1									
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7									
2-Butanone	UG/L	50	5.0	78-93-3									
2-Hexanone	UG/L	50	5.0	591-78-6									
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1									
Acetone	UG/L	50	9.6	67-64-1									
Acrylonitrile	UG/L	5	50.0	107-13-1									
Benzene	UG/L	1	14.4	71-43-2									
Bromochloromethane	UG/L	5	2.5	74-97-5									
Bromodichloromethane	UG/L	50	2.5	75-27-4									
Bromoform	UG/L	50	2.5	75-25-2									
Bromomethane	UG/L	5	8.0	74-83-9									
Carbon Disulfide	UG/L	60	31.0	75-15-0	0.98	J	22	J	8.7	J	5.4	J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5									
Chlorobenzene	UG/L	5	2.8	108-90-7									
Chloroethane	UG/L	5	2.8	75-00-3									
Chloroform	UG/L	7	2.5	67-66-3									
Chloromethane	UG/L	5	5.7	74-87-3									
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2									
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5									
Dibromochloromethane	UG/L	50	2.5	124-48-1									
Dibromomethane	UG/L	5	5.8	74-95-3									
Ethylbenzene	UG/L	5	2.8	100-41-4									
Iodomethane	UG/L	5	2.5	74-88-4									
m,p-Xylenes	UG/L	5	3.7	1330-20-7					1	J			
Methylene chloride	UG/L	5	12.2	75-09-2									
o-Xylenes	UG/L	5	3.7	1330-20-8									
Styrene	UG/L	5	2.5	100-42-5									
Tetrachloroethene	UG/L	5	2.5	127-18-4									
Toluene	UG/L	5	4.0	108-88-3									
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5									
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6									
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6									
Trichloroethene	UG/L	5	2.5	79-01-6									
Trichlorofluoromethane	UG/L	5	2.5	75-69-4									
Vinyl acetate	UG/L	NA	36.6	108-05-4									
Vinyl chloride	UG/L	2	2.5	75-01-4									
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)													

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-25S Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.0	6.25	6.05	6.89
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	>100	>100	>100	91.9
Temperature	deg. C	NA	18.6	(TEMP)	10.3	16.16	13.56	10.1
Turbidity	NTU	5	252.7	(TURB)	55.5	187	256	240
Aluminum - Total	MG/L	NA	7.5376	T7429-90-5	2.14	0.2	3.2	3.8
Aluminum, Dissolved	MG/L	NA	7.5376	T7429-90-5	0.0605 J			
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0279	0.031	0.031	0.028
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3	0.0242	0.03	0.026	0.023
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7	0.0002 J			
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	5.08	4.8	4.24	3.89
Boron, Dissolved	MG/L	1	0.44	T7440-42-8	4.83	4.75	4.21	3.86
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2	3670	3460	3600	3320
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2	3600	3430	3630	3340
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3	0.145	0.011	0.104	0.096
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3	0.0019 J			
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4	0.0046 J	0.001 J	0.002 J	0.002 J
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
Copper - Total	MG/L	0.2	0.0788	T7440-50-8	0.0131 J		0.01 J	0.009 J
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8	0.02			
Iron - Total	MG/L	0.3	16.1	T7439-89-6	2.02	1.35	3.29	2.76
Iron, Dissolved	MG/L	0.3	16.1	T7439-89-6	0.1	0.58		
Lead - Total	MG/L	0.025	0.0076	T7439-92-1				0.004 J
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1	0.0022 J			
Magnesium - Total	MG/L	35	3030.4	T7439-95-4	2690	2440	2290	2230
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4	2600	2370	2310	2250
Manganese - Total	MG/L	0.3	0.616	T7439-96-5	0.226 E	0.318	0.162	0.15
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5	0.188 E	0.314	0.128	0.137
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6		0.0009 J		
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0	0.0661	0.003 J	0.042	0.036 J
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7	326 E	307	330	240
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7	308 E	299	331	240
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4	0.0007 J			
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5	18800	17900	19400	16200
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5	18500	17700	19600	17000
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.159	0.143		
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0	0.149	0.146		
Vanadium - Total	MG/L	NA	0.015	T7440-62-2			0.0008 J	0.004 J
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6	0.0094 J	0.014 J	0.017 J	0.016 J
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
Ammonia	MG/L-N	2	38.5	7664-41-7	26.3	24.5	25.1	25.4
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	-	30.2	66.9	78
Bromide	MG/L	2	417.5	BROMIDE	493	456	593	455
Chemical Oxygen Demand	MG/L	NA	862.4	COD	-	1590	2030	2250
Chloride	MG/L	250	46347.8	CL	45300	40400	46600	51200
Color	C.U.	15	93.6	COLOR	8	2	8	250
Cyanide - Total	MG/L	0.2	0.0	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
Nitrate	MG/L-N	10	0.9	NITRATE		0.007 J	12.8	
Sulfate	MG/L	250	5890.3	SULFATE	2530	2650	2430	2220
Total Alkalinity	MG/L	NA	981.2	TALK	-	139	170	176
Total Dissolved Solids	MG/L	500	75646.2	TDS	72800	72000	75200	72800
Total Hardness	MG/L	NA	23726.9	THARD	20500	28500	19300	18800
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	20.6	25.5	24.9	12.2
Total Organic Carbon	MG/L	NA	21.2	TOC	2.1	5.7	7.4	11
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS			0.063	

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-25S	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0		66	J	54
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				J
Chlorobenzene	UG/L	5	2.8	108-90-7				
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3	2.8	J		
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7				
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-27S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH		S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.8	7.22	6.67	7.05
Specific Conductance		umhos/cm	NA	134435.8	(FSPECN)	8.4	6.75	8.88	4.09
Temperature		deg. C	NA	18.6	(TEMP)	6.3	11	14.47	11.95
Turbidity		NTU	5	252.7	(TURB)	0.0	63	105	92.8
Aluminum - Total		MG/L	NA	7.5376	T7429-90-5		0.1	0.09	J 0.08
Aluminum, Dissolved		MG/L	NA	7.5376	T7429-90-5				
Antimony - Total		MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved		MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total		MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved		MG/L	0.025	0.005	T7440-38-2				
Barium - Total		MG/L	1	0.2145	T7440-39-3	0.0119	J 0.01	J 0.012	J 0.011
Barium, Dissolved		MG/L	1	0.2145	T7440-39-3	0.0121	J		
Beryllium - Total		MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved		MG/L	0.003	0.0015	T7440-41-7				
Boron - Total		MG/L	1	0.44	T7440-42-8	0.599	0.71	0.8	0.78
Boron, Dissolved		MG/L	1	0.44	T7440-42-8	0.616	0.69	0.79	0.8
Cadmium - Total		MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved		MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total		MG/L	NA	4442.1	T7440-70-2	334	328	392	343
Calcium, Dissolved		MG/L	NA	4442.1	T7440-70-2	344	334	391	346
Chromium - Total		MG/L	0.05	0.0159	T7440-47-3				
Chromium, Dissolved		MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total		MG/L	NA	0.0162	T7440-48-4	0.0013	J	0.001	J
Cobalt, Dissolved		MG/L	NA	0.0162	T7440-48-4	0.0009	J		
Copper - Total		MG/L	0.2	0.0788	T7440-50-8				
Copper, Dissolved		MG/L	0.2	0.0788	T7440-50-8				
Iron - Total		MG/L	0.3	16.1	T7439-89-6	0.691	0.9	1.66	1.23
Iron, Dissolved		MG/L	0.3	16.1	T7439-89-6	0.347			
Lead - Total		MG/L	0.025	0.0076	T7439-92-1				
Lead, Dissolved		MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total		MG/L	35	3030.4	T7439-95-4	212	197	230	196
Magnesium, Dissolved		MG/L	35	3030.4	T7439-95-4	217	202	228	202
Manganese - Total		MG/L	0.3	0.616	T7439-96-5	0.0467	0.063	0.097	0.082
Manganese, Dissolved		MG/L	0.3	0.616	T7439-96-5	0.0499	0.078	0.089	0.074
Mercury - Total		MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved		MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total		MG/L	0.1	0.015	T7440-02-0				
Nickel, Dissolved		MG/L	0.1	0.015	T7440-02-0				
Potassium - Total		MG/L	NA	443.5	T7440-09-7	27.9	26.5	29.1	27.4
Potassium, Dissolved		MG/L	NA	443.5	T7440-09-7	28.7	25.1	28.8	28.2
Selenium - Total		MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved		MG/L	0.01	0.004	T7782-49-2				
Silver - Total		MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved		MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total		MG/L	20	24505.9	T7440-23-5	190	280	228	192
Sodium, Dissolved		MG/L	20	24505.9	T7440-23-5	204	205	229	195
Thallium - Total		MG/L	0.0005	0.0167	T7440-28-0				
Thallium, Dissolved		MG/L	0.0005	0.0167	T7440-28-0			0.011	
Vanadium - Total		MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved		MG/L	NA	0.015	T7440-62-2				
Zinc - Total		MG/L	2	0.2437	T7440-66-6		0.007	J 0.004	J 0.005
Zinc, Dissolved		MG/L	2	0.2437	T7440-66-6				
Ammonia		MG/L-N	2	38.5	7664-41-7	0.542	0.429	0.67	0.597
Biochemical Oxygen Demand		MG/L	NA	93.6	BOD				
Bromide		MG/L	2	417.5	BROMIDE	1.8	2.2	1.7	1.8
Chemical Oxygen Demand		MG/L	NA	862.4	COD	4	J	4.9	J
Chloride		MG/L	250	46347.8	CL	195	218	186	158
Color		C.U.	15	93.6	COLOR	3	1	3	100
Cyanide - Total		MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total		MG/L	0.05	0.005	T18540-29-9				
Nitrate		MG/L-N	10	0.9	NITRATE				
Sulfate		MG/L	250	5890.3	SULFATE	1590	1390	1740	1320
Total Alkalinity		MG/L	NA	981.2	TALK	241	308	316	326
Total Dissolved Solids		MG/L	500	75646.2	TDS	2790	2790	3130	2650
Total Hardness		MG/L	NA	23726.9	THARD	1750	1700	2100	1750
Total Kjeldahl Nitrogen		MG/L-N	NA	43.7	TKN	0.74	3.3	J	0.84
Total Organic Carbon		MG/L	NA	21.2	TOC	1.1	2.4	4.9	1.6
Total Recoverable Phenolics		MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-27S	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6					
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6					
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5					
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5					
1,1-Dichloroethane	UG/L	5	2.8	75-34-3					
1,1-Dichloroethene	UG/L	5	2.5	75-35-4					
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4					
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8					
1,2-Dibromoethane	UG/L	5	2.5	106-93-4					
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1					
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2					
1,2-Dichloropropane	UG/L	1	2.5	78-87-5					
1,3-Dichlorobenzene	UG/L	3		541-73-1					
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7					
2-Butanone	UG/L	50	5.0	78-93-3					
2-Hexanone	UG/L	50	5.0	591-78-6					
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1					
Acetone	UG/L	50	9.6	67-64-1					
Acrylonitrile	UG/L	5	50.0	107-13-1					
Benzene	UG/L	1	14.4	71-43-2					
Bromochloromethane	UG/L	5	2.5	74-97-5					
Bromodichloromethane	UG/L	50	2.5	75-27-4					
Bromoform	UG/L	50	2.5	75-25-2					
Bromomethane	UG/L	5	8.0	74-83-9					
Carbon Disulfide	UG/L	60	31.0	75-15-0					
Carbon Tetrachloride	UG/L	5	2.5	56-23-5					
Chlorobenzene	UG/L	5	2.8	108-90-7					
Chloroethane	UG/L	5	2.8	75-00-3					
Chloroform	UG/L	7	2.5	67-66-3					
Chloromethane	UG/L	5	5.7	74-87-3					
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2					
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5					
Dibromochloromethane	UG/L	50	2.5	124-48-1					
Dibromomethane	UG/L	5	5.8	74-95-3					
Ethylbenzene	UG/L	5	2.8	100-41-4					
Iodomethane	UG/L	5	2.5	74-88-4					
m,p-Xylenes	UG/L	5	3.7	1330-20-7		0.25	J		
Methylene chloride	UG/L	5	12.2	75-09-2					
o-Xylenes	UG/L	5	3.7	1330-20-8					
Styrene	UG/L	5	2.5	100-42-5					
Tetrachloroethene	UG/L	5	2.5	127-18-4					
Toluene	UG/L	5	4.0	108-88-3					
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5					
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6					
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6					
Trichloroethene	UG/L	5	2.5	79-01-6					
Trichlorofluoromethane	UG/L	5	2.5	75-69-4					
Vinyl acetate	UG/L	NA	36.6	108-05-4					
Vinyl chloride	UG/L	2	2.5	75-01-4					
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)									

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-12	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
	pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.5	6.5	6.41	7.12
	Specific Conductance	umhos/cm	NA	134435.8	(FSPEC CON)	6.3	37.7	52.7	22.6
	Temperature	deg. C	NA	18.6	(TEMP)	58.5	14.15	13.5	10.5
	Turbidity	NTU	5	252.7	(TURB)	65.3	82.4	77	79.1
	Aluminum - Total	MG/L	NA	7.5376	T7429-90-5	7.39	0.16	0.06 J	0.07 J
	Aluminum, Dissolved	MG/L	NA	7.5376	T7429-90-5				
	Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
	Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
	Arsenic - Total	MG/L	0.025	0.005	T7440-38-2	0.014			
	Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
	Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0305	0.007 J	0.008 J	0.009 J
	Barium, Dissolved	MG/L	1	0.2145	T7440-39-3	0.0117 J			
	Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7	0.0002 J			
	Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
	Boron - Total	MG/L	1	0.44	T7440-42-8	5.59	4.85	4.73	4.62
	Boron, Dissolved	MG/L	1	0.44	T7440-42-8	5.43	4.9	4.74	4.64
	Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9	0.0012 J			
	Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
	Calcium - Total	MG/L	NA	4442.1	T7440-70-2	971	639	618	695
	Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		644	628	661
	Chromium - Total	MG/L	0.05	0.0159	T7440-47-3	0.116			
	Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
	Cobalt - Total	MG/L	NA	0.0162	T7440-48-4	0.003 J			
	Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
	Copper - Total	MG/L	0.2	0.0788	T7440-50-8	0.0395			
	Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
	Iron - Total	MG/L	0.3	16.1	T7439-89-6	9.19	0.16		0.08 J
	Iron, Dissolved	MG/L	0.3	16.1	T7439-89-6				
	Lead - Total	MG/L	0.025	0.0076	T7439-92-1	0.022 J	0.004 J		
	Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
	Magnesium - Total	MG/L	35	3030.4	T7439-95-4	505	276	256	269
	Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		276	257	253
	Manganese - Total	MG/L	0.3	0.616	T7439-96-5	0.221	0.054	0.078	0.113
	Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.05	0.078	0.075
	Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
	Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
	Nickel - Total	MG/L	0.1	0.015	T7440-02-0	0.0543			
	Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
	Potassium - Total	MG/L	NA	443.5	T7440-09-7	144	92	96.3	104
	Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		94.6	96.9	99.4
	Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
	Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
	Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
	Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
	Sodium - Total	MG/L	20	24505.9	T7440-23-5	6770	4770	4580	4910
	Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		4790	4690	4850
	Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.0436	0.024 B		
	Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0		0.021		
	Vanadium - Total	MG/L	NA	0.015	T7440-62-2	0.0136 J			0.0007 BJ
	Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
	Zinc - Total	MG/L	2	0.2437	T7440-66-6	0.0803	0.008 J	0.004 J	
	Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
	Ammonia	MG/L-N	2	38.5	7664-41-7	7.73	7.7	7.57	7.88
	Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	9.2	7.7	35.1	18.4
	Bromide	MG/L	2	417.5	BROMIDE	88	54	51	40.4
	Chemical Oxygen Demand	MG/L	NA	862.4	COD	86.6	457	414	577
	Chloride	MG/L	250	46347.8	CL	8280	6170	5700	5990
	Color	C.U.	15	93.6	COLOR	4	1	15	100
	Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
	Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
	Nitrate	MG/L-N	10	0.9	NITRATE		15		
	Sulfate	MG/L	250	5890.3	SULFATE	4180	4600	4380	4230
	Total Alkalinity	MG/L	NA	981.2	TALK	308	296	301	326
	Total Dissolved Solids	MG/L	500	75646.2	TDS	20400	16600	17000	16800
	Total Hardness	MG/L	NA	23726.9	THARD	2900	3000	3000	2900
	Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	7.7	10	8.4	9.97
	Total Organic Carbon	MG/L	NA	21.2	TOC	3.7		8.2	9.2
	Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-12	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6					
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6					
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5					
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5					
1,1-Dichloroethane	UG/L	5	2.8	75-34-3					
1,1-Dichloroethene	UG/L	5	2.5	75-35-4					
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4					
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8					
1,2-Dibromoethane	UG/L	5	2.5	106-93-4					
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1					
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2					
1,2-Dichloropropane	UG/L	1	2.5	78-87-5					
1,3-Dichlorobenzene	UG/L	3		541-73-1					
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7					
2-Butanone	UG/L	50	5.0	78-93-3			12 J		
2-Hexanone	UG/L	50	5.0	591-78-6					
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1					
Acetone	UG/L	50	9.6	67-64-1					
Acrylonitrile	UG/L	5	50.0	107-13-1					
Benzene	UG/L	1	14.4	71-43-2	0.37 J			1.2 J	2.0 J
Bromochloromethane	UG/L	5	2.5	74-97-5					
Bromodichloromethane	UG/L	50	2.5	75-27-4					
Bromoform	UG/L	50	2.5	75-25-2					
Bromomethane	UG/L	5	8.0	74-83-9					
Carbon Disulfide	UG/L	60	31.0	75-15-0	0.94 J	37 J	6.6 J	2.8 J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5					
Chlorobenzene	UG/L	5	2.8	108-90-7					
Chloroethane	UG/L	5	2.8	75-00-3					
Chloroform	UG/L	7	2.5	67-66-3					
Chloromethane	UG/L	5	5.7	74-87-3					
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2					
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5					
Dibromochloromethane	UG/L	50	2.5	124-48-1					
Dibromomethane	UG/L	5	5.8	74-95-3					
Ethylbenzene	UG/L	5	2.8	100-41-4					
Iodomethane	UG/L	5	2.5	74-88-4					
m,p-Xylenes	UG/L	5	3.7	1330-20-7					
Methylene chloride	UG/L	5	12.2	75-09-2					
o-Xylenes	UG/L	NA	8.5	108-10-2					
Styrene	UG/L	5	2.5	100-42-5					
Tetrachloroethene	UG/L	5	2.5	127-18-4			0.82 J		
Toluene	UG/L	5	4.0	108-88-3					
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5					
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6					
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6					
Trichloroethene	UG/L	5	2.5	79-01-6				31	
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				21	
Vinyl acetate	UG/L	NA	36.6	108-05-4					
Vinyl chloride	UG/L	2	2.5	75-01-4					
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)									

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-13	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	2.92-13.96	(FPHSU)	6.6	4.97	7.3	6.88
Specific Conductance	umhos/cm	NA	20992.6	(FSPECN)	7.0	2.68	4.36	2.04
Temperature	deg. C	NA	17.2	(TEMP)	9.7	14.08	15.25	11.62
Turbidity	NTU	5	313.9	(TURB)	116	97.2	107	83
Aluminum - Total	MG/L	NA	8.433	T7429-90-5	1.34	3.5	0.21	0.44
Aluminum, Dissolved	MG/L	NA	8.433	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0172	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0172	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.4659	T7440-39-3	0.0416	0.016 J	0.004 J	0.008 J
Barium, Dissolved	MG/L	1	0.4659	T7440-39-3	0.0352			
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	2.3	T7440-42-8	0.729	0.38	0.47	0.49
Boron, Dissolved	MG/L	1	2.3	T7440-42-8	0.695	0.37	0.46	0.48
Cadmium - Total	MG/L	0.01	0.0056	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0056	T7440-43-9				
Calcium - Total	MG/L	NA	717.6	T7440-70-2	353	124	112	117
Calcium, Dissolved	MG/L	NA	717.6	T7440-70-2		118	111	115
Chromium - Total	MG/L	0.05	0.0712	T7440-47-3	0.0031 J	0.005 J		
Chromium, Dissolved	MG/L	0.05	0.0712	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4				0.002 J
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.7905	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.7905	T7440-50-8				
Iron - Total	MG/L	0.3	27.4	T7439-89-6	2.48	3.11	0.37	0.51
Iron, Dissolved	MG/L	0.3	27.4	T7439-89-6				
Lead - Total	MG/L	0.025	0.0603	T7439-92-1		0.006 J		
Lead, Dissolved	MG/L	0.025	0.0603	T7439-92-1				
Magnesium - Total	MG/L	35	108.11	T7439-95-4	90.8	39.3	33.2	31.2
Magnesium, Dissolved	MG/L	35	108.11	T7439-95-4		36.1	32.7	30.7
Manganese - Total	MG/L	0.3	0.4782	T7439-96-5	0.0765	0.053	0.02	0.021
Manganese, Dissolved	MG/L	0.3	0.4782	T7439-96-5		0.015	0.015	0.011
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.0492	T7440-02-0				
Nickel, Dissolved	MG/L	0.1	0.0492	T7440-02-0				
Potassium - Total	MG/L	NA	93.75	T7440-09-7	19.5	13.1	12.8	12.9
Potassium, Dissolved	MG/L	NA	93.75	T7440-09-7		11.8	12.5	12.5
Selenium - Total	MG/L	0.01	0.0075	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.0075	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	1903.46	T7440-23-5	601	218	240	251
Sodium, Dissolved	MG/L	20	1903.46	T7440-23-5		221	233	247
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0	0.0168			
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2	0.0011 J	0.005 J		0.001 J
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.3792	T7440-66-6	0.203	0.18	0.008 J	0.018 J
Zinc, Dissolved	MG/L	2	0.3792	T7440-66-6				
Ammonia	MG/L-N	2	2.9	7664-41-7	0.908	0.602	0.76	0.704
Biochemical Oxygen Demand	MG/L	NA	35.8	BOD				
Bromide	MG/L	2	8.0	BROMIDE	9.2		0.6 J	1.1
Chemical Oxygen Demand	MG/L	NA	525.3	COD	9.5	6.6	10.1	8
Chloride	MG/L	250	1386.4	CL	786	257	250	195
Color	C.U.	15	180.8	COLOR	11	5	7	18
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
Nitrate	MG/L-N	10	0.31	NITRATE				
Sulfate	MG/L	250	1950.0	SULFATE	1170	273	334	484
Total Alkalinity	MG/L	NA	554.4	TALK	294	260	258	249
Total Dissolved Solids	MG/L	500	4658.5	TDS	3360	1130	1190	1190
Total Hardness	MG/L	NA	2152.0	THARD	1230	513	470	500
Total Kjeldahl Nitrogen	MG/L-N	NA	4.3	TKN	1.35	1.07		1.16
Total Organic Carbon	MG/L	NA	13.6	TOC	3.1	2.3	2.4	2.2
Total Recoverable Phenolics	MG/L	0.001	0.01	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-13	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	6.5	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1				
Acetone	UG/L	50	5.9	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	8.7	71-43-2				
Bromochloromethane	UG/L	5	3.9	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	3.9	74-83-9				
Carbon Disulfide	UG/L	60	69.6	75-15-0		1.1 J		
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	16.3	67-66-3				
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.9	124-48-1				
Dibromomethane	UG/L	5	3.9	74-95-3				
Ethylbenzene	UG/L	5	2.5	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7				
Methylene chloride	UG/L	5	11.8	75-09-2				
o-Xylenes	UG/L	5	2.5	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	10.7	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-14	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.4	6.63	6.62	7
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	7.0	2.15	7.84	5.39
Temperature	deg. C	NA	18.6	(TEMP)	11.5	12.58	17.61	13.09
Turbidity	NTU	5	252.7	(TURB)	33.7	122	262	406
Aluminum - Total	MG/L	NA	7.538	T7429-90-5		2.27		7.79
Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0106 J	0.014 J		0.048
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3				
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				0.0003 J
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	1.18	0.26	0.53	0.51
Boron, Dissolved	MG/L	1	0.44	T7440-42-8		0.26		
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2		106	281	385
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		107		
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3				0.003 J
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4				0.002 J
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
Copper - Total	MG/L	0.2	0.0788	T7440-50-8				0.004 J
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
Iron - Total	MG/L	0.3	16.14	T7439-89-6	1	1.67	3.65	3.51
Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
Lead - Total	MG/L	0.025	0.0076	T7439-92-1		0.003 J	0.005 J	0.008 J
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total	MG/L	35	3030.4	T7439-95-4		38.5	98.7	126
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		38.3		
Manganese - Total	MG/L	0.3	0.616	T7439-96-5		0.034	0.087	0.08
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.023		
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0				0.005 J
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7		12	24	25.3
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		11.9		
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4	0.0006 J			
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5		129	342	520
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		131		
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0		0.009 BJ		
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				0.002 J
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6		0.101		0.049
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6		0.029		
Ammonia	MG/L-N	2	38.5	7664-41-7	2.38	0.07	0.402	0.337
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	3			
Bromide	MG/L	2	417.5	BROMIDE	18.3	0.4 J	6.5	11.4
Chemical Oxygen Demand	MG/L	NA	862.4	COD	27.4		19.7	20.3
Chloride	MG/L	250	46347.8	CL	1690	226	768	1060
Color	C.U.	15	93.6	COLOR		5		
Cyanide - Total	MG/L	0.2	0.0	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
Nitrate	MG/L-N	10	0.9	NITRATE				
Sulfate	MG/L	250	5890.3	SULFATE	1190	242	475	748
Total Alkalinity	MG/L	NA	981.2	TALK	292	215	236	205
Total Dissolved Solids	MG/L	500	75646.2	TDS	4820	934	2100	3290
Total Hardness	MG/L	NA	23726.9	THARD	1870	575	1250	1650
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	2.39			0.74
Total Organic Carbon	MG/L	NA	21.2	TOC	1.8	1.9	2.3	1.9
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-14	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7				
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7		0.38 J		
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only								
J = Estimated Value								
S.U. = standard units								
ms/cm = millisiemens per centimeter								
deg. C = degrees in Celsius								
N.T.U. = nephelometric turbidity units								
MG/L = milligrams per liter								
UG/L = micrograms per liter								
C.U. = color units								
MG/L-N = nitrogen/nitrate								
NR = Not Included in Laboratory Report								
Bold = Analyte exceeds NCRDD Landfill trigger value								
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance								
Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-15	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	5.79-8.6	(FHSU)	6.7	6.42	6.64	6.91
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	6.7	4.43	6.43	2.95
Temperature	deg. C	NA	18.6	(TEMP)	5.2	11.55	14.54	10.16
Turbidity	NTU	5	252.7	(TURB)	42.6	39.9	97.7	19.6
Aluminum - Total	MG/L	NA	7.538	T7429-90-5		0.13		0.37
Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0153 J	0.013 J		0.01 J
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3				
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	0.472	0.45	0.56	0.47
Boron, Dissolved	MG/L	1	0.44	T7440-42-8		0.46		
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2		387	399	286
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		385		
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3				
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4				
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
Copper - Total	MG/L	0.2	0.0788	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
Iron - Total	MG/L	0.3	16.14	T7439-89-6	0.457	0.22	0.47	0.35
Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
Lead - Total	MG/L	0.025	0.0076	T7439-92-1				
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total	MG/L	35	3030.4	T7439-95-4		224	219	161
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		225		
Manganese - Total	MG/L	0.3	0.616	T7439-96-5		0.017	0.058	0.039
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.011		
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0		0.004 J		
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7		23.7	25.6	21.6
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		24		
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5		63	66.6	65
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		64.1		
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0				
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0		0.013		
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6		0.018 J		0.009 J
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
Ammonia	MG/L-N	2	38.5	7664-41-7			0.044 J	0.094
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD				
Bromide	MG/L	2	417.5	BROMIDE		0.4 J		0.6 J
Chemical Oxygen Demand	MG/L	NA	862.4	COD				
Chloride	MG/L	250	46347.8	CL	96.1	60	83.4	66
Color	C.U.	15	93.6	COLOR		1		
Cyanide - Total	MG/L	0.2	0.005	T57-12-5	0.0051			
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
Nitrate	MG/L-N	10	0.880	NITRATE		0.3 J		
Sulfate	MG/L	250	5890.3	SULFATE	1730	1680	1530	1130
Total Alkalinity	MG/L	NA	981.2	TALK	236	289	260	267
Total Dissolved Solids	MG/L	500	75646.2	TDS	2960	2660	2620	2110
Total Hardness	MG/L	NA	23726.9	THARD	2200	2050	2100	1550
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	0.21			0.25
Total Organic Carbon	MG/L	NA	21.2	TOC				0.7 J
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-15	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7				
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7		0.25 J		
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only								
J = Estimated Value								
S.U. = standard units								
ms/cm = millisiemens per centimeter								
deg. C = degrees in Celsius								
N.T.U. = nephelometric turbidity units								
MG/L = milligrams per liter								
UG/L = micrograms per liter								
C.U. = color units								
MG/L-N = nitrogen/nitrate								
NR = Not Included in Laboratory Report								
Bold = Analyte exceeds NCRDD Landfill trigger value								
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance								
Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-17	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.4	7.08	7	6.93
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	8.1	6.97	11.3	6.2
Temperature	deg. C	NA	18.6	(TEMP)	7.8	14.85	12.57	10.96
Turbidity	NTU	5	252.7	(TURB)	53.2	93.9	142	137
Aluminum - Total	MG/L	NA	7.538	T7429-90-5	0.134	0.86	0.23	0.19
Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				0.007 J
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0193 J	0.016 J	0.014 J	0.021
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3	0.0073 J			
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	1.01	1.11	1.06	1.18
Boron, Dissolved	MG/L	1	0.44	T7440-42-8	0.959	1.11	1.06	1.17
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2	377	386	389	544
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		378	380	540
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3	0.0014 J	0.002 J		
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4				
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
Copper - Total	MG/L	0.2	0.0788	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
Iron - Total	MG/L	0.3	16.14	T7439-89-6	0.189	0.61	0.22	0.43
Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
Lead - Total	MG/L	0.025	0.0076	T7439-92-1				0.003 J
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total	MG/L	35	3030.4	T7439-95-4	168	166	170	249
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		165	170	236
Manganese - Total	MG/L	0.3	0.616	T7439-96-5	0.0353	0.049	0.042	0.086
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.026	0.034	0.043
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0				
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7	32.2	31.5	33.9	40.4
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		32.1	33.6	39.7
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5	459	508	561	607
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		529	550	631
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.0138	0.013 B		
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0		0.015		
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6	0.0084 J	0.01 J	0.005 J	0.014 J
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
Ammonia	MG/L-N	2	38.5	7664-41-7	2.33	2.27	2.31	2.7
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	2.6	2.3	39	10.4
Bromide	MG/L	2	417.5	BROMIDE	4.6	4.1	5.6	8.7
Chemical Oxygen Demand	MG/L	NA	862.4	COD	5.3	5.9	53.4	30.4
Chloride	MG/L	250	46347.8	CL	482	428	576	931
Color	C.U.	15	93.6	COLOR	5	2	1	130
Cyanide - Total	MG/L	0.2	0.0	T57-12-5	0.0081			
Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
Nitrate	MG/L-N	10	0.9	NITRATE		1.3		
Sulfate	MG/L	250	5890.3	SULFATE	1630	1950	1580	1870
Total Alkalinity	MG/L	NA	981.2	TALK	239	292	276	299
Total Dissolved Solids	MG/L	500	75646.2	TDS	3460	3570	3690	4550
Total Hardness	MG/L	NA	23726.9	THARD	1650	2150	1850	2600
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	2.55	5.2	4	3.71
Total Organic Carbon	MG/L	NA	21.2	TOC	2.3	1.4	9.7	3.5
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-17	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7				
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7				
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-18	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	5.79-8.6	(FPHSU)	6.2	6.8	6.79	6.99
Specific Conductance	umhos/cm	NA	134435.8	(FSPECN)	8.1	3.71	4.87	5.2
Temperature	deg. C	NA	18.6	(TEMP)	6.1	12.9	16.87	12.43
Turbidity	NTU	5	252.7	(TURB)	35.9	47	95.7	49.5
Aluminum - Total	MG/L	NA	7.538	T7429-90-5		0.17		0.05 J
Aluminum, Dissolved	MG/L	NA	7.538	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.0061 J	0.003 J		0.006 J
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3				
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	0.865	0.52	0.67	0.74
Boron, Dissolved	MG/L	1	0.44	T7440-42-8		0.57		
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2		129	163	189
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2		143		
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3				
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4				0.001 J
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
Copper - Total	MG/L	0.2	0.0788	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
Iron - Total	MG/L	0.3	16.14	T7439-89-6	0.207	0.42	0.15	0.1
Iron, Dissolved	MG/L	0.3	16.14	T7439-89-6				
Lead - Total	MG/L	0.025	0.0076	T7439-92-1				
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total	MG/L	35	3030.4	T7439-95-4		53.7	75.6	84.1
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4		64.3		
Manganese - Total	MG/L	0.3	0.616	T7439-96-5		0.021	0.02	0.02
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5		0.014		
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0				
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7		15.6	23.6	23.4
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7		18.7		
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5		303	560	514
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5		439		
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0				
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6		0.004 J		
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
Ammonia	MG/L-N	2	38.5	7664-41-7	1.3	1.02	1.56	1.39
Biochemical Oxygen Demand	MG/L	NA	93.6	BOD	2		2.3	
Bromide	MG/L	2	417.5	BROMIDE	6.5	2.6	6.5	7.8
Chemical Oxygen Demand	MG/L	NA	862.4	COD	7.6	6.3	23.1	11.8
Chloride	MG/L	250	46347.8	CL	645	402	872	791
Color	C.U.	15	93.6	COLOR		1		
Cyanide - Total	MG/L	0.2	0.0	T57-12-5	0.0054			
Hexavalent Chromium - Total	MG/L	0.05	0.0	T18540-29-9				
Nitrate	MG/L-N	10	0.9	NITRATE				
Sulfate	MG/L	250	5890.3	SULFATE	760	351	483	623
Total Alkalinity	MG/L	NA	981.2	TALK	323	284	286	283
Total Dissolved Solids	MG/L	500	75646.2	TDS	2590	1480	2330	2520
Total Hardness	MG/L	NA	23726.9	THARD	983	3400	800	1000
Total Kjeldahl Nitrogen	MG/L-N	NA	43.7	TKN	1.49		4.4	1.65
Total Organic Carbon	MG/L	NA	21.2	TOC	2.3	2.3	2.1	2.2
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-18	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.8	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	6.3	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.8	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	3.0	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.5	108-10-1				
Acetone	UG/L	50	9.6	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	14.4	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	8.0	74-83-9				
Carbon Disulfide	UG/L	60	31.0	75-15-0		2	J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.8	108-90-7				
Chloroethane	UG/L	5	2.8	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	5.7	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	5.8	74-95-3				
Ethylbenzene	UG/L	5	2.8	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	3.7	1330-20-7				
Methylene chloride	UG/L	5	12.2	75-09-2				
o-Xylenes	UG/L	5	3.7	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	4.0	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	36.6	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-7D	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	6.44-7.52	(FPHSU)	9.5	6.47	6.66	7.1
Specific Conductance	umhos/cm	NA	138143.1	(FSPECN)	3.1	64.1	87	38.8
Temperature	deg. C	NA	14.2	(TEMP)	10.2	13.6	13.92	9.8
Turbidity	NTU	5	377.1	(TURB)	870.0	0	828	883
Aluminum - Total	MG/L	NA	42.4	T7429-90-5	353	8.9	14.9	7.16
Aluminum, Dissolved	MG/L	NA	42.4	T7429-90-5	0.0385	J		
Antimony - Total	MG/L	0.003	0.0386	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0386	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2	0.0057	J		
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.1297	T7440-39-3	0.115	0.064	0.075	0.062
Barium, Dissolved	MG/L	1	0.1297	T7440-39-3	0.0535	0.049	0.051	0.071
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7	0.0009	J	0.0004	J
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	7.6	T7440-42-8	4.96	4.97	4.6	4.38
Boron, Dissolved	MG/L	1	7.6	T7440-42-8	4.64	4.94	4.51	
Cadmium - Total	MG/L	0.01	0.0092	T7440-43-9	0.0095	0.0058	0.0063	0.0035
Cadmium, Dissolved	MG/L	0.01	0.0092	T7440-43-9				
Calcium - Total	MG/L	NA	7082.2	T7440-70-2	1000	931	970	865
Calcium, Dissolved	MG/L	NA	7082.2	T7440-70-2	876	849	880	69.9
Chromium - Total	MG/L	0.05	0.0496	T7440-47-3	0.0333	0.011	0.016	0.008
Chromium, Dissolved	MG/L	0.05	0.0496	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0608	T7440-48-4	0.0051	J	0.002	J
Cobalt, Dissolved	MG/L	NA	0.0608	T7440-48-4				
Copper - Total	MG/L	0.2	0.0718	T7440-50-8	0.0404	N	0.01	J
Copper, Dissolved	MG/L	0.2	0.0718	T7440-50-8				
Iron - Total	MG/L	0.3	105.9	T7439-89-6	13.7	E	4.92	8.39
Iron, Dissolved	MG/L	0.3	105.9	T7439-89-6	0.147	E		4.05
Lead - Total	MG/L	0.025	0.3375	T7439-92-1	0.13		0.062	0.031
Lead, Dissolved	MG/L	0.025	0.3375	T7439-92-1				J
Magnesium - Total	MG/L	35	4398.0	T7439-95-4	638	570	582	455
Magnesium, Dissolved	MG/L	35	4398.0	T7439-95-4	576	544	540	33.4
Manganese - Total	MG/L	0.3	3.0181	T7439-96-5	0.431	0.295	0.318	0.227
Manganese, Dissolved	MG/L	0.3	3.0181	T7439-96-5	0.0243	0.026	0.021	0.464
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.1114	T7440-02-0			0.015	J
Nickel, Dissolved	MG/L	0.1	0.1114	T7440-02-0				0.009
Potassium - Total	MG/L	NA	624.7	T7440-09-7	148	148	161	145
Potassium, Dissolved	MG/L	NA	624.7	T7440-09-7	125	143	146	
Selenium - Total	MG/L	0.01	0.0025	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.0025	T7782-49-2				
Silver - Total	MG/L	0.05	0.0461	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.0461	T7440-22-4				
Sodium - Total	MG/L	20	41454.7	T7440-23-5	7730	7550	7760	7240
Sodium, Dissolved	MG/L	20	41454.7	T7440-23-5	7330	7510	7680	21.9
Thallium - Total	MG/L	0.0005	0.0574	T7440-28-0	0.051	N	0.046	
Thallium, Dissolved	MG/L	0.0005	0.0574	T7440-28-0	0.0399	N	0.039	
Vanadium - Total	MG/L	NA	0.041	T7440-62-2	0.0319	J	0.008	J
Vanadium, Dissolved	MG/L	NA	0.041	T7440-62-2				B
Zinc - Total	MG/L	2	0.29	T7440-66-6	0.181	0.098	0.102	0.056
Zinc, Dissolved	MG/L	2	0.29	T7440-66-6				
Ammonia	MG/L-N	2	52.7	7664-41-7	11.7	11.1	11.2	11.7
Biochemical Oxygen Demand	MG/L	NA	226.6	BOD	33.3	27	34.6	30.5
Bromide	MG/L	2	1897.2	BROMIDE	162	159	137	143
Chemical Oxygen Demand	MG/L	NA	751.4	COD	592	1770	1810	1580
Chloride	MG/L	250	114233.4	CL	16500	14700	15900	14700
Color	C.U.	15	81.6	COLOR	10	10	25	625
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9	0.003			
Nitrate	MG/L-N	10	0.1	NITRATE				
Sulfate	MG/L	250	3941.6	SULFATE	1180	1050	1140	1100
Total Alkalinity	MG/L	NA	507.8	TALK	276	264	290	277
Total Dissolved Solids	MG/L	500	166500.4	TDS	26600	25200	25900	27100
Total Hardness	MG/L	NA	37332.4	THARD	5600	5000	4800	4600
Total Kjeldahl Nitrogen	MG/L-N	NA	46.7	TKN	16.6	12.1	11.6	12.1
Total Organic Carbon	MG/L	NA	13.1	TOC	2.2	1.5	1.5	1.5
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS			0.0115	0.0048

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-7D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6					
1,1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6					
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5					
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5					
1,1-Dichloroethane	UG/L	5	2.5	75-34-3					
1,1-Dichloroethene	UG/L	5	2.5	75-35-4					
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4					
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8					
1,2-Dibromoethane	UG/L	5	2.5	106-93-4					
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1					
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2					
1,2-Dichloropropane	UG/L	1	2.5	78-87-5					
1,3-Dichlorobenzene	UG/L	3		541-73-1					
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7					
2-Butanone	UG/L	50	5.0	78-93-3					
2-Hexanone	UG/L	50	5.0	591-78-6					
4-Methyl-2-pentanone	UG/L	NA	7.1	108-10-1					
Acetone	UG/L	50	146.4	67-64-1					
Acrylonitrile	UG/L	5	50.0	107-13-1					
Benzene	UG/L	1	68.5	71-43-2	12.0 J	10 J	11 J	11 J	J
Bromochloromethane	UG/L	5	8.6	74-97-5					
Bromodichloromethane	UG/L	50	2.5	75-27-4					
Bromoform	UG/L	50	2.5	75-25-2					
Bromomethane	UG/L	5	3.0	74-83-9					
Carbon Disulfide	UG/L	60	45.9	75-15-0			7.8 J	8.1 J	J
Carbon Tetrachloride	UG/L	5	2.5	56-23-5					
Chlorobenzene	UG/L	5	2.5	108-90-7					
Chloroethane	UG/L	5	2.5	75-00-3					
Chloroform	UG/L	7	2.5	67-66-3	3.7 J				
Chloromethane	UG/L	5	2.5	74-87-3					
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2					
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5					
Dibromochloromethane	UG/L	50	2.5	124-48-1					
Dibromomethane	UG/L	5	40.9	74-95-3					
Ethylbenzene	UG/L	5	6.9	100-41-4					
Iodomethane	UG/L	5	2.5	74-88-4					
m,p-Xylenes	UG/L	5	2.5	1330-20-7					
Methylene chloride	UG/L	5	5.3	75-09-2					
o-Xylenes	UG/L	5	2.5	1330-20-8					
Styrene	UG/L	5	2.5	100-42-5					
Tetrachloroethene	UG/L	5	2.5	127-18-4					
Toluene	UG/L	5	143.0	108-88-3					
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5					
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6					
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6					
Trichloroethene	UG/L	5	2.5	79-01-6					
Trichlorofluoromethane	UG/L	5	2.5	75-69-4					
Vinyl acetate	UG/L	NA	25.0	108-05-4					
Vinyl chloride	UG/L	2	2.5	75-01-4					
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance values and Groundwater Effluent Limitations (June 1998)									

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-22D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
	pH	S.U.	6.5-8.5	6.44-7.52	(FPHSU)	6.9	3.02	4.21	7.04
	Specific Conductance	umhos/cm	NA	138143.1	(FSPECN)	87.7	70	63.25	17.9
	Temperature	deg. C	NA	14.2	(TEMP)	11.8	22.11	16.7	10.08
	Turbidity	NTU	5	377.1	(TURB)	192.2	143	112	64
	Aluminum - Total	MG/L	NA	42.38	T7429-90-5	4.27		2.32	1.06
	Aluminum, Dissolved	MG/L	NA	42.38	T7429-90-5				
	Antimony - Total	MG/L	0.003	0.0386	T7440-36-0				
	Antimony, Dissolved	MG/L	0.003	0.0386	T7440-36-0				
	Arsenic - Total	MG/L	0.025	0.005	T7440-38-2			0.008	J
	Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
	Barium - Total	MG/L	1	0.1297	T7440-39-3	0.0433		0.043	0.037
	Barium, Dissolved	MG/L	1	0.1297	T7440-39-3	0.0368			0.032
	Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7	0.0002	J		
	Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
	Boron - Total	MG/L	1	7.6	T7440-42-8	6.39		5.57	5.29
	Boron, Dissolved	MG/L	1	7.6	T7440-42-8	6.29			5.21
	Cadmium - Total	MG/L	0.01	0.0092	T7440-43-9				
	Cadmium, Dissolved	MG/L	0.01	0.0092	T7440-43-9				
	Calcium - Total	MG/L	NA	7082.2	T7440-70-2	1260		1250	1150
	Calcium, Dissolved	MG/L	NA	7082.2	T7440-70-2	1260			1190
	Chromium - Total	MG/L	0.05	0.0496	T7440-47-3	0.0038	J	0.006	J
	Chromium, Dissolved	MG/L	0.05	0.0496	T7440-47-3				
	Cobalt - Total	MG/L	NA	0.0608	T7440-48-4			0.002	J
	Cobalt, Dissolved	MG/L	NA	0.0608	T7440-48-4	0.0012	J		
	Copper - Total	MG/L	0.2	0.0718	T7440-50-8	0.0095	J	0.007	J
	Copper, Dissolved	MG/L	0.2	0.0718	T7440-50-8				
	Iron - Total	MG/L	0.3	105.86	T7439-89-6	7.65		12.9	9.1
	Iron, Dissolved	MG/L	0.3	105.86	T7439-89-6				2.92
	Lead - Total	MG/L	0.025	0.3375	T7439-92-1	0.206		0.072	0.04
	Lead, Dissolved	MG/L	0.025	0.3375	T7439-92-1	0.003	J		
	Magnesium - Total	MG/L	35	4397.97	T7439-95-4	856		822	759
	Magnesium, Dissolved	MG/L	35	4397.97	T7439-95-4	863			787
	Manganese - Total	MG/L	0.3	3.018	T7439-96-5	0.372		0.346	0.255
	Manganese, Dissolved	MG/L	0.3	3.018	T7439-96-5	0.299			0.231
	Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
	Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
	Nickel - Total	MG/L	0.1	0.1114	T7440-02-0			0.007	J
	Nickel, Dissolved	MG/L	0.1	0.1114	T7440-02-0				0.004
	Potassium - Total	MG/L	NA	624.72	T7440-09-7	172		167	165
	Potassium, Dissolved	MG/L	NA	624.72	T7440-09-7	173			171
	Selenium - Total	MG/L	0.01	0.0025	T7782-49-2				
	Selenium, Dissolved	MG/L	0.01	0.0025	T7782-49-2				
	Silver - Total	MG/L	0.05	0.0461	T7440-22-4				
	Silver, Dissolved	MG/L	0.05	0.0461	T7440-22-4				
	Sodium - Total	MG/L	20	41454.74	T7440-23-5	11800		10900	10100
	Sodium, Dissolved	MG/L	20	41454.74	T7440-23-5	11400			10400
	Thallium - Total	MG/L	0.0005	0.0574	T7440-28-0	0.0631	N	37	B
	Thallium, Dissolved	MG/L	0.0005	0.0574	T7440-28-0	0.0599	N		
	Vanadium - Total	MG/L	NA	0.041	T7440-62-2	0.0019	J	0.002	J
	Vanadium, Dissolved	MG/L	NA	0.041	T7440-62-2				
	Zinc - Total	MG/L	2	0.29	T7440-66-6	0.0276		0.027	0.016
	Zinc, Dissolved	MG/L	2	0.29	T7440-66-6	0.0238			
	Ammonia	MG/L-N	2	52.7	7664-41-7			13.3	
	Biochemical Oxygen Demand	MG/L	NA	226.6	BOD				
	Bromide	MG/L	2	1897.2	BROMIDE			224	
	Chemical Oxygen Demand	MG/L	NA	751.4	COD			1000	
	Chloride	MG/L	250	114233.4	CL			19800	
	Color	C.U.	15	81.6	COLOR				
	Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
	Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
	Nitrate	MG/L-N	10	0.1	NITRATE				
	Sulfate	MG/L	250	3941.6	SULFATE			2060	
	Total Alkalinity	MG/L	NA	507.8	TALK				
	Total Dissolved Solids	MG/L	500	166500.4	TDS			36200	
	Total Hardness	MG/L	NA	37332.4	THARD				
	Total Kjeldahl Nitrogen	MG/L-N	NA	46.7	TKN			13.3	
	Total Organic Carbon	MG/L	NA	13.1	TOC				
	Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-22D	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.1	108-10-1				
Acetone	UG/L	50	146.4	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	68.5	71-43-2	1 J		1 J	1.5 J
Bromochloromethane	UG/L	5	8.6	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	3.0	74-83-9				
Carbon Disulfide	UG/L	60	45.9	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	40.9	74-95-3				
Ethylbenzene	UG/L	5	6.9	100-41-4	0.56 J		0.48 J	0.65 J
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7				0.22 J
Methylene chloride	UG/L	5	5.3	75-09-2				
o-Xylenes	UG/L	5	3.5	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	143.0	108-88-3	0.25 J		0.41 J	0.4 J
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-25D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH		S.U.	6.5-8.5	6.44-7.52	(FPHSU)	6.1	6.32	6.16	6.91
Specific Conductance		umhos/cm	NA	138143.1	(FSPECN)	>100	>100	>100	>100
Temperature		deg. C	NA	14.2	(TEMP)	6.4	19.04	13.68	9.1
Turbidity		NTU	5	377.1	(TURB)	98.5	117	113	70.6
Aluminum - Total		MG/L	NA	7.5376	T7429-90-5	0.825		1.33	0.61
Aluminum, Dissolved		MG/L	NA	7.5376	T7429-90-5				
Antimony - Total		MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved		MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total		MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved		MG/L	0.025	0.005	T7440-38-2				
Barium - Total		MG/L	1	0.2145	T7440-39-3	0.0716	0.1 J	0.084	0.065
Barium, Dissolved		MG/L	1	0.2145	T7440-39-3	0.0677		0.075	0.064
Beryllium - Total		MG/L	0.003	0.0015	T7440-41-7	0.0002 J		0.0002 J	
Beryllium, Dissolved		MG/L	0.003	0.0015	T7440-41-7				
Boron - Total		MG/L	1	0.44	T7440-42-8	4.21	4.3	3.61	3.27
Boron, Dissolved		MG/L	1	0.44	T7440-42-8	4.07	4.3	3.64	3.26
Cadmium - Total		MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved		MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total		MG/L	NA	4442.1	T7440-70-2	5080	5430	5490	5090
Calcium, Dissolved		MG/L	NA	4442.1	T7440-70-2		5530	5560	5130
Chromium - Total		MG/L	0.05	0.0159	T7440-47-3	0.0082 J		0.01	
Chromium, Dissolved		MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total		MG/L	NA	0.0162	T7440-48-4	0.0017 J			0.0009 J
Cobalt, Dissolved		MG/L	NA	0.0162	T7440-48-4				
Copper - Total		MG/L	0.2	0.0788	T7440-50-8	0.0075 J		0.004 J	
Copper, Dissolved		MG/L	0.2	0.0788	T7440-50-8				
Iron - Total		MG/L	0.3	16.1	T7439-89-6	2.53	1.8	2.52	1.1
Iron, Dissolved		MG/L	0.3	16.1	T7439-89-6		1.6	0.86	0.17
Lead - Total		MG/L	0.025	0.0076	T7439-92-1	0.0031 J			
Lead, Dissolved		MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total		MG/L	35	3030.4	T7439-95-4	3580	3510	3320	3230
Magnesium, Dissolved		MG/L	35	3030.4	T7439-95-4		3560	3430	3260
Manganese - Total		MG/L	0.3	0.616	T7439-96-5	0.535	0.82	0.614	0.468
Manganese, Dissolved		MG/L	0.3	0.616	T7439-96-5		0.81	0.599	0.469
Mercury - Total		MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved		MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total		MG/L	0.1	0.015	T7440-02-0			0.008 J	
Nickel, Dissolved		MG/L	0.1	0.015	T7440-02-0				
Potassium - Total		MG/L	NA	443.5	T7440-09-7	427	451	490	350
Potassium, Dissolved		MG/L	NA	443.5	T7440-09-7		451	455	350
Selenium - Total		MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved		MG/L	0.01	0.004	T7782-49-2				
Silver - Total		MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved		MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total		MG/L	20	24505.9	T7440-23-5	28000	28300	27200	30400
Sodium, Dissolved		MG/L	20	24505.9	T7440-23-5		28500	27500	29700
Thallium - Total		MG/L	0.0005	0.0167	T7440-28-0	0.226			
Thallium, Dissolved		MG/L	0.0005	0.0167	T7440-28-0				
Vanadium - Total		MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved		MG/L	NA	0.015	T7440-62-2				
Zinc - Total		MG/L	2	0.2437	T7440-66-6	7.07	0.25	0.229	0.344
Zinc, Dissolved		MG/L	2	0.2437	T7440-66-6				
Ammonia		MG/L-N	2	52.7	7664-41-7	34.9	34.5	35.6	33.7
Biochemical Oxygen Demand		MG/L	NA	226.6	BOD		5.1	147	10.5
Bromide		MG/L	2	1897.2	BROMIDE	735	781	761	674
Chemical Oxygen Demand		MG/L	NA	751.4	COD	3350	3760	3230	375
Chloride		MG/L	250	114233.4	CL	66200	71800	48000	59800
Color		C.U.	15	81.6	COLOR	3	6	20	12
Cyanide - Total		MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total		MG/L	0.05	0.005	T18540-29-9			0.02	
Nitrate		MG/L-N	10	0.1	NITRATE			85.9	
Sulfate		MG/L	250	3941.6	SULFATE	1990	2160	1890	1860
Total Alkalinity		MG/L	NA	507.8	TALK	104	99.3	96.2	97.7
Total Dissolved Solids		MG/L	500	166500.4	TDS	107000	107000	107000	105000
Total Hardness		MG/L	NA	37332.4	THARD	30500	1550	29200	29000
Total Kjeldahl Nitrogen		MG/L-N	NA	46.7	TKN	33.4	33.1	32.5	15.4
Total Organic Carbon		MG/L	NA	13.1	TOC	4.1	11.4	46.1	6.2
Total Recoverable Phenolics		MG/L	0.001	0.02	TPHENOLS			0.029 J	

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-25D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022							
						Quarter 1	Quarter 2	Quarter 3	Quarter 4				
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6									
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6									
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5									
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5									
1,1-Dichloroethane	UG/L	5	2.5	75-34-3									
1,1-Dichloroethene	UG/L	5	2.5	75-35-4									
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4									
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8									
1,2-Dibromoethane	UG/L	5	2.5	106-93-4									
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1									
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2									
1,2-Dichloropropane	UG/L	1	2.5	78-87-5									
1,3-Dichlorobenzene	UG/L	3		541-73-1									
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7									
2-Butanone	UG/L	50	5.0	78-93-3			35	J	33	J	31	J	
2-Hexanone	UG/L	50	5.0	591-78-6	1.8	J			1.4	J			
4-Methyl-2-pentanone	UG/L	NA	7.1	108-10-1									
Acetone	UG/L	50	146.4	67-64-1	43				57		55		
Acrylonitrile	UG/L	5	50.0	107-13-1									
Benzene	UG/L	1	68.5	71-43-2	58		49	J	63		84		
Bromochloromethane	UG/L	5	8.6	74-97-5									
Bromodichloromethane	UG/L	50	2.5	75-27-4									
Bromoform	UG/L	50	2.5	75-25-2									
Bromomethane	UG/L	5	3.0	74-83-9									
Carbon Disulfide	UG/L	60	45.9	75-15-0	5.7	J	48	J	39	J	31	J	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5									
Chlorobenzene	UG/L	5	2.5	108-90-7									
Chloroethane	UG/L	5	2.5	75-00-3									
Chloroform	UG/L	7	2.5	67-66-3									
Chloromethane	UG/L	5	2.5	74-87-3									
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2									
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5									
Dibromochloromethane	UG/L	50	2.5	124-48-1									
Dibromomethane	UG/L	5	40.9	74-95-3									
Ethylbenzene	UG/L	5	6.9	100-41-4	3.1	J			3.8	J	6.1	J	
Iodomethane	UG/L	5	2.5	74-88-4									
m,p-Xylenes	UG/L	5	2.5	1330-20-7	16		9.8	J	19	J	33		
Methylene chloride	UG/L	5	5.3	75-09-2									
o-Xylenes	UG/L	5	2.5	1330-20-8	6.6				8	J	13	J	
Styrene	UG/L	5	2.5	100-42-5									
Tetrachloroethene	UG/L	5	2.5	127-18-4									
Toluene	UG/L	5	143.0	108-88-3	15		19	J	15	J	22	J	
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5									
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6									
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6									
Trichloroethene	UG/L	5	2.5	79-01-6									
Trichlorofluoromethane	UG/L	5	2.5	75-69-4									
Vinyl acetate	UG/L	NA	25.0	108-05-4									
Vinyl chloride	UG/L	2	2.5	75-01-4									

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-25D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH		S.U.	6.5-8.5	6.44-7.52	(FPHSU)	6.1	6.32	6.16	6.91
Specific Conductance		umhos/cm	NA	138143.1	(FSPECN)	>100	>100	>100	>100
Temperature		deg. C	NA	14.2	(TEMP)	6.4	19.04	13.68	9.1
Turbidity		NTU	5	377.1	(TURB)	98.5	117	113	70.6
Aluminum - Total		MG/L	NA	7.5376	T7429-90-5	0.825		1.33	1.41
Aluminum, Dissolved		MG/L	NA	7.5376	T7429-90-5				
Antimony - Total		MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved		MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total		MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved		MG/L	0.025	0.005	T7440-38-2				
Barium - Total		MG/L	1	0.2145	T7440-39-3	0.0716	0.1 J	0.084	0.068
Barium, Dissolved		MG/L	1	0.2145	T7440-39-3	0.0677		0.075	0.065
Beryllium - Total		MG/L	0.003	0.0015	T7440-41-7	0.0002 J		0.0002 J	
Beryllium, Dissolved		MG/L	0.003	0.0015	T7440-41-7				
Boron - Total		MG/L	1	0.44	T7440-42-8	4.21	4.3	3.61	3.31
Boron, Dissolved		MG/L	1	0.44	T7440-42-8	4.07	4.3	3.64	3.35
Cadmium - Total		MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved		MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total		MG/L	NA	4442.1	T7440-70-2	5080	5430	5490	5160
Calcium, Dissolved		MG/L	NA	4442.1	T7440-70-2		5530	5560	5110
Chromium - Total		MG/L	0.05	0.0159	T7440-47-3	0.0082 J		0.01	0.003 J
Chromium, Dissolved		MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total		MG/L	NA	0.0162	T7440-48-4	0.0017 J			0.002 J
Cobalt, Dissolved		MG/L	NA	0.0162	T7440-48-4				
Copper - Total		MG/L	0.2	0.0788	T7440-50-8	0.0075 J		0.004 J	
Copper, Dissolved		MG/L	0.2	0.0788	T7440-50-8				
Iron - Total		MG/L	0.3	16.1	T7439-89-6	2.53	1.8	2.52	2.48
Iron, Dissolved		MG/L	0.3	16.1	T7439-89-6		1.6	0.86	0.19
Lead - Total		MG/L	0.025	0.0076	T7439-92-1	0.0031 J			
Lead, Dissolved		MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total		MG/L	35	3030.4	T7439-95-4	3580	3510	3320	3280
Magnesium, Dissolved		MG/L	35	3030.4	T7439-95-4		3560	3430	3240
Manganese - Total		MG/L	0.3	0.616	T7439-96-5	0.535	0.82	0.614	0.462
Manganese, Dissolved		MG/L	0.3	0.616	T7439-96-5		0.81	0.599	0.463
Mercury - Total		MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved		MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total		MG/L	0.1	0.015	T7440-02-0			0.008 J	
Nickel, Dissolved		MG/L	0.1	0.015	T7440-02-0				
Potassium - Total		MG/L	NA	443.5	T7440-09-7	427	451	490	340
Potassium, Dissolved		MG/L	NA	443.5	T7440-09-7		451	455	340
Selenium - Total		MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved		MG/L	0.01	0.004	T7782-49-2				
Silver - Total		MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved		MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total		MG/L	20	24505.9	T7440-23-5	28000	28300	27200	19600
Sodium, Dissolved		MG/L	20	24505.9	T7440-23-5		28500	27500	20000
Thallium - Total		MG/L	0.0005	0.0167	T7440-28-0	0.226			
Thallium, Dissolved		MG/L	0.0005	0.0167	T7440-28-0				
Vanadium - Total		MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved		MG/L	NA	0.015	T7440-62-2				
Zinc - Total		MG/L	2	0.2437	T7440-66-6	7.07	0.25	0.229	0.707
Zinc, Dissolved		MG/L	2	0.2437	T7440-66-6				0.02
Ammonia		MG/L-N	2	52.7	7664-41-7	34.9	34.5	35.6	33.5
Biochemical Oxygen Demand		MG/L	NA	226.6	BOD		5.1	147	10.1
Bromide		MG/L	2	1897.2	BROMIDE	735	781	761	806
Chemical Oxygen Demand		MG/L	NA	751.4	COD	3350	3760	3230	3990
Chloride		MG/L	250	114233.4	CL	66200	71800	48000	62700
Color		C.U.	15	81.6	COLOR	3	6	20	130
Cyanide - Total		MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total		MG/L	0.05	0.005	T18540-29-9			0.02	
Nitrate		MG/L-N	10	0.1	NITRATE			85.9	
Sulfate		MG/L	250	3941.6	SULFATE	1990	2160	1890	2250
Total Alkalinity		MG/L	NA	507.8	TALK	104	99.3	96.2	98.2
Total Dissolved Solids		MG/L	500	166500.4	TDS	107000	107000	107000	109000
Total Hardness		MG/L	NA	37332.4	THARD	30500	1550	29200	29000
Total Kjeldahl Nitrogen		MG/L-N	NA	46.7	TKN	33.4	33.1	32.5	32
Total Organic Carbon		MG/L	NA	13.1	TOC	4.1	11.4	46.1	11.2
Total Recoverable Phenolics		MG/L	0.001	0.02	TPHENOLS			0.029 J	

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GZ-25D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6					
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6					
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5					
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5					
1,1-Dichloroethane	UG/L	5	2.5	75-34-3					
1,1-Dichloroethene	UG/L	5	2.5	75-35-4					
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4					
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8					
1,2-Dibromoethane	UG/L	5	2.5	106-93-4					
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1					
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2					
1,2-Dichloropropane	UG/L	1	2.5	78-87-5					
1,3-Dichlorobenzene	UG/L	3		541-73-1					
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7					
2-Butanone	UG/L	50	5.0	78-93-3			35 J	33 J	30
2-Hexanone	UG/L	50	5.0	591-78-6	1.8 J			1.4 J	1.2 J
4-Methyl-2-pentanone	UG/L	NA	7.1	108-10-1					
Acetone	UG/L	50	146.4	67-64-1	43			57	59
Acrylonitrile	UG/L	5	50.0	107-13-1					
Benzene	UG/L	1	68.5	71-43-2	58	49 J	63	78	
Bromochloromethane	UG/L	5	8.6	74-97-5					
Bromodichloromethane	UG/L	50	2.5	75-27-4					
Bromoform	UG/L	50	2.5	75-25-2					
Bromomethane	UG/L	5	3.0	74-83-9					
Carbon Disulfide	UG/L	60	45.9	75-15-0	5.7 J	48 J	39 J	29	
Carbon Tetrachloride	UG/L	5	2.5	56-23-5					
Chlorobenzene	UG/L	5	2.5	108-90-7					
Chloroethane	UG/L	5	2.5	75-00-3					
Chloroform	UG/L	7	2.5	67-66-3					
Chloromethane	UG/L	5	2.5	74-87-3					
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2					
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5					
Dibromochloromethane	UG/L	50	2.5	124-48-1					
Dibromomethane	UG/L	5	40.9	74-95-3					
Ethylbenzene	UG/L	5	6.9	100-41-4	3.1 J		3.8 J	5.3 J	
Iodomethane	UG/L	5	2.5	74-88-4					
m,p-Xylenes	UG/L	5	2.5	1330-20-7	16	9.8 J	19 J	30	
Methylene chloride	UG/L	5	5.3	75-09-2					
o-Xylenes	UG/L	5	2.5	1330-20-8	6.6		8 J	12 J	
Styrene	UG/L	5	2.5	100-42-5					
Tetrachloroethene	UG/L	5	2.5	127-18-4					
Toluene	UG/L	5	143.0	108-88-3	15	19 J	15 J	19	
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5					
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6					
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6					
Trichloroethene	UG/L	5	2.5	79-01-6					
Trichlorofluoromethane	UG/L	5	2.5	75-69-4					
Vinyl acetate	UG/L	NA	25.0	108-05-4					
Vinyl chloride	UG/L	2	2.5	75-01-4					

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-27DD	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	6.44-7.52	(FPHSU)	3.8	5.92	5.93	7.08
Specific Conductance	umhos/cm	NA	138143.1	(FSPECN)	>100	>100	>100	>100
Temperature	deg. C	NA	14.2	(TEMP)	5.7	12.13	14.51	10.79
Turbidity	NTU	5	377.1	(TURB)	34.1	77	166	75.5
Aluminum - Total	MG/L	NA	7.5376	T7429-90-5	1	0.3 J	1.99	0.83
Aluminum, Dissolved	MG/L	NA	7.5376	T7429-90-5	1			
Antimony - Total	MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				0.009 J
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.2145	T7440-39-3	0.123 J	0.14 J	0.117	0.115
Barium, Dissolved	MG/L	1	0.2145	T7440-39-3	0.121 J		0.114	0.109
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7			0.0003 J	0.0002 J
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	4.34	4.4	3.71	3.59
Boron, Dissolved	MG/L	1	0.44	T7440-42-8	4.26	4.4	3.69	3.64
Cadmium - Total	MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total	MG/L	NA	4442.1	T7440-70-2	6390	6500	6680	6900
Calcium, Dissolved	MG/L	NA	4442.1	T7440-70-2	6330	6480	6770	6810
Chromium - Total	MG/L	0.05	0.0159	T7440-47-3			0.006 J	0.004 J
Chromium, Dissolved	MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total	MG/L	NA	0.0162	T7440-48-4			0.002 J	
Cobalt, Dissolved	MG/L	NA	0.0162	T7440-48-4				
Copper - Total	MG/L	0.2	0.0788	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.0788	T7440-50-8				
Iron - Total	MG/L	0.3	16.1	T7439-89-6			1.03	0.4
Iron, Dissolved	MG/L	0.3	16.1	T7439-89-6				
Lead - Total	MG/L	0.025	0.0076	T7439-92-1			0.006 J	0.004 J
Lead, Dissolved	MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total	MG/L	35	3030.4	T7439-95-4	4120	4110	3960	3870
Magnesium, Dissolved	MG/L	35	3030.4	T7439-95-4	4050	4150	4030	3950
Manganese - Total	MG/L	0.3	0.616	T7439-96-5	1.04	1.05	0.908	0.735
Manganese, Dissolved	MG/L	0.3	0.616	T7439-96-5	1.03	1.02	0.849	0.722
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0			0.004 J	0.004 J
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	443.5	T7440-09-7	497	513	554	496
Potassium, Dissolved	MG/L	NA	443.5	T7440-09-7	490	519	560	509
Selenium - Total	MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.004	T7782-49-2				
Silver - Total	MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total	MG/L	20	24505.9	T7440-23-5	32500	34100	34000	32400
Sodium, Dissolved	MG/L	20	24505.9	T7440-23-5	33700	33500	32700	32000
Thallium - Total	MG/L	0.0005	0.0167	T7440-28-0	0.34	0.27	0.15	0.139
Thallium, Dissolved	MG/L	0.0005	0.0167	T7440-28-0	0.296	0.25	0.16	0.131
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.2437	T7440-66-6			0.011	0.012 J
Zinc, Dissolved	MG/L	2	0.2437	T7440-66-6				
Ammonia	MG/L-N	2	52.7	7664-41-7	41.1	38.7	38.9	37.1
Biochemical Oxygen Demand	MG/L	NA	226.6	BOD	23.7	16.1	25.9	22.7
Bromide	MG/L	2	1897.2	BROMIDE	870	976	918	801
Chemical Oxygen Demand	MG/L	NA	751.4	COD	4780	5140	3420	5310
Chloride	MG/L	250	114233.4	CL	76000	85900	70700	72100
Color	C.U.	15	81.6	COLOR	4	1	5	150
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9				
Nitrate	MG/L-N	10	0.1	NITRATE			110	
Sulfate	MG/L	250	3941.6	SULFATE	1640	1890	1840	1540
Total Alkalinity	MG/L	NA	507.8	TALK	101	92.6	92.5	93
Total Dissolved Solids	MG/L	500	166500.4	TDS	125000	125000	126000	132000
Total Hardness	MG/L	NA	37332.4	THARD	35000	34500	34800	34400
Total Kjeldahl Nitrogen	MG/L-N	NA	46.7	TKN	39	38.6	34.9	9.59
Total Organic Carbon	MG/L	NA	13.1	TOC		4.2	1.6	3.3
Total Recoverable Phenolics	MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-27DD	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3			5.5 J	8.8 J
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	7.1	108-10-1				
Acetone	UG/L	50	146.4	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	68.5	71-43-2	4.8 J	7.9 J	11 J	14 J
Bromochloromethane	UG/L	5	8.6	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	3.0	74-83-9				
Carbon Disulfide	UG/L	60	45.9	75-15-0	71 J	33 J	12 J	13 J
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3	3.5 J			
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	40.9	74-95-3				
Ethylbenzene	UG/L	5	6.9	100-41-4			1.1 J	1.3 J
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7	3.3 J	3.5 J	5.6 J	6.3 J
Methylene chloride	UG/L	5	5.3	75-09-2				
o-Xylenes	UG/L	5	2.5	1330-20-8	2.1 J		2.2 J	2 J
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	143.0	108-88-3	10 J	15 J	18 J	23 J
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only								
J = Estimated Value								
S.U. = standard units								
ms/cm = millisiemens per centimeter								
deg. C = degrees in Celsius								
N.T.U. = nephelometric turbidity units								
MG/L = milligrams per liter								
UG/L = micrograms per liter								
C.U. = color units								
MG/L-N = nitrogen/nitrate								
NR = Not Included in Laboratory Report								
Bold = Analyte exceeds NCRDD Landfill trigger value								
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance								
Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-28D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
pH		S.U.	6.5-8.5	6.44-7.52	(FPHSU)	6.3	6.4	6.94	7.02
Specific Conductance		umhos/cm	NA	138143.1	(FSPECN)	31.4	28.1	39.8	17.9
Temperature		deg. C	NA	14.2	(TEMP)	6.2	14.72	14.7	9.8
Turbidity		NTU	5	377.1	(TURB)	54.2	82.6	124	71.2
Aluminum - Total		MG/L	NA	7.5376	T7429-90-5		0.07 J		
Aluminum, Dissolved		MG/L	NA	7.5376	T7429-90-5				
Antimony - Total		MG/L	0.003	0.0456	T7440-36-0				
Antimony, Dissolved		MG/L	0.003	0.0456	T7440-36-0				
Arsenic - Total		MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved		MG/L	0.025	0.005	T7440-38-2				
Barium - Total		MG/L	1	0.2145	T7440-39-3	0.0056 J	0.006 J		
Barium, Dissolved		MG/L	1	0.2145	T7440-39-3				
Beryllium - Total		MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved		MG/L	0.003	0.0015	T7440-41-7				
Boron - Total		MG/L	1	0.44	T7440-42-8	5.28	5.29	5.14	4.95
Boron, Dissolved		MG/L	1	0.44	T7440-42-8		5.38		
Cadmium - Total		MG/L	0.01	0.0043	T7440-43-9				
Cadmium, Dissolved		MG/L	0.01	0.0043	T7440-43-9				
Calcium - Total		MG/L	NA	4442.1	T7440-70-2		156	205	174
Calcium, Dissolved		MG/L	NA	4442.1	T7440-70-2		158		
Chromium - Total		MG/L	0.05	0.0159	T7440-47-3	0.002 J			
Chromium, Dissolved		MG/L	0.05	0.0159	T7440-47-3				
Cobalt - Total		MG/L	NA	0.0162	T7440-48-4				
Cobalt, Dissolved		MG/L	NA	0.0162	T7440-48-4				
Copper - Total		MG/L	0.2	0.0788	T7440-50-8				
Copper, Dissolved		MG/L	0.2	0.0788	T7440-50-8				
Iron - Total		MG/L	0.3	16.1	T7439-89-6		0.07 J	0.16	0.41
Iron, Dissolved		MG/L	0.3	16.1	T7439-89-6				
Lead - Total		MG/L	0.025	0.0076	T7439-92-1				
Lead, Dissolved		MG/L	0.025	0.0076	T7439-92-1				
Magnesium - Total		MG/L	35	3030.4	T7439-95-4		113	117	103
Magnesium, Dissolved		MG/L	35	3030.4	T7439-95-4		114		
Manganese - Total		MG/L	0.3	0.616	T7439-96-5		0.022	0.027	0.035
Manganese, Dissolved		MG/L	0.3	0.616	T7439-96-5		0.021		
Mercury - Total		MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved		MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total		MG/L	0.1	0.015	T7440-02-0				
Nickel, Dissolved		MG/L	0.1	0.015	T7440-02-0				
Potassium - Total		MG/L	NA	443.5	T7440-09-7		65.7	70.3	67
Potassium, Dissolved		MG/L	NA	443.5	T7440-09-7		66.9		
Selenium - Total		MG/L	0.01	0.004	T7782-49-2				
Selenium, Dissolved		MG/L	0.01	0.004	T7782-49-2				
Silver - Total		MG/L	0.05	0.0545	T7440-22-4				
Silver, Dissolved		MG/L	0.05	0.0545	T7440-22-4				
Sodium - Total		MG/L	20	24505.9	T7440-23-5		3470	3920	3870
Sodium, Dissolved		MG/L	20	24505.9	T7440-23-5		3530		
Thallium - Total		MG/L	0.0005	0.0167	T7440-28-0				
Thallium, Dissolved		MG/L	0.0005	0.0167	T7440-28-0				
Vanadium - Total		MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved		MG/L	NA	0.015	T7440-62-2				
Zinc - Total		MG/L	2	0.2437	T7440-66-6		0.003 J		
Zinc, Dissolved		MG/L	2	0.2437	T7440-66-6				
Ammonia		MG/L-N	2	52.7	7664-41-7	5.52	5.82	5.4	5.61
Biochemical Oxygen Demand		MG/L	NA	226.6	BOD	44.2	39	41.8	39.9
Bromide		MG/L	2	1897.2	BROMIDE	51.1	58.2	48	49.4
Chemical Oxygen Demand		MG/L	NA	751.4	COD	298	429	282	376
Chloride		MG/L	250	114233.4	CL	4940	5000	4880	4930
Color		C.U.	15	81.6	COLOR		30		
Cyanide - Total		MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total		MG/L	0.05	0.005	T18540-29-9		0.026	0.005 J	0.01
Nitrate		MG/L-N	10	0.1	NITRATE				
Sulfate		MG/L	250	3941.6	SULFATE	1440	1520	1530	1390
Total Alkalinity		MG/L	NA	507.8	TALK	510	499	520	527
Total Dissolved Solids		MG/L	500	166500.4	TDS	10600	12100	8100	10300
Total Hardness		MG/L	NA	37332.4	THARD	900	1000	1030	1050
Total Kjeldahl Nitrogen		MG/L-N	NA	46.7	TKN	5.23	5.43	5.38	5.72
Total Organic Carbon		MG/L	NA	13.1	TOC	0.07 J	0.0009 J	0.8 J	0.9 J
Total Recoverable Phenolics		MG/L	0.001	0.02	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-28D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6					
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6					
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5					
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5					
1,1-Dichloroethane	UG/L	5	2.5	75-34-3					
1,1-Dichloroethene	UG/L	5	2.5	75-35-4					
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4					
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8					
1,2-Dibromoethane	UG/L	5	2.5	106-93-4					
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1					
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2					
1,2-Dichloropropane	UG/L	1	2.5	78-87-5					
1,3-Dichlorobenzene	UG/L	3		541-73-1					
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7					
2-Butanone	UG/L	50	5.0	78-93-3					
2-Hexanone	UG/L	50	5.0	591-78-6					
4-Methyl-2-pentanone	UG/L	NA	7.1	108-10-1					
Acetone	UG/L	50	146.4	67-64-1					
Acrylonitrile	UG/L	5	50.0	107-13-1					
Benzene	UG/L	1	68.5	71-43-2					
Bromochloromethane	UG/L	5	8.6	74-97-5					
Bromodichloromethane	UG/L	50	2.5	75-27-4					
Bromoform	UG/L	50	2.5	75-25-2					
Bromomethane	UG/L	5	3.0	74-83-9					
Carbon Disulfide	UG/L	60	45.9	75-15-0		30	J		
Carbon Tetrachloride	UG/L	5	2.5	56-23-5					
Chlorobenzene	UG/L	5	2.5	108-90-7					
Chloroethane	UG/L	5	2.5	75-00-3					
Chloroform	UG/L	7	2.5	67-66-3					
Chloromethane	UG/L	5	2.5	74-87-3					
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2					
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5					
Dibromochloromethane	UG/L	50	2.5	124-48-1					
Dibromomethane	UG/L	5	40.9	74-95-3					
Ethylbenzene	UG/L	5	6.9	100-41-4					
Iodomethane	UG/L	5	2.5	74-88-4					
m,p-Xylenes	UG/L	5	2.5	1330-20-7					
Methylene chloride	UG/L	5	5.3	75-09-2					
o-Xylenes	UG/L	5	2.5	1330-20-8					
Styrene	UG/L	5	2.5	100-42-5					
Tetrachloroethene	UG/L	5	2.5	127-18-4					
Toluene	UG/L	5	143.0	108-88-3					
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5					
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6					
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6					
Trichloroethene	UG/L	5	2.5	79-01-6					
Trichlorofluoromethane	UG/L	5	2.5	75-69-4					
Vinyl acetate	UG/L	NA	25.0	108-05-4					
Vinyl chloride	UG/L	2	2.5	75-01-4					
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)									

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-29D	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	4.47-12.69	(FPHSU)	7.4	7.01	7.04	6.98
Specific Conductance	umhos/cm	NA	31836.5	(FSPECN)	5.6	4.99	5.04	3.37
Temperature	deg. C	NA	17.8	(TEMP)	8.8	15.94	9.03	9.98
Turbidity	NTU	5	474.7	(TURB)	20.9	560	26.4	32.5
Aluminum - Total	MG/L	NA	0.5016	T7429-90-5		7.61		
Aluminum, Dissolved	MG/L	NA	0.5016	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0075	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0075	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.025	T7440-39-3		0.019	J	
Barium, Dissolved	MG/L	1	0.025	T7440-39-3				
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7		0.0003	J	
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	7.1	T7440-42-8	2.1	2.14	2.1	2.06
Boron, Dissolved	MG/L	1	7.1	T7440-42-8		2.1		
Cadmium - Total	MG/L	0.01	0.0025	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0025	T7440-43-9				
Calcium - Total	MG/L	NA	758.34	T7440-70-2		73.5	37.1	33.8
Calcium, Dissolved	MG/L	NA	758.34	T7440-70-2		31.3		
Chromium - Total	MG/L	0.05	0.0574	T7440-47-3	0.0044	J	0.008	J
Chromium, Dissolved	MG/L	0.05	0.0574	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4		0.002	J	
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.0658	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.0658	T7440-50-8				
Iron - Total	MG/L	0.3	1.11	T7439-89-6	0.167	4.47	3.1	0.58
Iron, Dissolved	MG/L	0.3	1.11	T7439-89-6				
Lead - Total	MG/L	0.025	0.0129	T7439-92-1		0.008	J	
Lead, Dissolved	MG/L	0.025	0.0129	T7439-92-1				
Magnesium - Total	MG/L	35	369.03	T7439-95-4		36.9	23.7	22.9
Magnesium, Dissolved	MG/L	35	369.03	T7439-95-4		23.2		
Manganese - Total	MG/L	0.3	0.1513	T7439-96-5		0.197	0.052	0.032
Manganese, Dissolved	MG/L	0.3	0.1513	T7439-96-5				
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.0655	T7440-02-0				
Nickel, Dissolved	MG/L	0.1	0.0655	T7440-02-0				
Potassium - Total	MG/L	NA	171.768	T7440-09-7		21.9	18.6	18.6
Potassium, Dissolved	MG/L	NA	171.768	T7440-09-7		18.3		
Selenium - Total	MG/L	0.01	0.007	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.007	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	6395.169	T7440-23-5		622	629	613
Sodium, Dissolved	MG/L	20	6395.169	T7440-23-5		615		
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0				
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2		0.009	J	
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.3723	T7440-66-6		0.074		
Zinc, Dissolved	MG/L	2	0.3723	T7440-66-6				
Ammonia	MG/L-N	2	9.7	7664-41-7	1.62	1.62	1.45	1.51
Biochemical Oxygen Demand	MG/L	NA	250.4	BOD	5.3	5.8	26.7	39
Bromide	MG/L	2	128.8	BROMIDE	3.1	2.9	2.5	3.2
Chemical Oxygen Demand	MG/L	NA	239.0	COD	18.4	22.8	51.1	
Chloride	MG/L	250	9330.2	CL	606	595	611	609
Color	C.U.	15	180.8	COLOR		5		
Cyanide - Total	MG/L	0.2	0.005	T57-12-5	0.004			
Hexavalent Chromium - Total	MG/L	0.05	0.005	T18540-29-9	0.003			
Nitrate	MG/L-N	10	0.10	NITRATE				
Sulfate	MG/L	250	3336.4	SULFATE	297	277	296	281
Total Alkalinity	MG/L	NA	652.8	TALK	380	378	380	388
Total Dissolved Solids	MG/L	500	17111.5	TDS	1800	1670	1870	2000
Total Hardness	MG/L	NA	3101.7	THARD	180	410	222	210
Total Kjeldahl Nitrogen	MG/L-N	NA	10.4	TKN	1.61	1.76		2.89
Total Organic Carbon	MG/L	NA	6.4	TOC	1	1.6	9.7	14.3
Total Recoverable Phenolics	MG/L	0.001	0.0	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: MW-29D	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
						Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6					
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6					
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5					
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5					
1,1-Dichloroethane	UG/L	5	2.5	75-34-3					
1,1-Dichloroethene	UG/L	5	2.5	75-35-4					
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4					
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8					
1,2-Dibromoethane	UG/L	5	2.5	106-93-4					
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1					
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2					
1,2-Dichloropropane	UG/L	1	2.5	78-87-5					
1,3-Dichlorobenzene	UG/L	3		541-73-1					
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7					
2-Butanone	UG/L	50	5.0	78-93-3					
2-Hexanone	UG/L	50	5.0	591-78-6					
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1					
Acetone	UG/L	50	17.5	67-64-1					
Acrylonitrile	UG/L	5	50.0	107-13-1					
Benzene	UG/L	1	10.2	71-43-2					
Bromochloromethane	UG/L	5	2.5	74-97-5					
Bromodichloromethane	UG/L	50	2.5	75-27-4					
Bromoform	UG/L	50	2.5	75-25-2					
Bromomethane	UG/L	5	2.5	74-83-9					
Carbon Disulfide	UG/L	60	71.9	75-15-0		3.3	J		
Carbon Tetrachloride	UG/L	5	2.5	56-23-5					
Chlorobenzene	UG/L	5	2.5	108-90-7					
Chloroethane	UG/L	5	2.5	75-00-3					
Chloroform	UG/L	7	2.5	67-66-3					
Chloromethane	UG/L	5	2.5	74-87-3					
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2					
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5					
Dibromochloromethane	UG/L	50	2.5	124-48-1					
Dibromomethane	UG/L	5	2.5	74-95-3					
Ethylbenzene	UG/L	5	2.5	100-41-4					
Iodomethane	UG/L	5	2.5	74-88-4					
m,p-Xylenes	UG/L	5	6.0	1330-20-7					
Methylene chloride	UG/L	5	8.9	75-09-2					
o-Xylenes	UG/L	5	6.0	1330-20-8					
Styrene	UG/L	5	2.5	100-42-5					
Tetrachloroethene	UG/L	5	2.5	127-18-4					
Toluene	UG/L	5	32.6	108-88-3					
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5					
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6					
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6					
Trichloroethene	UG/L	5	2.5	79-01-6					
Trichlorofluoromethane	UG/L	5	2.5	75-69-4					
Vinyl acetate	UG/L	NA	25.0	108-05-4					
Vinyl chloride	UG/L	2	2.5	75-01-4					
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate NR = Not Included in Laboratory Report Bold = Analyte exceeds NCRDD Landfill trigger value Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)									

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: POND	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	6.9-9.36	(FPHSU)	7.1	6.93	7.88	7.03
Specific Conductance	umhos/cm	NA	2820.5	(FSPECN)	2.0	1.73	1.63	5.37
Temperature	deg. C	NA	18.5	(TEMP)	13.0	21.17	19.65	5.2
Turbidity	NTU	5	54.3	(TURB)	42.1	51.5	59.1	17.8
Aluminum - Total	MG/L	NA	1.9109	T7429-90-5	0.0733 J	0.1 J	0.07 J	0.1
Aluminum, Dissolved	MG/L	NA	1.9109	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0075	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0075	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.025	T7440-39-3	0.0277	0.03	0.023	0.026
Barium, Dissolved	MG/L	1	0.025	T7440-39-3	0.0261	0.026	0.022	0.025
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	0.0531 J	0.07 J	0.05 J	0.09 J
Boron, Dissolved	MG/L	1	0.44	T7440-42-8	0.0502 J		0.05 J	
Cadmium - Total	MG/L	0.01	0.0025	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0025	T7440-43-9				
Calcium - Total	MG/L	NA	121.1	T7440-70-2	92.1	92.5	75	90
Calcium, Dissolved	MG/L	NA	121.1	T7440-70-2	88.5	91.9	74.2	90.1
Chromium - Total	MG/L	0.05	0.0093	T7440-47-3				
Chromium, Dissolved	MG/L	0.05	0.0093	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4				
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.0284	T7440-50-8				
Copper, Dissolved	MG/L	0.2	0.0284	T7440-50-8				
Iron - Total	MG/L	0.3	2.986	T7439-89-6	0.102 E	0.28	0.17	0.16
Iron, Dissolved	MG/L	0.3	2.986	T7439-89-6				
Lead - Total	MG/L	0.025	0.0124	T7439-92-1				
Lead, Dissolved	MG/L	0.025	0.0124	T7439-92-1				
Magnesium - Total	MG/L	35	31.4	T7439-95-4	41.7	33.1	20.8	30
Magnesium, Dissolved	MG/L	35	31.4	T7439-95-4	39.9	32.9	20.5	29.9
Manganese - Total	MG/L	0.3	0.1186	T7439-96-5	0.017	0.044	0.014	0.022
Manganese, Dissolved	MG/L	0.3	0.1186	T7439-96-5	0.0041 J			0.011
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0				
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	105.9	T7440-09-7	5.83	5.4	4.2	6.3
Potassium, Dissolved	MG/L	NA	105.9	T7440-09-7	5.58	5.3	4	6.2
Selenium - Total	MG/L	0.01	0.0025	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.0025	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	156.7	T7440-23-5	163	77.9	15.7	29
Sodium, Dissolved	MG/L	20	156.7	T7440-23-5	158	78.1	14.7	28.8
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0				
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.1841	T7440-66-6	0.0039 J	0.003 J	0.003 J	0.015 J
Zinc, Dissolved	MG/L	2	0.1841	T7440-66-6	0.0028 J			
Ammonia	MG/L-N	2	0.25	7664-41-7		0.047 J	0.036 J	0.031 J
Biochemical Oxygen Demand	MG/L	NA	2.0	BOD	4		2.3	6.8
Bromide	MG/L	2	0.1	BROMIDE				
Chemical Oxygen Demand	MG/L	NA	36.8	COD	4.3 J	13.9	8	8.7
Chloride	MG/L	250	266.3	CL	286	126	23.2	43.9
Color	C.U.	15	13.9	COLOR	8	13	12	15
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.046	T18540-29-9				
Nitrate	MG/L-N	10	3.6	NITRATE				0.2 J
Sulfate	MG/L	250	339.9	SULFATE	286	259	160	216
Total Alkalinity	MG/L	NA	190.7	TALK	95.4	108	95.3	111
Total Dissolved Solids	MG/L	500	1053.1	TDS	927	693	405	531
Total Hardness	MG/L	NA	423.4	THARD	400	420	286	367
Total Kjeldahl Nitrogen	MG/L-N	NA	0.3	TKN	0.68	3.1 J	0.52	0.81
Total Organic Carbon	MG/L	NA	5.1	TOC	3.1 B	5.4	3.5	3.2
Total Recoverable Phenolics	MG/L	0.001	0.0	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: POND	Parameter	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022							
						Quarter 1	Quarter 2	Quarter 3	Quarter 4				
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6									
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6									
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5									
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5									
1,1-Dichloroethane	UG/L	5	2.5	75-34-3									
1,1-Dichloroethene	UG/L	5	2.5	75-35-4									
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4									
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8									
1,2-Dibromoethane	UG/L	5	2.5	106-93-4									
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1									
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2									
1,2-Dichloropropane	UG/L	1	2.5	78-87-5									
1,3-Dichlorobenzene	UG/L	3		541-73-1									
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7									
2-Butanone	UG/L	50	5.0	78-93-3									
2-Hexanone	UG/L	50	5.0	591-78-6									
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1	0.22	J	0.61	J				0.21	J
Acetone	UG/L	50	5.0	67-64-1									
Acrylonitrile	UG/L	5	50.0	107-13-1									
Benzene	UG/L	1	2.5	71-43-2									
Bromochloromethane	UG/L	5	2.5	74-97-5									
Bromodichloromethane	UG/L	50	2.5	75-27-4									
Bromoform	UG/L	50	2.5	75-25-2									
Bromomethane	UG/L	5	2.5	74-83-9									
Carbon Disulfide	UG/L	60	3.5	75-15-0									
Carbon Tetrachloride	UG/L	5	2.5	56-23-5									
Chlorobenzene	UG/L	5	2.5	108-90-7									
Chloroethane	UG/L	5	2.5	75-00-3									
Chloroform	UG/L	7	2.5	67-66-3									
Chloromethane	UG/L	5	2.5	74-87-3									
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2									
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5									
Dibromochloromethane	UG/L	50	2.5	124-48-1									
Dibromomethane	UG/L	5	2.5	74-95-3									
Ethylbenzene	UG/L	5	2.5	100-41-4									
Iodomethane	UG/L	5	2.5	74-88-4									
m,p-Xylenes	UG/L	5	2.5	1330-20-7									
Methylene chloride	UG/L	5	3.2	75-09-2									
o-Xylenes	UG/L	5	2.5	1330-20-8									
Styrene	UG/L	5	2.5	100-42-5									
Tetrachloroethene	UG/L	5	2.5	127-18-4									
Toluene	UG/L	5	2.5	108-88-3									
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5									
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6									
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6									
Trichloroethene	UG/L	5	2.5	79-01-6									
Trichlorofluoromethane	UG/L	5	2.5	75-69-4									
Vinyl acetate	UG/L	NA	25.0	108-05-4									
Vinyl chloride	UG/L	2	2.5	75-01-4									
Detectable concentrations only													
J = Estimated Value													
S.U. = standard units													
ms/cm = millisiemens per centimeter													
deg. C = degrees in Celsius													
N.T.U. = nephelometric turbidity units													
MG/L = milligrams per liter													
UG/L = micrograms per liter													
C.U. = color units													
MG/L-N = nitrogen/nitrate													
NR = Not Included in Laboratory Report													
Bold = Analyte exceeds NCRDD Landfill trigger value													
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance													
Values and Groundwater Effluent Limitations (June 1998)													

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GW COLLECTOR	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	6.67-9.73	(FPHSU)	7.2	7.23	7.41	6.94
Specific Conductance	umhos/cm	NA	1777.6	(FSPECN)	1.7	1.76	16	14.1
Temperature	deg. C	NA	23	(TEMP)	12.3	12.95	15.63	9.69
Turbidity	NTU	5	54.7	(TURB)	39.6	38.5	89.1	26.6
Aluminum - Total	MG/L	NA	1.9109	T7429-90-5			5.58	1.61
Aluminum, Dissolved	MG/L	NA	1.9109	T7429-90-5		0.19		
Antimony - Total	MG/L	0.003	0.0075	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0075	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2				
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.025	T7440-39-3	0.0289	0.03	0.063	0.038
Barium, Dissolved	MG/L	1	0.025	T7440-39-3	0.0297	0.029	0.035	0.03
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7			0.0002	J
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8	0.148	J	0.14	J
Boron, Dissolved	MG/L	1	0.44	T7440-42-8	0.148	J		
Cadmium - Total	MG/L	0.01	0.0025	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0025	T7440-43-9				
Calcium - Total	MG/L	NA	121.1	T7440-70-2	176	168	184	153
Calcium, Dissolved	MG/L	NA	121.1	T7440-70-2	179	156	176	147
Chromium - Total	MG/L	0.05	0.0093	T7440-47-3			0.007	J
Chromium, Dissolved	MG/L	0.05	0.0093	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4			0.002	J
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.0284	T7440-50-8			0.005	J
Copper, Dissolved	MG/L	0.2	0.0284	T7440-50-8				
Iron - Total	MG/L	0.3	2.986	T7439-89-6			4.98	1.44
Iron, Dissolved	MG/L	0.3	2.986	T7439-89-6		0.16		
Lead - Total	MG/L	0.025	0.0124	T7439-92-1			0.006	J
Lead, Dissolved	MG/L	0.025	0.0124	T7439-92-1				
Magnesium - Total	MG/L	35	31.4	T7439-95-4	53.4	50.2	53.6	46.1
Magnesium, Dissolved	MG/L	35	31.4	T7439-95-4	54.2	46.4	50.7	44.2
Manganese - Total	MG/L	0.3	0.1186	T7439-96-5		0.061	0.16	
Manganese, Dissolved	MG/L	0.3	0.1186	T7439-96-5		0.06	0.047	0.03
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0	0.0029	J	0.009	J
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	105.9	T7440-09-7	8.08	7.5	10	6.7
Potassium, Dissolved	MG/L	NA	105.9	T7440-09-7	8.16	7.3	7.8	6
Selenium - Total	MG/L	0.01	0.0025	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.0025	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	156.7	T7440-23-5	27.1	30.4	38.2	35
Sodium, Dissolved	MG/L	20	156.7	T7440-23-5	27.2	32.5	38.2	34
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0				
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2	0.0009	J	0.012	J
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.1841	T7440-66-6	0.0027	J	0.004	J
Zinc, Dissolved	MG/L	2	0.1841	T7440-66-6	0.0025	J		
Ammonia	MG/L-N	2	0.25	7664-41-7	0.026	0.102	0.254	
Biochemical Oxygen Demand	MG/L	NA	2.0	BOD	2			
Bromide	MG/L	2	0.1	BROMIDE				
Chemical Oxygen Demand	MG/L	NA	36.8	COD	3.8	4.6	J	5.2
Chloride	MG/L	250	266.3	CL	35.5	34.1	57.6	41.6
Color	C.U.	15	13.9	COLOR	5	1	15	150
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.046	T18540-29-9				
Nitrate	MG/L-N	10	3.6	NITRATE	1.4	1	0.3	J
Sulfate	MG/L	250	339.9	SULFATE	455	374	361	319
Total Alkalinity	MG/L	NA	190.7	TALK	243	257	273	265
Total Dissolved Solids	MG/L	500	1053.1	TDS	954	910	924	832
Total Hardness	MG/L	NA	423.4	THARD	733	717	867	625
Total Kjeldahl Nitrogen	MG/L-N	NA	0.3	TKN	0.4			0.3
Total Organic Carbon	MG/L	NA	5.1	TOC	2.8	2.6	2.8	2.8
Total Recoverable Phenolics	MG/L	0.001	0.0	TPHENOLS				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: GW COLLECTOR	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1				
Acetone	UG/L	50	5.0	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	2.5	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	2.5	74-83-9				
Carbon Disulfide	UG/L	60	3.5	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	2.5	74-95-3				
Ethylbenzene	UG/L	5	2.5	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7				
Methylene chloride	UG/L	5	3.2	75-09-2				
o-Xylenes	UG/L	5	2.5	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	2.5	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only								
J = Estimated Value								
S.U. = standard units								
ms/cm = millisiemens per centimeter								
deg. C = degrees in Celsius								
N.T.U. = nephelometric turbidity units								
MG/L = milligrams per liter								
UG/L = micrograms per liter								
C.U. = color units								
MG/L-N = nitrogen/nitrate								
NR = Not Included in Laboratory Report								
Bold = Analyte exceeds NCRDD Landfill trigger value								
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance								
Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: SUMP	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
pH	S.U.	6.5-8.5	6.33-9.09	(FPHSU)		7.17		7
Specific Conductance	umhos/cm	NA	2610	(FSPECON)		4.29		72
Temperature	deg. C	NA	13.8	(TEMP)		17.84		8.93
Turbidity	NTU	5	5	(TURB)		51.2		55.3
Aluminum - Total	MG/L	NA	1.9109	T7429-90-5		0.178		0.07 J
Aluminum, Dissolved	MG/L	NA	1.9109	T7429-90-5				
Antimony - Total	MG/L	0.003	0.0075	T7440-36-0				
Antimony, Dissolved	MG/L	0.003	0.0075	T7440-36-0				
Arsenic - Total	MG/L	0.025	0.005	T7440-38-2		0.00128		
Arsenic, Dissolved	MG/L	0.025	0.005	T7440-38-2				
Barium - Total	MG/L	1	0.025	T7440-39-3		0.02808		0.023
Barium, Dissolved	MG/L	1	0.025	T7440-39-3		0.024		0.022
Beryllium - Total	MG/L	0.003	0.0015	T7440-41-7				
Beryllium, Dissolved	MG/L	0.003	0.0015	T7440-41-7				
Boron - Total	MG/L	1	0.44	T7440-42-8		0.533		0.15 J
Boron, Dissolved	MG/L	1	0.44	T7440-42-8		0.29		
Cadmium - Total	MG/L	0.01	0.0025	T7440-43-9				
Cadmium, Dissolved	MG/L	0.01	0.0025	T7440-43-9				
Calcium - Total	MG/L	NA	121.1	T7440-70-2		236		129
Calcium, Dissolved	MG/L	NA	121.1	T7440-70-2		151		126
Chromium - Total	MG/L	0.05	0.0093	T7440-47-3		0.00055 J		
Chromium, Dissolved	MG/L	0.05	0.0093	T7440-47-3				
Cobalt - Total	MG/L	NA	0.01	T7440-48-4		0.00173		
Cobalt, Dissolved	MG/L	NA	0.01	T7440-48-4				
Copper - Total	MG/L	0.2	0.0284	T7440-50-8		0.00218		
Copper, Dissolved	MG/L	0.2	0.0284	T7440-50-8				
Iron - Total	MG/L	0.3	2.986	T7439-89-6		0.38		0.08 J
Iron, Dissolved	MG/L	0.3	2.986	T7439-89-6				
Lead - Total	MG/L	0.025	0.0124	T7439-92-1		0.00049 J		
Lead, Dissolved	MG/L	0.025	0.0124	T7439-92-1				
Magnesium - Total	MG/L	35	31.4	T7439-95-4		121		42.9
Magnesium, Dissolved	MG/L	35	31.4	T7439-95-4		69.7		42
Manganese - Total	MG/L	0.3	0.1186	T7439-96-5		0.2107		0.012
Manganese, Dissolved	MG/L	0.3	0.1186	T7439-96-5				
Mercury - Total	MG/L	0.0007	0.0001	T7439-97-6				
Mercury, Dissolved	MG/L	0.0007	0.0001	T7439-97-6				
Nickel - Total	MG/L	0.1	0.015	T7440-02-0		0.00426		
Nickel, Dissolved	MG/L	0.1	0.015	T7440-02-0				
Potassium - Total	MG/L	NA	105.9	T7440-09-7		19.5		7.8
Potassium, Dissolved	MG/L	NA	105.9	T7440-09-7		11.4		7.5
Selenium - Total	MG/L	0.01	0.0025	T7782-49-2				
Selenium, Dissolved	MG/L	0.01	0.0025	T7782-49-2				
Silver - Total	MG/L	0.05	0.005	T7440-22-4				
Silver, Dissolved	MG/L	0.05	0.005	T7440-22-4				
Sodium - Total	MG/L	20	156.7	T7440-23-5		167		55.1
Sodium, Dissolved	MG/L	20	156.7	T7440-23-5		85.2		54.3
Thallium - Total	MG/L	0.0005	0.005	T7440-28-0		0.00017 J		
Thallium, Dissolved	MG/L	0.0005	0.005	T7440-28-0				
Vanadium - Total	MG/L	NA	0.015	T7440-62-2				0.0007 J
Vanadium, Dissolved	MG/L	NA	0.015	T7440-62-2				
Zinc - Total	MG/L	2	0.1841	T7440-66-6		0.00532 J		0.004 J
Zinc, Dissolved	MG/L	2	0.1841	T7440-66-6				
Ammonia	MG/L-N	2	0.25	7664-41-7		0.035 J		
Biochemical Oxygen Demand	MG/L	NA	2.0	BOD		2.2		
Bromide	MG/L	2	0.1	BROMIDE		0.5 J		
Chemical Oxygen Demand	MG/L	NA	36.8	COD		8.2		5.9
Chloride	MG/L	250	266.3	CL		162		60
Color	C.U.	15	13.9	COLOR		2		80
Cyanide - Total	MG/L	0.2	0.005	T57-12-5				
Hexavalent Chromium - Total	MG/L	0.05	0.046	T18540-29-9				
Nitrate	MG/L-N	10	3.6	NITRATE				0.2 J
Sulfate	MG/L	250	339.9	SULFATE		758		323
Total Alkalinity	MG/L	NA	190.7	TALK		239		176
Total Dissolved Solids	MG/L	500	1053.1	TDS		1620		812
Total Hardness	MG/L	NA	423.4	THARD		767		625
Total Kjeldahl Nitrogen	MG/L-N	NA	0.3	TKN				0.35
Total Organic Carbon	MG/L	NA	5.1	TOC		3.1		2.8
Total Recoverable Phenolics	MG/L	0.001	0.0	TPHENOLS				0.0039 J

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: SUMP	Units	Standards	Statistical Trigger Value	Lab Sample ID CAS #	2022			
					Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
1,1,1,2-Tetrachloroethane	UG/L	5	2.5	630-20-6				
1,1,1-Trichloroethane	UG/L	5	2.5	71-55-6				
1,1,2,2-Tetrachloroethane	UG/L	5	2.5	79-34-5				
1,1,2-Trichloroethane	UG/L	1	2.5	79-00-5				
1,1-Dichloroethane	UG/L	5	2.5	75-34-3				
1,1-Dichloroethene	UG/L	5	2.5	75-35-4				
1,2,3-Trichloropropane	UG/L	0.04	2.5	96-18-4				
1,2-Dibromo-3-chloropropane	UG/L	0.04	5.0	96-12-8				
1,2-Dibromoethane	UG/L	5	2.5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	2.5	95-50-1				
1,2-Dichloroethane	UG/L	0.6	2.5	107-06-2				
1,2-Dichloropropane	UG/L	1	2.5	78-87-5				
1,3-Dichlorobenzene	UG/L	3		541-73-1				
1,4-Dichlorobenzene	UG/L	3	2.5	106-46-7				
2-Butanone	UG/L	50	5.0	78-93-3				
2-Hexanone	UG/L	50	5.0	591-78-6				
4-Methyl-2-pentanone	UG/L	NA	5.0	108-10-1				
Acetone	UG/L	50	5.0	67-64-1				
Acrylonitrile	UG/L	5	50.0	107-13-1				
Benzene	UG/L	1	2.5	71-43-2				
Bromochloromethane	UG/L	5	2.5	74-97-5				
Bromodichloromethane	UG/L	50	2.5	75-27-4				
Bromoform	UG/L	50	2.5	75-25-2				
Bromomethane	UG/L	5	2.5	74-83-9				
Carbon Disulfide	UG/L	60	3.5	75-15-0				
Carbon Tetrachloride	UG/L	5	2.5	56-23-5				
Chlorobenzene	UG/L	5	2.5	108-90-7				
Chloroethane	UG/L	5	2.5	75-00-3				
Chloroform	UG/L	7	2.5	67-66-3				
Chloromethane	UG/L	5	2.5	74-87-3				
cis-1,2-Dichloroethene	UG/L	5	2.5	156-59-2				
cis-1,3-Dichloropropene	UG/L	0.4	2.5	10061-01-5				
Dibromochloromethane	UG/L	50	2.5	124-48-1				
Dibromomethane	UG/L	5	2.5	74-95-3				
Ethylbenzene	UG/L	5	2.5	100-41-4				
Iodomethane	UG/L	5	2.5	74-88-4				
m,p-Xylenes	UG/L	5	2.5	1330-20-7				
Methylene chloride	UG/L	5	3.2	75-09-2				
o-Xylenes	UG/L	5	2.5	1330-20-8				
Styrene	UG/L	5	2.5	100-42-5				
Tetrachloroethene	UG/L	5	2.5	127-18-4				
Toluene	UG/L	5	2.5	108-88-3				
trans-1,2-Dichloroethene	UG/L	5	2.5	156-60-5				
trans-1,3-Dichloropropene	UG/L	0.4	2.5	10061-02-6				
trans-1,4-Dichloro-2-butene	UG/L	5	5.0	110-57-6				
Trichloroethene	UG/L	5	2.5	79-01-6				
Trichlorofluoromethane	UG/L	5	2.5	75-69-4				
Vinyl acetate	UG/L	NA	25.0	108-05-4				
Vinyl chloride	UG/L	2	2.5	75-01-4				
Detectable concentrations only								
J = Estimated Value								
S.U. = standard units								
ms/cm = millisiemens per centimeter								
deg. C = degrees in Celsius								
N.T.U. = nephelometric turbidity units								
MG/L = milligrams per liter								
UG/L = micrograms per liter								
C.U. = color units								
MG/L-N = nitrogen/nitrate								
NR = Not Included in Laboratory Report								
Bold = Analyte exceeds NCRDD Landfill trigger value								
Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and								
Guidance Values and Groundwater Effluent Limitations (June 1998)								

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Primary	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter							
Specific Conductance	umhos/cm	NA	(FSPECN)		6.56		2.62
Temperature	deg. C	NA	(TEMP)		18.09		12.17
pH	S.U.	6.5-8.5	(FPHSU)		5.77		6.9
Turbidity	NTU	5	(TURB)		94.8		113
Aluminum - Total	MG/L	NA	T7429-90-5		1.42		0.33
Antimony - Total	MG/L	0.003	T7440-36-0				
Arsenic - Total	MG/L	0.025	T7440-38-2		0.008 J		
Barium - Total	MG/L	1	T7440-39-3		0.048		0.029
Beryllium - Total	MG/L	0.003	T7440-41-7		0.0002 J		
Boron - Total	MG/L	1	T7440-42-8		0.56		0.4
Cadmium - Total	MG/L	0.01	T7440-43-9		0.0005 J		
Calcium - Total	MG/L	NA	T7440-70-2		545		480
Chromium - Total	MG/L	0.05	T7440-47-3		0.005 J		
Cobalt - Total	MG/L	NA	T7440-48-4		0.008 J		0.006 J
Copper - Total	MG/L	0.2	T7440-50-8		0.008 J		0.005 J
Iron - Total	MG/L	0.3	T7439-89-6		72.9		24.7
Lead - Total	MG/L	0.025	T7439-92-1		0.013 J		0.003 J
Magnesium - Total	MG/L	35	T7439-95-4		188		135
Manganese - Total	MG/L	0.3	T7439-96-5		0.894		0.62
Mercury - Total	MG/L	0.0007	T7439-97-6				
Molybdenum-Total	MG/L		T7439-98-7				
Nickel - Total	MG/L	0.1	T7440-02-0		0.037 J		0.025 J
Potassium - Total	MG/L	NA	T7440-09-7		8.6		8.3
Selenium - Total	MG/L	0.01	T7782-49-2				
Silver - Total	MG/L	0.05	T7440-22-4				
Sodium - Total	MG/L	20	T7440-23-5		36.1		21
Thallium - Total	MG/L	0.0005	T7440-28-0		0.014		0.008 J
Tin - Total	MG/L	NA	T7440-31-5				
Vanadium - Total	MG/L	NA	T7440-62-2		0.005 J		0.002 J
Zinc - Total	MG/L	2	T7440-66-6		0.165		0.06
Ammonia	MG/L-N	2	7664-41-7		0.193		0.322
Biochemical Oxygen Demand	MG/L	NA	BOD		3.6		5.4
Color	C.U.	15	COLOR		7		375
Hexavalent Chromium - Total	MG/L	0.05	T18540-29-9				
Nitrate	MG/L-N	10	NITRATE				
Total Alkalinity	MG/L	NA	TALK		599		590
Chloride	MG/L	250	CL		78.7		45.1
Chemical Oxygen Demand	MG/L	NA	COD		25.1		37.4
Sulfide	MG/L	NA	18496-25-8				
Sulfate	MG/L	250	SULFATE		1210		1,090
Cyanide - Total	MG/L	0.2	T57-12-5				
Total Dissolved Solids	MG/L	500	TDS		2540		2,330
Total Kjeldahl Nitrogen	MG/L-N	NA	TKN				1.63
Total Organic Carbon	MG/L	NA	TOC		10		7.4
Total Recoverable Phenolics	MG/L	0.001	TPHENOLS				
Total Hardness	MG/L	NA	THARD		18500		2,000
Bromide	MG/L	2	BROMIDE		2.5		1.3
Acetone	UG/L	50	67-64-1				
Acetonitrile	UG/L	NA	75-05-8				
Acrolein	UG/L	5	107-02-8				
Acrylonitrile	UG/L	5	107-13-1				
3-Chloropropene (Allyl Chlor.)	UG/L	5	107-05-1				
Benzene	UG/L	1	71-43-2				
Bromochloromethane	UG/L	5	74-97-5				
Bromodichloromethane	UG/L	50	75-27-4				
Bromoform	UG/L	5	75-25-2				
Carbon Disulfide	UG/L	60	75-15-0				
Carbon Tetrachloride	UG/L	5	56-23-5				
Chlorobenzene	UG/L	5	108-90-7				
Chloroethane	UG/L	5	75-00-3				
Chloroform	UG/L	7	67-66-3				
2-Chloro-1,3-butadiene	UG/L	5	126-99-8				
Dibromochloromethane	UG/L	50	124-48-1				
4-Bromofluorobenzene	UG/L		460-00-4				
Dibromofluoromethane	UG/L		1868-53-7				
1,2-Dibromo-3-chloropropane	UG/L	0.04	96-12-8				
1,2-Dibromoethane	UG/L	5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	95-50-1				
1,3-Dichlorobenzene	UG/L	3	541-73-1				
1,4-Dichlorobenzene	UG/L	3	106-46-7				
trans-1,4-Dichloro-2-butene	UG/L	5	110-57-6				
Dichlorodifluoromethane	UG/L						
1,1-Dichloroethane	UG/L	5	75-34-3				
1,2-Dichloroethane	UG/L	0.6	107-06-2				
1,1-Dichloroethene	UG/L	5	75-35-4				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Primary	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter							
cis-1,2-Dichloroethene	UG/L	5	156-59-2				
trans-1,2-Dichloroethene	UG/L	5	156-60-5				
1,2-Dichloropropane	UG/L	1	78-87-5				
1,3-Dichloropropane	UG/L						
2,2-Dichloropropane	UG/L	5	594-20-7				
1,1-Dichloropropene	UG/L	5	563-58-6				
cis-1,3-Dichloropropene	UG/L	0.4	10061-01-5				
trans-1,3-Dichloropropene	UG/L	0.4	10061-02-6				
Ethylbenzene	UG/L	5	100-41-4				
Ethyl methacrylate	UG/L	NA	97-63-2				
2-Hexanone	UG/L	50	591-78-6				
Isobutanol	UG/L	NA	78-83-1				
Methacrylonitrile	UG/L	5	126-98-7				
Bromomethane	UG/L	50	74-83-9				
Chloromethane	UG/L	5	74-87-3				
2-Butanone	UG/L	50	78-93-3				
Iodomethane	UG/L	5	74-88-4				
4-Methyl-2-pentanone	UG/L	NA	108-10-1				
Methyl methacrylate	UG/L	50	80-62-6				
Dibromomethane	UG/L	NA	74-95-3				
Methylene chloride	UG/L	5	75-09-2				
Propionitrile	UG/L	NA	107-12-0				
Styrene	UG/L	5	100-42-5				
1,1,1,2-Tetrachloroethane	UG/L	5	630-20-6				
1,1,2,2-Tetrachloroethane	UG/L	5	79-34-5				
Tetrachloroethene	UG/L	5	127-18-4				
Toluene	UG/L	5	108-88-3				
1,1,1-Trichloroethane	UG/L	5	71-55-6				
1,1,2-Trichloroethane	UG/L	1	79-00-5				
Trichloroethene	UG/L	5	79-01-6				
Trichlorofluoromethane	UG/L	5	75-69-4				
1,2,3-Trichloropropane	UG/L	0.04	96-18-4				
Vinyl acetate	UG/L	NA	108-05-4				
Vinyl chloride	UG/L	2	75-01-4				
m,p- Xylenes	UG/L	5	1330-20-7				
o-Xylene	UG/L	5	1330-20-8				
Acenaphthene	UG/L	20	83-32-9				
Acenaphthylene	UG/L	NA	208-96-8				
Acetophenone	UG/L	NA	98-86-2				
2-Acetylaminofluorene	UG/L	NA	53-96-3				
4-Aminobiphenyl	UG/L	5	92-67-1				
Anthracene	UG/L	50	120-12-7				
Benzo(a)anthracene	UG/L	0.002	56-55-3				
Benzo(b)fluoranthene	UG/L	0.002	205-99-2				
Benzo(k)fluoranthene	UG/L	0.002	207-08-9				
Benzo(ghi)perylene	UG/L	NA	191-24-2				
Benzo(a)pyrene	UG/L	ND	50-32-8				
Benzyl alcohol	UG/L	NA	100-51-6				
Bis(2-chloroethoxy) methane	UG/L	5	111-91-1				
Bis(2-chloroethyl) ether	UG/L	1	111-44-4				
Bis(2-ethylhexyl) phthalate	UG/L	5	117-81-7				
4-Bromophenyl phenyl ether	UG/L	NA	101-55-3				
Butyl benzyl phthalate	UG/L	50	85-68-7				
4-Chloroaniline	UG/L	5	106-47-8				
Chlorobenzilate	UG/L	10	510-15-6				
4-Chloro-3-methylphenol	UG/L	5	59-50-7				
2-Chloronaphthalene	UG/L	10	91-58-7				
2-Chlorophenol	UG/L	NA	95-57-8				
4-Chlorophenyl phenyl ether	UG/L	NA	7005-72-3				
Chrysene	UG/L	0.002	218-01-9				
2-Methylphenol	UG/L	NA	95-48-7				
(3+4)-Methylphenol	UG/L	NA	106-44-5				
Diallyl ether	UG/L	NA	2303-16-4				
Dibenzo(a,h)anthracene	UG/L	NA	53-70-3				
Dibenzofuran	UG/L	NA	132-64-9				
Di-n-butyl phthalate	UG/L	50	84-74-2				
3,3'-Dichlorobenzidine	UG/L	5	91-94-1				
2,4-Dichlorophenol	UG/L	5	120-83-2				
2,6-Dichlorophenol	UG/L	NA	87-65-0				
Diethyl phthalate	UG/L	50	84-66-2				
Dimethoate	UG/L	NA	60-51-5				
p-Dimethylaminoazobenzene	UG/L	NA	60-11-7				
7,12-Dimethylbenz(a)anthracene	UG/L	NA	57-97-6				
3,3'-Dimethylbenzidine	UG/L	5	119-93-7				
2,4-Dimethylphenol	UG/L	50	105-67-9				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Primary	Units	Standards	Lab Sample ID CAS #	2022			
Parameter				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Dimethyl phthalate	UG/L	50	131-11-3				
m-Dinitrobenzene	UG/L	5	99-65-0				
4,6-Dinitro-2-methylphenol	UG/L	1	534-52-1				
2,4-Dinitrophenol	UG/L	10	51-28-5				
2,4-Dinitrotoluene	UG/L	5	121-14-2				
2,6-Dinitrotoluene	UG/L	5	606-20-2				
Di-n-octyl phthalate	UG/L	50	117-84-0				
Dinoseb	UG/L	NA	88-85-7A				
Diphenylamine	UG/L	5	122-39-4				
Disulfoton	UG/L	ND	298-04-4				
Ethyl methane sulfonate	UG/L	NA	62-50-0				
Fluoranthene	UG/L	50	206-44-0				
Fluorene	UG/L	50	86-73-7				
Hexachlorobenzene	UG/L	0.04	118-74-1				
Hexachlorobutadiene	UG/L	0.5	87-68-3				
Hexachlorocyclopentadiene	UG/L	5	77-47-4				
Hexachloroethane	UG/L	5	67-72-1				
Hexachloropropene	UG/L	5	1888-71-7				
Indeno(1,2,3-cd)pyrene	UG/L	0.002	193-39-5				
Isodrin	UG/L	5	465-73-6				
Isophorone	UG/L	50	78-59-1				
Isosafrole	UG/L	NA	120-58-1				
Methapyrilene	UG/L	NA	91-80-5				
3-Methylcholanthrene	UG/L	NA	56-49-5				
Methyl methanesulfonate	UG/L	NA	66-27-3				
2-Methylnaphthalene	UG/L	NA	91-57-6				
Methyl parathion	UG/L	1.5	298-00-0				
Naphthalene	UG/L	10	91-20-3				
1-Naphthylamine	UG/L	NA	134-32-7				
2-Naphthylamine	UG/L	NA	91-59-8				
2-Nitroaniline	UG/L	5	88-74-4				
3-Nitroaniline	UG/L	5	99-09-2				
4-Nitroaniline	UG/L	5	100-01-6				
Nitrobenzene	UG/L	0.4	98-95-3				
2-Nitrophenol	UG/L	NA	88-75-5				
4-Nitrophenol	UG/L	5	100-02-7				
N-Nitrosodi-n-butylamine	UG/L	NA	924-16-3				
N-Nitrosodiethylamine	UG/L	NA	55-18-5				
N-Nitrosodimethylamine	UG/L	NA	62-75-9				
N-nitrosodiphenylamine	UG/L	NA	86-30-6				
N-Nitroso-Di-n-propylamine	UG/L	NA	621-64-7				
N-Nitrosomethylethylamine	UG/L	NA	10595-95-6				
N-Nitrosopiperidine	UG/L	NA	100-75-4				
N-Nitrosopyrrolidine	UG/L	NA	930-55-2				
5-Nitro-o-toluidine	UG/L	5	99-55-8				
2,2'-Oxybis(1-Chloropropane)	UG/L	NA	108-60-1				
Parathion	UG/L	1.5	56-38-2				
Pentachlorobenzene	UG/L	5	608-93-5				
Pentachloronitrobenzene	UG/L	ND	82-68-8				
Pentachlorophenol	UG/L	1	87-86-5				
Phenacetin	UG/L	NA	62-44-2				
Phenanthrene	UG/L	50	85-01-8				
Phenol	UG/L	1	108-95-2				
p-Phenylenediamine	UG/L	5	106-50-3				
Phorate	UG/L	ND	298-02-2				
Pronamide	UG/L	ND	23950-58-5				
Pyrene	UG/L	50	129-00-0				
Safrole	UG/L	ND	94-59-7				
1,2,4,5-Tetrachlorobenzene	UG/L	5	95-94-3				
2,3,4,6-Tetrachlorophenol	UG/L	NA	58-90-2				
Thionazin	UG/L	ND	297-97-2				
o-Toluidine	UG/L	5	95-53-4				
1,2,4-Trichlorobenzene	UG/L	5	120-82-1				
2,4,5-Trichlorophenol	UG/L	5	95-95-4				
2,4,6-Trichlorophenol	UG/L	5	88-06-2				
0,0,0-Triethylphosphorothioate	UG/L	NA	126-68-1				
sym-Trinitrobenzene	UG/L	5	99-35-4				
2,4-D	UG/L	50	94-75-7				
2,4,5-T	UG/L	35	93-76-5				
4,4'-DDT	UG/L	0.2	50-29-3				
4,4'-DDE	UG/L	0.2	72-55-9				
4,4'-DDD	UG/L	0.3	72-54-8				
2,4,5-TP (Silvex)	UG/L	0.26	93-72-1				
Aldrin	UG/L	ND	309-00-2				
alpha-BHC	UG/L	0.01	319-84-6				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Primary	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter							
beta-BHC	UG/L	0.04	319-85-7				
gamma-BHC (Lindane)	UG/L	0.05	58-89-9				
delta-BHC	UG/L	0.04	319-86-8				
Chlordane	UG/L	0.1	57-74-9				
Dieldrin	UG/L	ND	60-57-1				
Endosulfan I	UG/L	ND	959-98-8				
Endosulfan II	UG/L	ND	33213-65-9				
Endosulfan Sulfate	UG/L	ND	1031-07-8				
Endrin	UG/L	ND	72-20-8				
Endrin aldehyde	UG/L	5	7421-93-4				
Famphur	UG/L	NA	52-85-7				
Heptachlor	UG/L	0.04	76-44-8				
Heptachlor epoxide	UG/L	0.03	1024-57-3				
Kepone	UG/L	ND	143-50-0				
Methoxychlor	UG/L	35	72-43-5				
Toxaphene	UG/L	0.06	8001-35-2				
Aroclor 1016	UG/L	0.1	12674-11-2				
Aroclor 1221	UG/L	0.1	11104-28-2				
Aroclor 1232	UG/L	0.1	11141-16-5				
Aroclor 1242	UG/L	0.1	53469-21-9				
Aroclor 1248	UG/L	0.1	12672-29-6				
Aroclor 1254	UG/L	0.1	11097-69-1				
Aroclor 1260	UG/L	0.1	11096-82-5				
Aroclor 1262	UG/L	0.1	37324-23-5				
Aroclor 1268	UG/L	0.1	11100-14-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate Bold =Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)							

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Secondary Parameter	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Specific Conductance	umhos/cm	NA	(FSPECN)		5.33		2.78
Temperature	deg. C	NA	(TEMP)		15.11		10.35
pH	S.U.	6.5-8.5	(FPHSU)		6.12		7.01
Turbidity	NTU	5	(TURB)		95		160
Aluminum - Total	MG/L	NA	T7429-90-5		0.2		1.68
Antimony - Total	MG/L	0.003	T7440-36-0				
Arsenic - Total	MG/L	0.025	T7440-38-2				0.043
Barium - Total	MG/L	1	T7440-39-3		0.034		0.047
Beryllium - Total	MG/L	0.003	T7440-41-7				0.0007 J
Boron - Total	MG/L	1	T7440-42-8		0.32		0.33
Cadmium - Total	MG/L	0.01	T7440-43-9				
Calcium - Total	MG/L	NA	T7440-70-2		466		569
Chromium - Total	MG/L	0.05	T7440-47-3		0.004 J		0.005 J
Cobalt - Total	MG/L	NA	T7440-48-4		0.003 J		0.013 J
Copper - Total	MG/L	0.2	T7440-50-8				0.008 J
Iron - Total	MG/L	0.3	T7439-89-6		34.7		165
Lead - Total	MG/L	0.025	T7439-92-1		0.008 J		0.116
Magnesium - Total	MG/L	35	T7439-95-4		172		121
Manganese - Total	MG/L	0.3	T7439-96-5		0.257		0.4
Mercury - Total	MG/L	0.0007	T7439-97-6				
Molybdenum-Total	MG/L		T7439-98-7				0.005 J
Nickel - Total	MG/L	0.1	T7440-02-0		0.018 J		0.066
Potassium - Total	MG/L	NA	T7440-09-7		7.9		7.5
Selenium - Total	MG/L	0.01	T7782-49-2				
Silver - Total	MG/L	0.05	T7440-22-4				
Sodium - Total	MG/L	20	T7440-23-5		49.9		22
Thallium - Total	MG/L	0.0005	T7440-28-0		0.013		
Tin - Total	MG/L	NA	T7440-31-5				
Vanadium - Total	MG/L	NA	T7440-62-2				0.008 J
Zinc - Total	MG/L	2	T7440-66-6		0.103		0.591
Ammonia	MG/L-N	2	7664-41-7		0.047 J		0.078
Biochemical Oxygen Demand	MG/L	NA	BOD				3.3
Color	C.U.	15	COLOR		2		110
Hexavalent Chromium - Total	MG/L	0.05	T18540-29-9				
Nitrate	MG/L-N	10	NITRATE				
Total Alkalinity	MG/L	NA	TALK		565		488
Chloride	MG/L	250	CL		111		27.8
Chemical Oxygen Demand	MG/L	NA	COD		11.4		13.5
Sulfide	MG/L	NA	18496-25-8				
Sulfate	MG/L	250	SULFATE		1150		1,270
Cyanide - Total	MG/L	0.2	T57-12-5				
Total Dissolved Solids	MG/L	500	TDS		2500		2,420
Total Kjeldahl Nitrogen	MG/L-N	NA	TKN				0.93
Total Organic Carbon	MG/L	NA	TOC		3.7		2.5
Total Recoverable Phenolics	MG/L	0.001	TPHENOLS				
Total Hardness	MG/L	NA	THARD		2100		2,100
Bromide	MG/L	2	BROMIDE		3.2		0.6 J
Acetone	UG/L	50	67-64-1				
Acetonitrile	UG/L	NA	75-05-8				
Acrolein	UG/L	5	107-02-8				
Acrylonitrile	UG/L	5	107-13-1				
3-Chloropropene (Allyl Chlor.)	UG/L	5	107-05-1				
Benzene	UG/L	1	71-43-2				
Bromochloromethane	UG/L	5	74-97-5				
Bromodichloromethane	UG/L	50	75-27-4				
Bromoform	UG/L	5	75-25-2				
Carbon Disulfide	UG/L	60	75-15-0				
Carbon Tetrachloride	UG/L	5	56-23-5				
Chlorobenzene	UG/L	5	108-90-7				
Chloroethane	UG/L	5	75-00-3				
Chloroform	UG/L	7	67-66-3				
2-Chloro-1,3-butadiene	UG/L	5	126-99-8				
Dibromochloromethane	UG/L	50	124-48-1				
4-Bromofluorobenzene	UG/L		460-00-4				
Dibromofluoromethane	UG/L		1868-53-7				
1,2-Dibromo-3-chloropropane	UG/L	0.04	96-12-8				
1,2-Dibromoethane	UG/L	5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	95-50-1				
1,3-Dichlorobenzene	UG/L	3	541-73-1				
1,4-Dichlorobenzene	UG/L	3	106-46-7				
trans-1,4-Dichloro-2-butene	UG/L	5	110-57-6				
Dichlorodifluoromethane	UG/L						
1,1-Dichloroethane	UG/L	5	75-34-3				
1,2-Dichloroethane	UG/L	0.6	107-06-2				
1,1-Dichloroethene	UG/L	5	75-35-4				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Secondary	Units	Standards	Lab Sample ID CAS #	2022			
Parameter				Quarter 1	Quarter 2	Quarter 3	Quarter 4
cis-1,2-Dichloroethene	UG/L	5	156-59-2				
trans-1,2-Dichloroethene	UG/L	5	156-60-5				
1,2-Dichloropropane	UG/L	1	78-87-5				
1,3-Dichloropropane	UG/L						
2,2-Dichloropropane	UG/L	5	594-20-7				
1,1-Dichloropropene	UG/L	5	563-58-6				
cis-1,3-Dichloropropene	UG/L	0.4	10061-01-5				
trans-1,3-Dichloropropene	UG/L	0.4	10061-02-6				
Ethylbenzene	UG/L	5	100-41-4				
Ethyl methacrylate	UG/L	NA	97-63-2				
2-Hexanone	UG/L	50	591-78-6				
Isobutanol	UG/L	NA	78-83-1				
Methacrylonitrile	UG/L	5	126-98-7				
Bromomethane	UG/L	50	74-83-9				
Chloromethane	UG/L	5	74-87-3				
2-Butanone	UG/L	50	78-93-3				
Iodomethane	UG/L	5	74-88-4				
4-Methyl-2-pentanone	UG/L	NA	108-10-1				
Methyl methacrylate	UG/L	50	80-62-6				
Dibromomethane	UG/L	NA	74-95-3				
Methylene chloride	UG/L	5	75-09-2				
Propionitrile	UG/L	NA	107-12-0				
Styrene	UG/L	5	100-42-5				
1,1,1,2-Tetrachloroethane	UG/L	5	630-20-6				
1,1,2,2-Tetrachloroethane	UG/L	5	79-34-5				
Tetrachloroethene	UG/L	5	127-18-4				
Toluene	UG/L	5	108-88-3				
1,1,1-Trichloroethane	UG/L	5	71-55-6				
1,1,2-Trichloroethane	UG/L	1	79-00-5				
Trichloroethene	UG/L	5	79-01-6				
Trichlorofluoromethane	UG/L	5	75-69-4				
1,2,3-Trichloropropane	UG/L	0.04	96-18-4				
Vinyl acetate	UG/L	NA	108-05-4				
Vinyl chloride	UG/L	2	75-01-4				
m,p- Xylenes	UG/L	5	1330-20-7				
o-Xylene	UG/L	5	95-47-6				
Acenaphthene	UG/L	20	83-32-9				
Acenaphthylene	UG/L	NA	208-96-8				
Acetophenone	UG/L	NA	98-86-2				
2-Acetylaminofluorene	UG/L	NA	53-96-3				
4-Aminobiphenyl	UG/L	5	92-67-1				
Anthracene	UG/L	50	120-12-7				
Benzo(a)anthracene	UG/L	0.002	56-55-3				
Benzo(b)fluoranthene	UG/L	0.002	205-99-2				
Benzo(k)fluoranthene	UG/L	0.002	207-08-9				
Benzo(ghi)perylene	UG/L	NA	191-24-2				
Benzo(a)pyrene	UG/L	ND	50-32-8				
Benzyl alcohol	UG/L	NA	100-51-6				
Bis(2-chloroethoxy) methane	UG/L	5	111-91-1				
Bis(2-chloroethyl) ether	UG/L	1	111-44-4				
Bis(2-ethylhexyl) phthalate	UG/L	5	117-81-7				
4-Bromophenyl phenyl ether	UG/L	NA	101-55-3				
Butyl benzyl phthalate	UG/L	50	85-68-7				
4-Chloroaniline	UG/L	5	106-47-8				
Chlorobenzilate	UG/L	10	510-15-6				
4-Chloro-3-methylphenol	UG/L	5	59-50-7				
2-Chloronaphthalene	UG/L	10	91-58-7				
2-Chlorophenol	UG/L	NA	95-57-8				
4-Chlorophenyl phenyl ether	UG/L	NA	7005-72-3				
Chrysene	UG/L	0.002	218-01-9				
2-Methylphenol	UG/L	NA	95-48-7				
(3+4)-Methylphenol	UG/L	NA	106-44-5				
Diallyl ether	UG/L	NA	2303-16-4				
Dibenzo(a,h)anthracene	UG/L	NA	53-70-3				
Dibenzofuran	UG/L	NA	132-64-9				
Di-n-butyl phthalate	UG/L	50	84-74-2				
3,3'-Dichlorobenzidine	UG/L	5	91-94-1				
2,4-Dichlorophenol	UG/L	5	120-83-2				
2,6-Dichlorophenol	UG/L	NA	87-65-0				
Diethyl phthalate	UG/L	50	84-66-2				
Dimethoate	UG/L	NA	60-51-5				
p-Dimethylaminoazobenzene	UG/L	NA	60-11-7				
7,12-Dimethylbenz(a)anthracene	UG/L	NA	57-97-6				
3,3'-Dimethylbenzidine	UG/L	5	119-93-7				
2,4-Dimethylphenol	UG/L	50	105-67-9				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Secondary	Units	Standards	Lab Sample ID CAS #	2022			
Parameter				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Dimethyl phthalate	UG/L	50	131-11-3				
m-Dinitrobenzene	UG/L	5	99-65-0				
4,6-Dinitro-2-methylphenol	UG/L	1	534-52-1				
2,4-Dinitrophenol	UG/L	10	51-28-5				
2,4-Dinitrotoluene	UG/L	5	121-14-2				
2,6-Dinitrotoluene	UG/L	5	606-20-2				
Di-n-octyl phthalate	UG/L	50	117-84-0				
Dinoseb	UG/L	NA	88-85-7A				
Diphenylamine	UG/L	5	122-39-4				
Disulfoton	UG/L	ND	298-04-4				
Ethyl methane sulfonate	UG/L	NA	62-50-0				
Fluoranthene	UG/L	50	206-44-0				
Fluorene	UG/L	50	86-73-7				
Hexachlorobenzene	UG/L	0.04	118-74-1				
Hexachlorobutadiene	UG/L	0.5	87-68-3				
Hexachlorocyclopentadiene	UG/L	5	77-47-4				
Hexachloroethane	UG/L	5	67-72-1				
Hexachloropropene	UG/L	5	1888-71-7				
Indeno(1,2,3-cd)pyrene	UG/L	0.002	193-39-5				
Isodrin	UG/L	5	465-73-6				
Isophorone	UG/L	50	78-59-1				
Isosafrole	UG/L	NA	120-58-1				
Methapyrilene	UG/L	NA	91-80-5				
3-Methylcholanthrene	UG/L	NA	56-49-5				
Methyl methanesulfonate	UG/L	NA	66-27-3				
2-Methylnaphthalene	UG/L	NA	91-57-6				
Methyl parathion	UG/L	1.5	298-00-0				
Naphthalene	UG/L	10	91-20-3				
1-Naphthylamine	UG/L	NA	134-32-7				
2-Naphthylamine	UG/L	NA	91-59-8				
2-Nitroaniline	UG/L	5	88-74-4				
3-Nitroaniline	UG/L	5	99-09-2				
4-Nitroaniline	UG/L	5	100-01-6				
Nitrobenzene	UG/L	0.4	98-95-3				
2-Nitrophenol	UG/L	NA	88-75-5				
4-Nitrophenol	UG/L	5	100-02-7				
N-Nitrosodi-n-butylamine	UG/L	NA	924-16-3				
N-Nitrosodiethylamine	UG/L	NA	55-18-5				
N-Nitrosodimethylamine	UG/L	NA	62-75-9				
N-nitrosodiphenylamine	UG/L	NA	86-30-6				
N-Nitroso-Di-n-propylamine	UG/L	NA	621-64-7				
N-Nitrosomethylethylamine	UG/L	NA	10595-95-6				
N-Nitrosopiperidine	UG/L	NA	100-75-4				
N-Nitrosopyrrolidine	UG/L	NA	930-55-2				
5-Nitro-o-toluidine	UG/L	5	99-55-8				
2,2'-Oxybis(1-Chloropropane)	UG/L	NA	108-60-1				
Parathion	UG/L	1.5	56-38-2				
Pentachlorobenzene	UG/L	5	608-93-5				
Pentachloronitrobenzene	UG/L	ND	82-68-8				
Pentachlorophenol	UG/L	1	87-86-5				
Phenacetin	UG/L	NA	62-44-2				
Phenanthrene	UG/L	50	85-01-8				
Phenol	UG/L	1	108-95-2				
p-Phenylenediamine	UG/L	5	106-50-3				
Phorate	UG/L	ND	298-02-2				
Pronamide	UG/L	ND	23950-58-5				
Pyrene	UG/L	50	129-00-0				
Safrole	UG/L	ND	94-59-7				
1,2,4,5-Tetrachlorobenzene	UG/L	5	95-94-3				
2,3,4,6-Tetrachlorophenol	UG/L	NA	58-90-2				
Thionazin	UG/L	ND	297-97-2				
o-Toluidine	UG/L	5	95-53-4				
1,2,4-Trichlorobenzene	UG/L	5	120-82-1				
2,4,5-Trichlorophenol	UG/L	5	95-95-4				
2,4,6-Trichlorophenol	UG/L	5	88-06-2				
0,0,0-Triethylphosphorothioate	UG/L	NA	126-68-1				
sym-Trinitrobenzene	UG/L	5	99-35-4				
2,4-D	UG/L	50	94-75-7				
2,4,5-T	UG/L	35	93-76-5				
4,4'-DDT	UG/L	0.2	50-29-3				
4,4'-DDE	UG/L	0.2	72-55-9				
4,4'-DDD	UG/L	0.3	72-54-8				
2,4,5-TP (Silvex)	UG/L	0.26	93-72-1				
Aldrin	UG/L	ND	309-00-2				
alpha-BHC	UG/L	0.01	319-84-6				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: C&D Secondary			Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter	Units	Standards					
beta-BHC	UG/L	0.04	319-85-7				
gamma-BHC (Lindane)	UG/L	0.05	58-89-9				
delta-BHC	UG/L	0.04	319-86-8				
Chlordane	UG/L	0.1	57-74-9				
Dieldrin	UG/L	ND	60-57-1				
Endosulfan I	UG/L	ND	959-98-8				
Endosulfan II	UG/L	ND	33213-65-9				
Endosulfan Sulfate	UG/L	ND	1031-07-8				
Endrin	UG/L	ND	72-20-8				
Endrin aldehyde	UG/L	5	7421-93-4				
Famphur	UG/L	NA	52-85-7				
Heptachlor	UG/L	0.04	76-44-8				
Heptachlor epoxide	UG/L	0.03	1024-57-3				
Kepone	UG/L	ND	143-50-0				
Methoxychlor	UG/L	35	72-43-5				
Toxaphene	UG/L	0.06	8001-35-2				
Aroclor 1016	UG/L	0.1	12674-11-2				
Aroclor 1221	UG/L	0.1	11104-28-2				
Aroclor 1232	UG/L	0.1	11141-16-5				
Aroclor 1242	UG/L	0.1	53469-21-9				
Aroclor 1248	UG/L	0.1	12672-29-6				
Aroclor 1254	UG/L	0.1	11097-69-1				
Aroclor 1260	UG/L	0.1	11096-82-5				
Aroclor 1262	UG/L	0.1	37324-23-5				
Aroclor 1268	UG/L	0.1	11100-14-4				
Detectable concentrations only J = Estimated Value S.U. = standard units ms/cm = millisiemens per centimeter deg. C = degrees in Celsius N.T.U. = nephelometric turbidity units MG/L = milligrams per liter UG/L = micrograms per liter C.U. = color units MG/L-N = nitrogen/nitrate Bold =Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)							

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: Landfill #2 Leachate	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter							
Specific Conductance	umhos/cm	NA	(FSPECN)		17.3		7.68
Temperature	deg. C	NA	(TEMP)		18.26		14.01
pH	S.U.	6.5-8.5	(FPHSU)		6.07		6.99
Turbidity	NTU	5	(TURB)		62.1		52.1
Aluminum - Total	MG/L	NA	T7429-90-5		0.05 J		
Antimony - Total	MG/L	0.003	T7440-36-0				
Arsenic - Total	MG/L	0.025	T7440-38-2				
Barium - Total	MG/L	1	T7440-39-3		1.01		0.637
Beryllium - Total	MG/L	0.003	T7440-41-7				
Boron - Total	MG/L	1	T7440-42-8		5.84		3.41
Cadmium - Total	MG/L	0.01	T7440-43-9				
Calcium - Total	MG/L	NA	T7440-70-2		178		148
Chromium - Total	MG/L	0.05	T7440-47-3		0.026		0.01
Cobalt - Total	MG/L	NA	T7440-48-4		0.019 J		0.013 J
Copper - Total	MG/L	0.2	T7440-50-8				
Iron - Total	MG/L	0.3	T7439-89-6		4.19		3.33
Lead - Total	MG/L	0.025	T7439-92-1				
Magnesium - Total	MG/L	35	T7439-95-4		311		174
Manganese - Total	MG/L	0.3	T7439-96-5		0.179		0.208
Mercury - Total	MG/L	0.0007	T7439-97-6				
Molybdenum - Total	MG/L		T7439-98-7				
Nickel - Total	MG/L	0.1	T7440-02-0		0.088		0.069
Potassium - Total	MG/L	NA	T7440-09-7		375		225
Selenium - Total	MG/L	0.01	T7782-49-2				
Silver - Total	MG/L	0.05	T7440-22-4				
Sodium - Total	MG/L	20	T7440-23-5		1010		602
Thallium - Total	MG/L	0.0005	T7440-28-0		0.012		
Tin - Total	MG/L	NA	T7440-31-5				
Vanadium - Total	MG/L	NA	T7440-62-2		0.005 J		0.004 J
Zinc - Total	MG/L	2	T7440-66-6		0.009 J		0.016 J
Ammonia	MG/L-N	2	7664-41-7		616		245
Biochemical Oxygen Demand	MG/L	NA	BOD		81.6		28.1
Color	C.U.	15	COLOR		170		500
Hexavalent Chromium - Total	MG/L	0.05	T18540-29-9				
Nitrate	MG/L-N	10	NITRATE				2.3
Total Alkalinity	MG/L	NA	TALK		3570		2,020
Chloride	MG/L	250	CL		1870		1,190
Chemical Oxygen Demand	MG/L	NA	COD		1290		833
Sulfide	MG/L	NA	18496-25-8				
Sulfate	MG/L	250	SULFATE		52		134
Cyanide - Total	MG/L	0.0002	T57-12-5				0.0107
Total Dissolved Solids	MG/L	500	TDS		5420		3,420
Total Kjeldahl Nitrogen	MG/L-N	NA	TKN		463		260
Total Organic Carbon	MG/L	NA	TOC		236		145
Total Recoverable Phenolics	MG/L	0.001	TPHENOLS		0.0216		0.0119
Total Hardness	MG/L	NA	THARD		2100		1,250
Bromide	MG/L	2	BROMIDE		103		54.1
Acetone	UG/L	50	67-64-1				
Acetonitrile	UG/L	NA	75-05-8				
Acrolein	UG/L	5	107-02-8				
Acrylonitrile	UG/L	5	107-13-1				
3-Chloropropene (Allyl Chlor.)	UG/L	5	107-05-1				
Benzene	UG/L	1	71-43-2		4.8 J		2.9 J
Bromochloromethane	UG/L	5	74-97-5				
Bromodichloromethane	UG/L	50	75-27-4				
Bromoform	UG/L	5	75-25-2				
Carbon Disulfide	UG/L	60	75-15-0				
Carbon Tetrachloride	UG/L	5	56-23-5				
Chlorobenzene	UG/L	5	108-90-7		2.5 J		
Chloroethane	UG/L	5	75-00-3				
Chloroform	UG/L	7	67-66-3				
2-Chloro-1,3-butadiene	UG/L	5	126-99-8				
Dibromochloromethane	UG/L	50	124-48-1				
4-Bromofluorobenzene	UG/L		460-00-4				
Dibromofluoromethane	UG/L		1868-53-7				
1,2-Dibromo-3-chloropropane	UG/L	0.04	96-12-8				
1,2-Dibromoethane	UG/L	5	106-93-4				
1,2-Dichlorobenzene	UG/L	3	95-50-1				
1,3-Dichlorobenzene	UG/L	3	541-73-1				
1,4-Dichlorobenzene	UG/L	3	106-46-7		3.2 J		
trans-1,4-Dichloro-2-butene	UG/L	5	110-57-6				
Dichlorodifluoromethane	UG/L						
1,1-Dichloroethane	UG/L	5	75-34-3				
1,2-Dichloroethane	UG/L	0.6	107-06-2				
1,1-Dichloroethene	UG/L	5	75-35-4				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: Landfill #2 Leachate	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter							
cis-1,2-Dichloroethene	UG/L	5	156-59-2				
trans-1,2-Dichloroethene	UG/L	5	156-60-5				
1,2-Dichloropropane	UG/L	1	78-87-5				
1,3-Dichloropropane	UG/L						
2,2-Dichloropropane	UG/L	5	594-20-7				
1,1-Dichloropropene	UG/L	5	563-58-6				
cis-1,3-Dichloropropene	UG/L	0.4	10061-01-5				
trans-1,3-Dichloropropene	UG/L	0.4	10061-02-6				
Ethylbenzene	UG/L	5	100-41-4				
Ethyl methacrylate	UG/L	NA	97-63-2				
2-Hexanone	UG/L	50	591-78-6				
Isobutanol	UG/L	NA	78-83-1				
Methacrylonitrile	UG/L	5	126-98-7				
Bromomethane	UG/L	50	74-83-9				
Chloromethane	UG/L	5	74-87-3				
2-Butanone	UG/L	50	78-93-3				
Iodomethane	UG/L	5	74-88-4				
4-Methyl-2-pentanone	UG/L	NA	108-10-1				
Methyl methacrylate	UG/L	50	80-62-6				
Dibromomethane	UG/L	NA	74-95-3				
Methylene chloride	UG/L	5	75-09-2				
Propionitrile	UG/L	NA	107-12-0				
Styrene	UG/L	5	100-42-5				
1,1,1,2-Tetrachloroethane	UG/L	5	630-20-6				
1,1,2,2-Tetrachloroethane	UG/L	5	79-34-5				
Tetrachloroethene	UG/L	5	127-18-4				
Toluene	UG/L	5	108-88-3				
1,1,1-Trichloroethane	UG/L	5	71-55-6				
1,1,2-Trichloroethane	UG/L	1	79-00-5				
Trichloroethene	UG/L	5	79-01-6				
Trichlorofluoromethane	UG/L	5	75-69-4				
1,2,3-Trichloropropane	UG/L	0.04	96-18-4				
Vinyl acetate	UG/L	NA	108-05-4				
Vinyl chloride	UG/L	2	75-01-4				
m,p- Xylenes	UG/L	5	1330-20-7		8.5 J		3 J
o-Xylene	UG/L	5			2.8 J		
Acenaphthene	UG/L	20	83-32-9				
Acenaphthylene	UG/L	NA	208-96-8				
Acetophenone	UG/L	NA	98-86-2				
2-Acetylaminofluorene	UG/L	NA	53-96-3				
4-Aminobiphenyl	UG/L	5	92-67-1				
Anthracene	UG/L	50	120-12-7		2.1 J		
Benzo(a)anthracene	UG/L	0.002	56-55-3				
Benzo(b)fluoranthene	UG/L	0.002	205-99-2				
Benzo(k)fluoranthene	UG/L	0.002	207-08-9				
Benzo(ghi)perylene	UG/L	NA	191-24-2				
Benzo(a)pyrene	UG/L	ND	50-32-8				
Benzyol alcohol	UG/L	NA	100-51-6				
Bis(2-chloroethoxy) methane	UG/L	5	111-91-1				
Bis(2-chloroethyl) ether	UG/L	1	111-44-4				
Bis(2-ethylhexyl) phthalate	UG/L	5	117-81-7				
4-Bromophenyl phenyl ether	UG/L	NA	101-55-3				
Butyl benzyl phthalate	UG/L	50	85-68-7				
4-Chloroaniline	UG/L	5	106-47-8				
Chlorobenzilate	UG/L	10	510-15-6				
4-Chloro-3-methylphenol	UG/L	5	59-50-7				
2-Chloronaphthalene	UG/L	10	91-58-7				
2-Chlorophenol	UG/L	NA	95-57-8				
4-Chlorophenyl phenyl ether	UG/L	NA	7005-72-3				
Chrysene	UG/L	0.002	218-01-9				
2-Methylphenol	UG/L	NA	95-48-7				
(3+4)-Methylphenol	UG/L	NA	106-44-5				
Diallate	UG/L	NA	2303-16-4				
Dibenzo(a,h)anthracene	UG/L	NA	53-70-3				
Dibenzofuran	UG/L	NA	132-64-9				
Di-n-butyl phthalate	UG/L	50	84-74-2				
3,3'-Dichlorobenzidine	UG/L	5	91-94-1				
2,4-Dichlorophenol	UG/L	5	120-83-2				
2,6-Dichlorophenol	UG/L	NA	87-65-0				
Diethyl phthalate	UG/L	50	84-66-2				
Dimethoate	UG/L	NA	60-51-5				
p-Dimethylaminoazobenzene	UG/L	NA	60-11-7				
7,12-Dimethylbenz(a)anthracene	UG/L	NA	57-97-6				
3,3'-Dimethylbenzidine	UG/L	5	119-93-7				
2,4-Dimethylphenol	UG/L	50	105-67-9				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill Location: Landfill #2 Leachate	Units	Standards	Lab Sample ID CAS #	2022			
				Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter							
Dimethyl phthalate	UG/L	50	131-11-3				
m-Dinitrobenzene	UG/L	5	99-65-0				
4,6-Dinitro-2-methylphenol	UG/L	1	534-52-1				
2,4-Dinitrophenol	UG/L	10	51-28-5				
2,4-Dinitrotoluene	UG/L	5	121-14-2				
2,6-Dinitrotoluene	UG/L	5	606-20-2				
Di-n-octyl phthalate	UG/L	50	117-84-0				
Dinoseb	UG/L	NA	88-85-7A				
Diphenylamine	UG/L	5	122-39-4				
Disulfoton	UG/L	ND	298-04-4				
Ethyl methane sulfonate	UG/L	NA	62-50-0				
Fluoranthene	UG/L	50	206-44-0				
Fluorene	UG/L	50	86-73-7				
Hexachlorobenzene	UG/L	0.04	118-74-1				
Hexachlorobutadiene	UG/L	0.5	87-68-3				
Hexachlorocyclopentadiene	UG/L	5	77-47-4				
Hexachloroethane	UG/L	5	67-72-1				
Hexachloropropene	UG/L	5	1888-71-7				
Indeno(1,2,3-cd)pyrene	UG/L	0.002	193-39-5				
Isodrin	UG/L	5	465-73-6				
Isophorone	UG/L	50	78-59-1				
Isosafrole	UG/L	NA	120-58-1				
Methapyrilene	UG/L	NA	91-80-5				
3-Methylcholanthrene	UG/L	NA	56-49-5				
Methyl methanesulfonate	UG/L	NA	66-27-3				
2-Methylnaphthalene	UG/L	NA	91-57-6				
Methyl parathion	UG/L	1.5	298-00-0				
Naphthalene	UG/L	10	91-20-3		6.9	J	
1-Naphthylamine	UG/L	NA	134-32-7				
2-Naphthylamine	UG/L	NA	91-59-8				
2-Nitroaniline	UG/L	5	88-74-4				
3-Nitroaniline	UG/L	5	99-09-2				
4-Nitroaniline	UG/L	5	100-01-6				
Nitrobenzene	UG/L	0.4	98-95-3				
2-Nitrophenol	UG/L	NA	88-75-5				
4-Nitrophenol	UG/L	5	100-02-7				
N-Nitrosodi-n-butylamine	UG/L	NA	924-16-3				
N-Nitrosodiethylamine	UG/L	NA	55-18-5				
N-Nitrosodimethylamine	UG/L	NA	62-75-9				
N-nitrosodiphenylamine	UG/L	NA	86-30-6				
N-Nitroso-Di-n-propylamine	UG/L	NA	621-64-7				
N-Nitrosomethylethylamine	UG/L	NA	10595-95-6				
N-Nitrosopiperidine	UG/L	NA	100-75-4				
N-Nitrosopyrrolidine	UG/L	NA	930-55-2				
5-Nitro-o-toluidine	UG/L	5	99-55-8				
2,2'-Oxybis(1-Chloropropane)	UG/L	NA	108-60-1				
Parathion	UG/L	1.5	56-38-2				
Pentachlorobenzene	UG/L	5	608-93-5				
Pentachloronitrobenzene	UG/L	ND	82-68-8				
Pentachlorophenol	UG/L	1	87-86-5				
Phenacetin	UG/L	NA	62-44-2				
Phenanthrene	UG/L	50	85-01-8				
Phenol	UG/L	1	108-95-2				
p-Phenylenediamine	UG/L	5	106-50-3				
Phorate	UG/L	ND	298-02-2				
Pronamide	UG/L	ND	23950-58-5				
Pyrene	UG/L	50	129-00-0				
Safrole	UG/L	ND	94-59-7				
1,2,4,5-Tetrachlorobenzene	UG/L	5	95-94-3				
2,3,4,6-Tetrachlorophenol	UG/L	NA	58-90-2				
Thionazin	UG/L	ND	297-97-2				
o-Toluidine	UG/L	5	95-53-4		2.4	J	
1,2,4-Trichlorobenzene	UG/L	5	120-82-1				
2,4,5-Trichlorophenol	UG/L	5	95-95-4				
2,4,6-Trichlorophenol	UG/L	5	88-06-2				
0,0,0-Triethylphosphorothioate	UG/L	NA	126-68-1				
sym-Trinitrobenzene	UG/L	5	99-35-4				
2,4-D	UG/L	50	94-75-7				
2,4,5-T	UG/L	35	93-76-5				
4,4'-DDT	UG/L	0.2	50-29-3				
4,4'-DDE	UG/L	0.2	72-55-9				
4,4'-DDD	UG/L	0.3	72-54-8				
2,4,5-TP (Silvex)	UG/L	0.26	93-72-1				
Aldrin	UG/L	ND	309-00-2				
alpha-BHC	UG/L	0.01	319-84-6				

TABLE 5
SUMMARY OF WATER SAMPLE RESULTS: 2022 Q1 to Q4

NCRDD Landfill				2022				
Location: Landfill #2 Leachate		Units	Standards	Lab Sample ID CAS #	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Parameter								
beta-BHC		UG/L	0.04	319-85-7				
gamma-BHC (Lindane)		UG/L	0.05	58-89-9				
delta-BHC		UG/L	0.04	319-86-8				
Chlordane		UG/L	0.1	57-74-9				
Dieldrin		UG/L	ND	60-57-1				
Endosulfan I		UG/L	ND	959-98-8				0.022 J
Endosulfan II		UG/L	ND	33213-65-9				
Endosulfan Sulfate		UG/L	ND	1031-07-8				
Endrin		UG/L	ND	72-20-8				
Endrin aldehyde		UG/L	5	7421-93-4				
Famphur		UG/L	NA	52-85-7				
Heptachlor		UG/L	0.04	76-44-8				
Heptachlor epoxide		UG/L	0.03	1024-57-3				
Kepone		UG/L	ND	143-50-0				
Methoxychlor		UG/L	35	72-43-5				
Toxaphene		UG/L	0.06	8001-35-2				
Aroclor 1016		UG/L	0.1	12674-11-2				
Aroclor 1221		UG/L	0.1	11104-28-2				
Aroclor 1232		UG/L	0.1	11141-16-5				
Aroclor 1242		UG/L	0.1	53469-21-9				
Aroclor 1248		UG/L	0.1	12672-29-6				
Aroclor 1254		UG/L	0.1	11097-69-1				
Aroclor 1260		UG/L	0.1	11096-82-5				
Aroclor 1262		UG/L	0.1	37324-23-5				
Aroclor 1268		UG/L	0.1	11100-14-4				

Detectable concentrations only

J = Estimated Value

P = The concentration between the two GC columns was greater than 40%; the lower result has been reported.

S.U. = standard units

ms/cm = millisiemens per centimeter

deg. C = degrees in Celsius

N.T.U. = nephelometric turbidity units

MG/L = milligrams per liter

UG/L = micrograms per liter

C.U. = color units

MG/L-N = nitrogen/nitrate

Bold =Analyte exceeds NYSDEC Division of Technical and Operations Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1998)



FIGURES





LEGEND

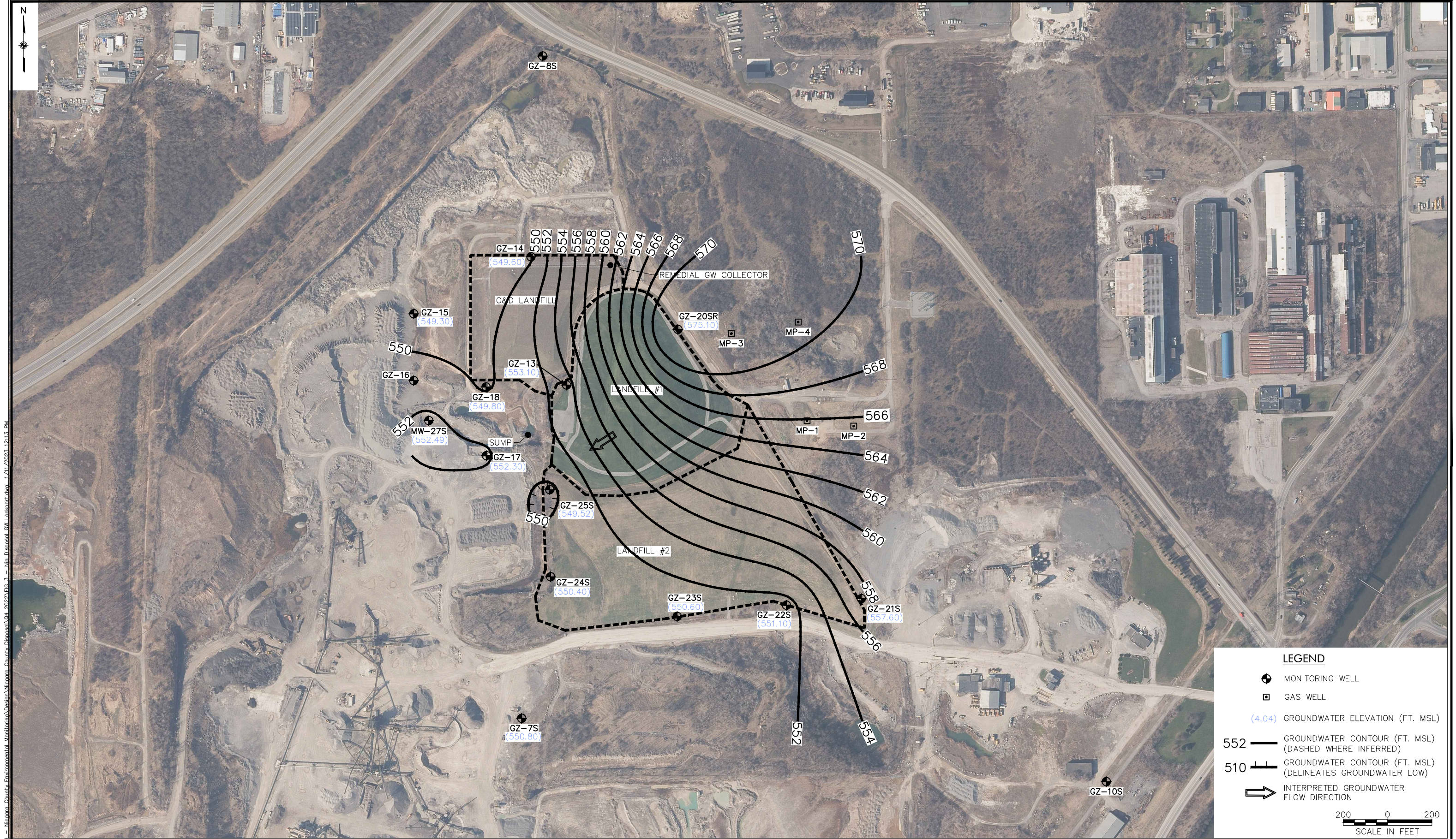
MONITORING WELL

GAS WELL

2000200

SCALE IN FEET

WARNING IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.				 LiRo Engineers, Inc. 690 Delaware Avenue Buffalo, New York	PROJ. ENG.:	 NIAGARA COUNTY DEPARTMENT OF PUBLIC WORKS			JOB TITLE AND LOCATION:			LIRO JOB NO.:		
	DESIGNED BY:	NIAGARA COUNTY REFUSE DISPOSAL DISTRICT STATE ROUTE 93, LOCKPORT, NY			22-033-2914									
	CHECKED BY:				SHEET OF									



V:\Niagara County\22-033-2914 - Niagara County Environmental Monitoring\Design\Niagara County Disposal\04_2022\FG 3 - Nia Disposal GW Lockport.dwg 1/11/2023 12:13 PM

WARNING

IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO.	DATE	DESCRIPTION
REVISIONS		



LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

PROJ. ENG.:	CLIENT:		
DESIGNED BY:		NIAGARA COUNTY DEPARTMENT OF PUBLIC WORKS	
CHECKED BY:			
DRAWN BY:		DATE:	SCALE:
	APRIL 2023	AS SHOWN	

JOB TITLE AND LOCATION:	URO JOB NO.:
NIAGARA COUNTY REFUSE DISPOSAL DISTRICT STATE ROUTE 93, LOCKPORT, NY	22-033-2914
DRAWING TITLE:	SHEET OF
GROUNDWATER CONTOUR MAP LOCKPORT FORMATION - 2022-Q4	3 4
	FIGURE NO.
	3



ATTACHMENT A
Well Purge Logs

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 37 cloudy

Purge Device:	☒	Bailer	☒	crystalline	☒	1/2hale	☒	Grundfos	☒	Other:	water
Sample Device:	☒	Bailer	☒	crystalline	☒	1/2hale	☒	Grundfos	☒	Other:	water

Other Information	(List Parameters if not All)
-------------------	------------------------------

[illegible]



LiRo Engineers, Inc.

**LOW FLOW / LOW STRESS
GROUNDWATER PURGE AND SAMPLING LOG**

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: GZ-20S[R]

Sampling Personnel: M. Kolpinski/N. Yu

Date: 11/28/22

Conditions: 37 cloudy

Measuring Point (MP):	Initial Depth to Water (below MP):	20.9	Depth to Well Bottom (below MP):	44.3	Screen Setting/ Open Hole (feet below MP) from:	to:
-----------------------	------------------------------------	------	----------------------------------	------	---	-----

Well Diameter: 2 in Casing Type: Screen Length: Volume in 1 Well Casing (Gallons): 3.5 Estimated Purge Volume (Gallons): 10.5

Purge Device:	☐	Bailer	☐	crystallic	☐	W/hale	☐	Grundfos	☐	Other:	<u> wattera </u>
Sample Device:	☐	Bailer	☐	crystallic	☐	W/hale	☐	Grundfos	☐	Other:	<u> wattera </u>

Sample ID: GZ-20SR **Sample Time:** 847

QA/QC:

Sampling Parameter(s) (Check All That Apply) ☐ TCL VOCs ☐ TCL SVOCs ☐ Pesticides ☒ Routine ☐ MS/MSD: ☐ All
☐ 1,4-Dioxane ☐ Metals-Filter ☐ Herbicides ☐ Baseline

Other Information	(List Parameters if not All)
-------------------	------------------------------

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 37 cloudy

Purge Device:	☐	Bailer	☐	crystallic	☐	W/hale	☐	Grundfos	☐	Other: _____
Sample Device:	☐	Bailer	☐	crystallic	☐	W/hale	☒	Grundfos	☐	Other: _____

☐ Duplicate: ☐ All

(List Parameters if not All)

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: GZ-23S

Sampling Personnel: M. Kolpinski/N. Yu

Date: 11/28/22

Conditions: 37 cloudy

Measuring Point (MP):	Initial Depth to Water (below MP):	6.5	Depth to Well Bottom (below MP):	20.3	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	2	Estimated Purge Volume (Gallons):	6.3
----------------	------	--------------	----------------	---------------------------------------	---	--------------------------------------	-----

Purge Device:	☐ ailer	☐ eristaltic	☐ hale	☐ rundfos	☒ Other: watertra
Sample Device:	☐ ailer	☐ eristaltic	☐ hale	☐ rundfos	☒ Other: watertra

Sample ID: GZ-23S Sample Time: 1045

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☒ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☐ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

Other
Information DUP-01 at 1050

☐ Duplicate: ☐ All

(List Parameters if not All)

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Sampling Personnel: M. Kolpinski/ N.Yu **Date:** 11/29/22 **Conditions:** 40 cloudy

Purge Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____
Sample Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____

Other Information (List Parameters if not All)

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: GZ-25S

Personnel: M. Kolpinski/N. Yu

Date: 11/29/22

Conditions: 40 cloudy

Measuring Point (MP):	Initial Depth to Water (below MP):	72.48	Depth to Well Bottom (below MP):	83.7	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	1.5	Estimated Purge Volume (Gallons):	4.5
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Purge Device:	☐	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____
Sample Device:	☒	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____

Sample ID: GZ-25S Sample Time: 922

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☐ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☒ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

☐ Duplicate: ☐ All

(List Parameters if not All)

Other Information

PURGE PARAMETER LOG

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal District

Well I.D.: MW-27S

Sampling Personnel: J. Williams/N. Yu

Date: 11/30/22

Conditions: 28 windy and rain

Measuring Point (MP):	Initial Depth to Water (below MP):	13.2	Depth to Well Bottom (below MP):	32.6	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	3.5	Estimated Purge Volume (Gallons):	10.5
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Purge Device:	☐	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____
Sample Device:	☒	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____

Sample ID: MW-27S Sample Time: 840

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☐ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☒ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

Duplicate: All

(List Parameters if not All)

Other Information

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 37 cloudy

Purge Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____
Sample Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____

Other Information

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: GZ-13

Sampling Personnel: $\angle$. Kolpinski/N. Yu

Date: 11/29/22

Conditions: 40 cloudy

Measuring Point (MP):	564.3	Initial Depth to Water (below MP):	11.2	Depth to Well Bottom (below MP):	29.7	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	PVC	Screen Length:	Volume in 1 Well Casing (Gallons):	2.5	Estimated Purge Volume (Gallons):	7.5
----------------	------	--------------	-----	----------------	------------------------------------	-----	-----------------------------------	-----

Purge Device:	☐ ailer	☐ eristaltic	☐ hale	☐ rundfos	☒ Other: water
Sample Device:	☐ ailer	☐ eristaltic	☐ hale	☐ rundfos	☒ Other: water

Sample ID: GZ-13 Sample Time: 1145

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☐ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☒ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

☐ Duplicate: ☐ All

(List Parameters if not All)

Other Information

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 40 cloudy

Purge Device:	☒	Bailer	☒	crystallic	☒	W/hale	☒	Grundfos	☒	Other:	water
Sample Device:	☒	Bailer	☒	crystallic	☒	W/hale	☒	Grundfos	☒	Other:	water

Other Information (List Parameters if not All)

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: GZ-15

Sampling Personnel: M. Kolpinski/N. Yu

Date: 11/29/22

Conditions: 40 cloudy

Measuring Point (MP):	552.5	Initial Depth to Water (below MP):	3.2	Depth to Well Bottom (below MP):	10.1	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	PVC	Screen Length:	9.5-19.5	Volume in 1 Well Casing (Gallons):	1	Estimated Purge Volume (Gallons):	3
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Purge Device:	☐	Bailer	☐	crystalline	☐	1/2hale	☐	Grundfos	☒	Other: water
Sample Device:	☐	Bailer	☐	crystalline	☐	1/2hale	☐	Grundfos	☒	Other: water

Sample ID: GZ-15 Sample Time: 1300

OA/OC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs
 ☐ TCL SVOCs
 ☐ Pesticides
 ☒ Routine
 ☐ MS/MSD: ☐ All
☐ 1,4-Dioxane
 ☐ Metals-Filter
 ☐ Herbicides
 ☐ Baseline

(List Parameters if not All)

☐ TCL VOCs ☐ TCL SVOCs ☐ Pesticides ☒ Routine☐ 1,4-Dioxane ☐ Metals-Filter ☐ Herbicides ☐ Baseline

☐ PCBs ☐ Metals-UnF ☐ PFAS ☐ Expanded

Other Information

☐ Duplicate: ☐ All

(List Parameters if not All)

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 28 windy and rain

Purge Device:	☐ Hailer	☐ Crystalline	☐ Whale	☐ Grundfos	☐ Other: _____
Sample Device:	☒ Hailer	☐ Crystalline	☐ Whale	☐ Grundfos	☐ Other: _____

Other Information

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 40 cloudy

Purge Device:	☒	Bailer	☒	crystallic	☒	W/hale	☒	Grundfos	☒	Other:	water
Sample Device:	☒	Bailer	☒	crystallic	☒	W/hale	☒	Grundfos	☒	Other:	water

Other Information (List Parameters if not All)

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 37 cloudy

Purge Device:	☐	Bailer	☐	Peristaltic	☐	1/2hale	☐	Grundfos	☒	Other:	Waterra
Sample Device:	☐	Bailer	☐	Peristaltic	☐	1/2hale	☐	Grundfos	☒	Other:	Waterra

Other Information _____ (List Parameters if not All)

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Sampling Personnel: M. Kolpinski/N. Yu **Date:** 11/30/22 **Conditions:** 28 windy and rain

Purge Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____
Sample Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____

Other	(List Parameters if not All)
Information purged dry 11-28. only got VOC, Metals, Metals-HG, Dissolved metals	

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 40 cloudy

Purge Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____
Sample Device:	☒	Bailer	☐	crystalline	☐	W/hale	☐	Grundfos	☐	Other: _____

Information Dup-02 at 855

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: MW-26D

Sampling Personnel: J. Williams/N. Yu

Date: 3/30/22

Conditions:

Measuring Point (MP):	Initial Depth to Water (below MP):	Depth to Well Bottom (below MP):	40	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	Estimated Purge Volume (Gallons):
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Purge Device: ☐ Hailer ☐ Peristaltic ☐ Whale ☐ Grundfos ☐ Other: _____

Sample Device: ☐ Hailer ☐ Peristaltic ☐ Whale ☐ Grundfos ☐ Other: _____

Sample ID: _____ Sample Time: _____

QA/QC:

Sampling Parameter(s) (Check All That Apply) ☐ TCL VOCs ☐ TCL SVOCs ☐ Pesticides ☐ Routine ☐ MS/MSD: ☐ All
☐ 1,4-Dioxane ☐ Metals-Filter ☐ Herbicides ☐ Baseline (List Parameters if not All)

Other
Information Well was Dry - No Sample Collected

PURGE PARAMETER LOG

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: MW-27DD

Personnel:M. Kolpinski/N. Yu

Date: 11/30/22

Conditions: 28 widy and rain

Measuring Point (MP):	Initial Depth to Water (below MP):	22.1	Depth to Well Bottom (below MP):	74.4	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	8.4	Estimated Purge Volume (Gallons):	25.2
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Purge Device:	☒ Siler	☐ eristaltic	☐ /hale	☐ rundfos	☐ Other: _____
Sample Device:	☒ Siler	☐ eristaltic	☐ /hale	☐ rundfos	☐ Other: _____

Sample ID: MW-27DD Sample Time: 930

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☐ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☒ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

☐ Duplicate: ☐ All

(List Parameters if not All)

Other Information

PURGE PARAMETER LOG

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: MW-28D

Personnel: M. Kolpinski/N. Yu

Date: 11/28/22

Conditions: 37 cloudy

Measuring Point (MP):	Initial Depth to Water (below MP):	19.4	Depth to Well Bottom (below MP):	76.3	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	2 in	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	9	Estimated Purge Volume (Gallons):	27
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Purge Device: ☒ Hailer ☐ Crystalline ☐ Whale ☐ Grundfos ☐ Other: _____

Sample Device: ☒ Hailer ☐ Crystalline ☐ Whale ☐ Grundfos ☐ Other: _____

Sample ID: MW-28D Sample Time: 1220

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☒ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☐ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All
(List Parameters if not All)

☐ Duplicate: ☐ All

(List Parameters if not All)

Other Information

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Well I.D.: MW-29D

Conditions: 37 cloudy

Purge Device:	☐ Siler	☐ Crystalltic	☐ hale	☐	Grundfos	☐ Other: _____
Sample Device:	☒ Siler	☐ Crystalltic	☐ hale	☐	Grundfos	☐ Other: _____

Other Information (List Parameters if not All)

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Sampling Personnel: M. Kolpinski/N. Yu **Date:** 11/28/22 **Conditions:** 37 cloudy

Purge Device:	☒	Bailer	☐	Crystalline	☐	Whale	☐	Grundfos	☐	Other: _____
Sample Device:	☒	Bailer	☐	Crystalline	☐	Whale	☐	Grundfos	☐	Other: _____

Other Information No Purge. (List Parameters if not All)

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Measuring Point (MP):	Initial Depth to Water (below MP):		Depth to Well Bottom (below MP):		Screen Setting/ Open Hole (feet below MP)	
	20.5				from: to:	
Well Diameter:	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):		Estimated Purge Volume (Gallons):	
Purge Device:	☐ Bailer	☐ 1/2" Crisaltic	☐ 1/2" Crisaltic	☐ 1/2" Crisaltic	☐ Other: _____	
Sample Device:	☒ Bailer	☐ 1/2" Crisaltic	☐ 1/2" Crisaltic	☐ 1/2" Crisaltic	☐ Other: _____	

PURGE PARAMETER LOG

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: Sump

Sampling Personnel: M. Kolpinski/N.Yu

Date: 11/30/22

Conditions: 28 windy and rain

Measuring Point (MP):	Initial Depth to Water (below MP):	Depth to Well Bottom (below MP):	Screen Setting/ Open Hole (feet below MP) from: to:

Well Diameter:	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	Estimated Purge Volume (Gallons):
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Purge Device:	☒ Trailer	☐ Crystalline	☐ /hale	☐ Grundfos	☐ Other: _____
Sample Device:	☒ Trailer	☐ Crystalline	☐ /hale	☐ Grundfos	☐ Other: _____

Sample ID: sump **Sample Time:** 940

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☐ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☒ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☐ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

Other
Information no purge

☐ Duplicate: ☐ All

(List Parameters if not All)

PURGE PARAMETER LOG

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 40 cloudy

Purge Device:	☒ Sailer	☐ Crystalline	☐ Whale	☐ Grundfos	☐ Other: _____
Sample Device:	☒ Sailer	☐ Crystalline	☐ Whale	☐ Grundfos	☐ Other: _____

Information	Information no purge	Information purge
Other		
Information no purge		

[illegible]

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Conditions: 40 cloudy

Purge Device:	☐	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____
Sample Device:	☒	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____

☐ Duplicate: ☐ All

(List Parameters if not All)

PURGE PARAMETER LOG

[illegible]



LiRo Engineers, Inc.

LOW FLOW / LOW STRESS GROUNDWATER PURGE AND SAMPLING LOG

Project: Niagara County

Site: NC Refuse Disposal

Well I.D.: Landfill 2 Leachate Storage

Sampling Personnel: M. Kolpinski/N.Yu

Date: 11/29/22

Conditions: 40 cloudy

Measuring Point (MP):	Initial Depth to Water (below MP):	18.5	Depth to Well Bottom (below MP):	Screen Setting/ Open Hole (feet below MP) from:	to:
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Well Diameter:	Casing Type:	Screen Length:	Volume in 1 Well Casing (Gallons):	Estimated Purge Volume (Gallons):
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Purge Device:	☐	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____
Sample Device:	☒	ailer	☐	eristaltic	☐	/hale	☐	grundfos	☐	Other: _____

Sample ID: L2LS **Sample Time:** 1350

QA/QC:

Sampling Parameter(s)
(Check All That Apply)

☐ TCL VOCs	☐ TCL SVOCs	☐ Pesticides	☐ Routine
☐ 1,4-Dioxane	☐ Metals-Filter	☐ Herbicides	☐ Baseline
☐ PCBs	☐ Metals-UnF	☐ PFAS	☒ Expanded

☐ MS/MSD: ☐ All

(List Parameters if not All)

☐ Duplicate: ☐ All

(List Parameters if not All)

Other
Information no purge

PURGE PARAMETER LOG

[illegible]



ATTACHMENT B
Data Usability Summary Report

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Niagara Co. Landfill (NCRDD)
ALS Environmental SDG#R2211441
April 14, 2023
Sampling date: 11/30/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Niagara Co. Landfill (NCRDD)
SDG# R2211441

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for The LiRo Group, project located at Niagara Co. Landfill (NCRDD), ALS Environmental SDG #R2211441 submitted to Vali-Data of WNY, LLC on February 3, 2023. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analyses using USEPA methods: Volatile Organic Compounds (8260C), Inorganics (6010C), Mercury (7470A) and in accordance with wet chemistry methods.

ID	Sample ID	Laboratory ID
1	MW-27S	R2211441-001
2	MW-27S Diss	R2211441-002
3	MW-27DD	R2211441-003
4	MW-27DD Diss	R2211441-004
5	SUMP	R2211441-005
6	SUMP Diss	R2211441-006
7	GZ-17	R2211441-007
8	G-17 Diss	R2211441-008
9	GZ-22	R2211441-009
10	GZ-22 Diss	R2211441-010

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the

Niagara Co. Landfill (NCRDD)

SDG# R2211441

procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Laboratory Control Samples and Continuing Calibration.

Sample: DUSR ID#3 was diluted.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

No field duplicate was acquired.

LABORATORY CONTROL SAMPLES

All criteria were met except the %Rec of Chloromethane was outside QC limits, high in RQ2215257 and RQ2215392 and should be qualified as estimated. This target analyte was not detected in the samples, so no further action is required.

MS/MSD

No MS/MSD was acquired.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met.

Alternate forms of regression were performed on target analytes whose %RSD >20%, with acceptable results.

CONTINUING CALIBRATION

All criteria were met except a couple of target analytes were outside QC limits in the continuing calibration. These target analytes should be qualified as estimated in the associated sample, blank and spike.

CcAl File#	Target Analyte	%D, RRF	Qualifier	Associated Sample
V9228.D	Chloromethane	34.8	UJ/J	RQ2215257, 1, 3, 5, 7
V9261.D	Bromomethane	-39.6	UJ/J	RQ2215392, 9
V9261.D	Styrene	26.0	UJ/J	RQ2215392, 9

Some target analytes were outside laboratory QC limits but within NFG limits, so no further action is required.

GC/MS PERFORMANCE CHECK

All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD/Duplicate
- Field Duplicate
- Serial Dilution
- Compound Quantitation
- Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Blanks and Calibration.

Niagara Co. Landfill (NCRDD)

SDG# R2211441

Samples: DUSR ID #1-4 and #7-10 were diluted due to high target analyte concentrations.

The target analytes were recorded to the reporting limit in DUSR ID#2, #4, #6, #8 and #10.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

BLANKS

All criteria were met except several target analytes were outside QC limits in the blanks and should be qualified in the associated samples in which they were detected.

Blank ID	Target Analyte	Concentration(ug/L)	Qualifier	Associated Sample
CCB 12/9/22 18:21	V	50	U at RL	5
CCB 12/9/22 19:38	V	50	U at RL	9
CCB 12/9/22 20:06	K	2000	JH	3, 4

LABORATORY CONTROL SAMPLE

All criteria were met.

MS/MSD/DUPLICATE

No MS/MSD was acquired.

FIELD DUPLICATE

No field duplicate was acquired.

SERIAL DILUTION

No serial dilution was acquired.

COMPOUND QUANTITATION

All criteria were met.

CALIBRATION

All criteria were met except several target analytes were outside QC limits in the calibrations and should be qualified in the associated samples, blanks and spikes.

Niagara Co. Landfill (NCRDD)

SDG# R2211441

Calibration ID	Target Analyte	%Rec	Qualifier	Associated Sample
LLCCV 12/9/22 17:59	As	111	JH	788199LCS/LCSD, 3
LLCCV 12/9/22 17:59	Pb	117	JH	788199LCS/LCSD, 3, 7, 9
LLCCV 12/9/22 17:59	Se	117	JH	788199LCS/LCSD
LLCCV 12/9/22 20:38	Pb	115	JH	788199LCS/LCSD, 3, 7, 9
LLCCV 12/9/22 20:38	Tl	112	JH	788199LCS/LCSD, 3, 4
LLCCV 12/12/22 17:59	Tl	82	UJ/J	9, 10
LLCCV 12/12/22 19:56	K	89	UJ/J	9, 10

GENERAL CHEMISTRY

The following items/criteria were reviewed for this analytical suite:

- Alkalinity
- BOD
- Bromide
- COD
- Color
- Chloride
- Cyanide
- Hexavalent Chromium
- Hardness
- Ammonia-Nitrogen
- Nitrogen-Nitrate
- Phenol
- Sulfate
- TDS
- TKN
- TOC

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below.

ALKALINITY

All criteria were met.

BOD

All criteria were met.

BROMIDE

All criteria were met.

Samples: DUSR ID#1, #3 and #7 were diluted due to high target analyte concentrations.

Sample: DUSR ID#5 was diluted.

COD

All criteria were met.

Sample: DUSR ID#3 was diluted due to high target analyte concentration.

COLOR/pH

All criteria were met except there was a detection in the Method Blank. Color should be qualified as estimated in all of the samples.

Samples: DUSR ID#1, #3, #5 and #7 were diluted due to high target analyte concentrations.

CHLORIDE

All criteria were met except Chloride was detected in the blank, RQ2215108-08. Chloride in samples; DUSR ID#1, #5 and #7 should be qualified as estimated high.

Samples: DUSR ID#1, #3, #5 and #7 were diluted due to high target analyte concentrations.

CYANIDE

All criteria were met.

Sample: DUSR ID#3 was diluted.

HEXAVALENT CHROMIUM

All criteria were met.

HARDNESS

All criteria were met.

AMMONIA-NITROGEN

All criteria were met except the %Rec of Ammonia was outside QC limit low in DUSR ID#1MS/MSD and should be qualified as estimated in DUSR ID#1 and 1MS/MSD.

Samples: DUSR ID#3 and #7 were diluted due to high target analyte concentrations.

NITROGEN-NITRATE

All criteria were met.

Samples: DUSR ID#1, #3, #5 and #7 were diluted due to salinity.

PHENOL

All criteria were met.

Sample: DUSR ID#3 was diluted due to salinity.

SULFATE

All criteria were met.

Samples: DUSR ID#1, #3, #5 and #7 were diluted due to high target analyte concentrations.

TDS

All criteria were met.

TKN

All criteria were met.

Sample: DUSR ID#3 was diluted due to high target analyte concentrations.

TOC

All criteria were met.



Client: LiRo Group
Project: Niagara County Refuse Disposal District
Sample Matrix: Water

Service Request: R2211441
Date Received: 11/30/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Ten water samples were received for analysis at ALS Environmental on 11/30/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 300.0 Nitrate, R2211441-005: The Method Reporting Limit (MRL) was elevated due to salinity of sample.

Method 420.4, R2211441-003: The Method Reporting Limit (MRL) was elevated due to salinity of the sample.

Volatiles by GC/MS:

Method 8260C, 12/08/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/08/2022: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/08/2022: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 12/07/2022: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 12/07/2022: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by _____

Date 12/28/2022

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: MW-27S
Lab Code: R2211441-001

Service Request: R2211441
Date Collected: 11/30/22 09:40
Date Received: 11/30/22 14:30

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	12/07/22 12:38	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	12/07/22 12:38	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 12:38	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 12:38	
2-Butanone (MEK)	0.78 U	10	0.78	1	12/07/22 12:38	
2-Hexanone	0.20 U	10	0.20	1	12/07/22 12:38	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	12/07/22 12:38	
Acetone	5.0 U	10	5.0	1	12/07/22 12:38	
Benzene	0.20 U	5.0	0.20	1	12/07/22 12:38	
Bromochloromethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
Bromodichloromethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
Bromoform	0.25 U	5.0	0.25	1	12/07/22 12:38	
Bromomethane	0.70 U	5.0	0.70	1	12/07/22 12:38	
Carbon Disulfide	0.42 U	10	0.42	1	12/07/22 12:38	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	12/07/22 12:38	
Chlorobenzene	0.20 U	5.0	0.20	1	12/07/22 12:38	
Chloroethane	0.23 U	5.0	0.23	1	12/07/22 12:38	
Chloroform	0.24 U	5.0	0.24	1	12/07/22 12:38	
Chloromethane	0.28 U	5.0	0.28	1	12/07/22 12:38	
Dibromochloromethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
Dibromomethane	0.20 U	5.0	0.20	1	12/07/22 12:38	
Dichloromethane	0.65 U	5.0	0.65	1	12/07/22 12:38	
Ethylbenzene	0.20 U	5.0	0.20	1	12/07/22 12:38	
Iodomethane	4.3 U	10	4.3	1	12/07/22 12:38	
Styrene	0.20 U	5.0	0.20	1	12/07/22 12:38	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	12/07/22 12:38	
Toluene	0.20 U	5.0	0.20	1	12/07/22 12:38	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	12/07/22 12:38	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	12/07/22 12:38	
Vinyl Chloride	0.20 U	5.0	0.20	1	12/07/22 12:38	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	12/07/22 12:38	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	12/07/22 12:38	
m,p-Xylenes	0.20 U	5.0	0.20	1	12/07/22 12:38	

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dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: MW-27S
Lab Code: R2211441-001

Service Request: R2211441
Date Collected: 11/30/22 09:40
Date Received: 11/30/22 14:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
o-Xylene	0.20 U	5.0	0.20	1	12/07/22 12:38	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	12/07/22 12:38	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	12/07/22 12:38	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	12/07/22 12:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	12/07/22 12:38	
Dibromofluoromethane	101	80 - 116	12/07/22 12:38	
Toluene-d8	102	87 - 121	12/07/22 12:38	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: MW-27DD
Lab Code: R2211441-003

Service Request: R2211441
Date Collected: 11/30/22 09:30
Date Received: 11/30/22 14:30

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	25	1.0	5	12/07/22 13:00	
1,1,1-Trichloroethane (TCA)	1.0 U	25	1.0	5	12/07/22 13:00	
1,1,2,2-Tetrachloroethane	1.0 U	25	1.0	5	12/07/22 13:00	
1,1,2-Trichloroethane	1.0 U	25	1.0	5	12/07/22 13:00	
1,1-Dichloroethane (1,1-DCA)	1.0 U	25	1.0	5	12/07/22 13:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	25	1.0	5	12/07/22 13:00	
1,2,3-Trichloropropane	1.3 U	25	1.3	5	12/07/22 13:00	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	25	2.3	5	12/07/22 13:00	
1,2-Dibromoethane	1.0 U	25	1.0	5	12/07/22 13:00	
1,2-Dichlorobenzene	1.0 U	25	1.0	5	12/07/22 13:00	
1,2-Dichloroethane	1.0 U	25	1.0	5	12/07/22 13:00	
1,2-Dichloropropane	1.0 U	25	1.0	5	12/07/22 13:00	
1,3-Dichlorobenzene	1.0 U	25	1.0	5	12/07/22 13:00	
1,4-Dichlorobenzene	1.0 U	25	1.0	5	12/07/22 13:00	
2-Butanone (MEK)	8.8 J	50	3.9	5	12/07/22 13:00	
2-Hexanone	1.0 U	50	1.0	5	12/07/22 13:00	
4-Methyl-2-pentanone	1.0 U	50	1.0	5	12/07/22 13:00	
Acetone	25 U	50	25	5	12/07/22 13:00	
Benzene	14 J	25	1.0	5	12/07/22 13:00	
Bromochloromethane	1.0 U	25	1.0	5	12/07/22 13:00	
Bromodichloromethane	1.0 U	25	1.0	5	12/07/22 13:00	
Bromoform	1.3 U	25	1.3	5	12/07/22 13:00	
Bromomethane	3.5 U	25	3.5	5	12/07/22 13:00	
Carbon Disulfide	13 J	50	2.1	5	12/07/22 13:00	
Carbon Tetrachloride	1.7 U	25	1.7	5	12/07/22 13:00	
Chlorobenzene	1.0 U	25	1.0	5	12/07/22 13:00	
Chloroethane	1.2 U	25	1.2	5	12/07/22 13:00	
Chloroform	1.2 U	25	1.2	5	12/07/22 13:00	
Chloromethane	1.4 U	25	1.4	5	12/07/22 13:00	
Dibromochloromethane	1.0 U	25	1.0	5	12/07/22 13:00	
Dibromomethane	1.0 U	25	1.0	5	12/07/22 13:00	
Dichloromethane	3.3 U	25	3.3	5	12/07/22 13:00	
Ethylbenzene	1.3 J	25	1.0	5	12/07/22 13:00	
Iodomethane	22 U	50	22	5	12/07/22 13:00	
Styrene	1.0 U	25	1.0	5	12/07/22 13:00	
Tetrachloroethene (PCE)	1.1 U	25	1.1	5	12/07/22 13:00	
Toluene	23 J	25	1.0	5	12/07/22 13:00	
Trichloroethene (TCE)	1.0 U	25	1.0	5	12/07/22 13:00	
Trichlorofluoromethane (CFC 11)	1.2 U	25	1.2	5	12/07/22 13:00	
Vinyl Chloride	1.0 U	25	1.0	5	12/07/22 13:00	
cis-1,2-Dichloroethene	1.2 U	25	1.2	5	12/07/22 13:00	
cis-1,3-Dichloropropene	1.0 U	25	1.0	5	12/07/22 13:00	
m,p-Xylenes	6.3 J	25	1.0	5	12/07/22 13:00	

ALS Group USA, Corp.
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Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: MW-27DD
Lab Code: R2211441-003

Service Request: R2211441
Date Collected: 11/30/22 09:30
Date Received: 11/30/22 14:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
o-Xylene	2.0 J	25	1.0	5	12/07/22 13:00	
trans-1,2-Dichloroethene	1.0 U	25	1.0	5	12/07/22 13:00	
trans-1,3-Dichloropropene	1.2 U	25	1.2	5	12/07/22 13:00	
trans-1,4-Dichloro-2-butene	3.9 U	25	3.9	5	12/07/22 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	12/07/22 13:00	
Dibromofluoromethane	101	80 - 116	12/07/22 13:00	
Toluene-d8	101	87 - 121	12/07/22 13:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Service Request: R2211441
Date Collected: 11/30/22 09:40
Date Received: 11/30/22 14:30

Sample Name: SUMP
Lab Code: R2211441-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	12/07/22 13:23	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	12/07/22 13:23	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:23	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:23	
2-Butanone (MEK)	0.78 U	10	0.78	1	12/07/22 13:23	
2-Hexanone	0.20 U	10	0.20	1	12/07/22 13:23	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	12/07/22 13:23	
Acetone	5.0 U	10	5.0	1	12/07/22 13:23	
Benzene	0.20 U	5.0	0.20	1	12/07/22 13:23	
Bromochloromethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
Bromodichloromethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
Bromoform	0.25 U	5.0	0.25	1	12/07/22 13:23	
Bromomethane	0.70 U	5.0	0.70	1	12/07/22 13:23	
Carbon Disulfide	0.42 U	10	0.42	1	12/07/22 13:23	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	12/07/22 13:23	
Chlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:23	
Chloroethane	0.23 U	5.0	0.23	1	12/07/22 13:23	
Chloroform	0.24 U	5.0	0.24	1	12/07/22 13:23	
Chloromethane	0.28 U	5.0	0.28	1	12/07/22 13:23	
Dibromochloromethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
Dibromomethane	0.20 U	5.0	0.20	1	12/07/22 13:23	
Dichloromethane	0.65 U	5.0	0.65	1	12/07/22 13:23	
Ethylbenzene	0.20 U	5.0	0.20	1	12/07/22 13:23	
Iodomethane	4.3 U	10	4.3	1	12/07/22 13:23	
Styrene	0.20 U	5.0	0.20	1	12/07/22 13:23	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	12/07/22 13:23	
Toluene	0.20 U	5.0	0.20	1	12/07/22 13:23	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	12/07/22 13:23	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	12/07/22 13:23	
Vinyl Chloride	0.20 U	5.0	0.20	1	12/07/22 13:23	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	12/07/22 13:23	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	12/07/22 13:23	
m,p-Xylenes	0.20 U	5.0	0.20	1	12/07/22 13:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: SUMP
Lab Code: R2211441-005

Service Request: R2211441
Date Collected: 11/30/22 09:40
Date Received: 11/30/22 14:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
o-Xylene	0.20 U	5.0	0.20	1	12/07/22 13:23	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	12/07/22 13:23	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	12/07/22 13:23	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	12/07/22 13:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	12/07/22 13:23	
Dibromofluoromethane	101	80 - 116	12/07/22 13:23	
Toluene-d8	101	87 - 121	12/07/22 13:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Service Request: R2211441
Date Collected: 11/30/22 09:50
Date Received: 11/30/22 14:30

Sample Name: GZ-17
Lab Code: R2211441-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	12/07/22 13:45	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	12/07/22 13:45	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:45	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:45	
2-Butanone (MEK)	0.78 U	10	0.78	1	12/07/22 13:45	
2-Hexanone	0.20 U	10	0.20	1	12/07/22 13:45	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	12/07/22 13:45	
Acetone	5.0 U	10	5.0	1	12/07/22 13:45	
Benzene	0.20 U	5.0	0.20	1	12/07/22 13:45	
Bromochloromethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
Bromodichloromethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
Bromoform	0.25 U	5.0	0.25	1	12/07/22 13:45	
Bromomethane	0.70 U	5.0	0.70	1	12/07/22 13:45	
Carbon Disulfide	0.42 U	10	0.42	1	12/07/22 13:45	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	12/07/22 13:45	
Chlorobenzene	0.20 U	5.0	0.20	1	12/07/22 13:45	
Chloroethane	0.23 U	5.0	0.23	1	12/07/22 13:45	
Chloroform	0.24 U	5.0	0.24	1	12/07/22 13:45	
Chloromethane	0.28 U	5.0	0.28	1	12/07/22 13:45	
Dibromochloromethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
Dibromomethane	0.20 U	5.0	0.20	1	12/07/22 13:45	
Dichloromethane	0.65 U	5.0	0.65	1	12/07/22 13:45	
Ethylbenzene	0.20 U	5.0	0.20	1	12/07/22 13:45	
Iodomethane	4.3 U	10	4.3	1	12/07/22 13:45	
Styrene	0.20 U	5.0	0.20	1	12/07/22 13:45	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	12/07/22 13:45	
Toluene	0.20 U	5.0	0.20	1	12/07/22 13:45	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	12/07/22 13:45	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	12/07/22 13:45	
Vinyl Chloride	0.20 U	5.0	0.20	1	12/07/22 13:45	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	12/07/22 13:45	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	12/07/22 13:45	
m,p-Xylenes	0.20 U	5.0	0.20	1	12/07/22 13:45	

ALS Group USA, Corp.
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Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: GZ-17
Lab Code: R2211441-007

Service Request: R2211441
Date Collected: 11/30/22 09:50
Date Received: 11/30/22 14:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
o-Xylene	0.20 U	5.0	0.20	1	12/07/22 13:45	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	12/07/22 13:45	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	12/07/22 13:45	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	12/07/22 13:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	12/07/22 13:45	
Dibromofluoromethane	100	80 - 116	12/07/22 13:45	
Toluene-d8	100	87 - 121	12/07/22 13:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Service Request: R2211441
Date Collected: 11/30/22 10:30
Date Received: 11/30/22 14:30

Sample Name: GZ-22D
Lab Code: R2211441-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,2,3-Trichloropropane	0.26 U	5.0	0.26	1	12/08/22 16:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	12/08/22 16:08	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	12/08/22 16:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	12/08/22 16:08	
2-Butanone (MEK)	0.78 U	10	0.78	1	12/08/22 16:08	
2-Hexanone	0.20 U	10	0.20	1	12/08/22 16:08	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	12/08/22 16:08	
Acetone	5.0 U	10	5.0	1	12/08/22 16:08	
Benzene	1.5 J	5.0	0.20	1	12/08/22 16:08	
Bromochloromethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
Bromodichloromethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
Bromoform	0.25 U	5.0	0.25	1	12/08/22 16:08	
Bromomethane	0.70 U	5.0	0.70	1	12/08/22 16:08	
Carbon Disulfide	0.42 U	10	0.42	1	12/08/22 16:08	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	12/08/22 16:08	
Chlorobenzene	0.20 U	5.0	0.20	1	12/08/22 16:08	
Chloroethane	0.23 U	5.0	0.23	1	12/08/22 16:08	
Chloroform	0.24 U	5.0	0.24	1	12/08/22 16:08	
Chloromethane	0.28 U	5.0	0.28	1	12/08/22 16:08	
Dibromochloromethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
Dibromomethane	0.20 U	5.0	0.20	1	12/08/22 16:08	
Dichloromethane	0.65 U	5.0	0.65	1	12/08/22 16:08	
Ethylbenzene	0.65 J	5.0	0.20	1	12/08/22 16:08	
Iodomethane	4.3 U	10	4.3	1	12/08/22 16:08	
Styrene	0.20 U	5.0	0.20	1	12/08/22 16:08	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	12/08/22 16:08	
Toluene	0.40 J	5.0	0.20	1	12/08/22 16:08	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	12/08/22 16:08	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	12/08/22 16:08	
Vinyl Chloride	0.20 U	5.0	0.20	1	12/08/22 16:08	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	12/08/22 16:08	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	12/08/22 16:08	
m,p-Xylenes	0.22 J	5.0	0.20	1	12/08/22 16:08	

ALS Group USA, Corp.
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Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Sample Name: GZ-22D
Lab Code: R2211441-009

Service Request: R2211441
Date Collected: 11/30/22 10:30
Date Received: 11/30/22 14:30

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
o-Xylene	0.20 U	5.0	0.20	1	12/08/22 16:08	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	12/08/22 16:08	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	12/08/22 16:08	
trans-1,4-Dichloro-2-butene	0.78 U	5.0	0.78	1	12/08/22 16:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	12/08/22 16:08	
Dibromofluoromethane	98	80 - 116	12/08/22 16:08	
Toluene-d8	98	87 - 121	12/08/22 16:08	



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-001				Collected		Received		Matrix		
MW-27S				11/30/22 0940		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Total	ug/L	P	80 J	30	100	1	12/09/22 18:37	RPAES06_788199	411234	
Antimony, Total	ug/L	P	7 U	7	60	1	12/09/22 18:37	RPAES06_788199	411234	
Arsenic, Total	ug/L	P	6 U	6	10	1	12/09/22 18:37	RPAES06_788199	411234	
Barium, Total	ug/L	P	11 J	3	20	1	12/09/22 18:37	RPAES06_788199	411234	
Beryllium, Total	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 18:37	RPAES06_788199	411234	
Boron, Total	ug/L	P	780	20	200	1	12/09/22 18:37	RPAES06_788199	411234	
Cadmium, Total	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 18:37	RPAES06_788199	411234	
Calcium, Total	ug/L	P	343000	3000	10000	10	12/12/22 18:27	RPAES06_788351	411234	
Chromium, Total	ug/L	P	2 U	2	10	1	12/09/22 18:37	RPAES06_788199	411234	
Cobalt, Total	ug/L	P	0.9 U	0.9	50	1	12/09/22 18:37	RPAES06_788199	411234	
Copper, Total	ug/L	P	4 U	4	20	1	12/09/22 18:37	RPAES06_788199	411234	
Iron, Total	ug/L	P	1230	70	100	1	12/09/22 18:37	RPAES06_788199	411234	
Lead, Total	ug/L	P	3 U	3	50	1	12/09/22 18:37	RPAES06_788199	411234	
Magnesium, Total	ug/L	P	196000	30	1000	1	12/09/22 18:37	RPAES06_788199	411234	
Manganese, Total	ug/L	P	82	4	10	1	12/09/22 18:37	RPAES06_788199	411234	
Mercury, Total	ug/L	CV	0.08 U	0.08	0.20	1	12/08/22 15:10	RCVAA02_787869	411152	
Nickel, Total	ug/L	P	3 U	3	40	1	12/09/22 18:37	RPAES06_788199	411234	
Potassium, Total	ug/L	P	27400	400	2000	1	12/09/22 18:37	RPAES06_788199	411234	
Selenium, Total	ug/L	P	7 U	7	10	1	12/09/22 18:37	RPAES06_788199	411234	
Silver, Total	ug/L	P	0.6 U	0.6	10	1	12/09/22 18:37	RPAES06_788199	411234	
Sodium, Total	ug/L	P	192000	2000	10000	10	12/12/22 18:27	RPAES06_788351	411234	
Thallium, Total	ug/L	P	70 U	70	100	10	12/12/22 18:27	RPAES06_788351	411234	
Vanadium, Total	ug/L	P	0.7 U	0.7	50	1	12/09/22 18:37	RPAES06_788199	411234	
Zinc, Total	ug/L	P	5 J	3	20	1	12/09/22 18:37	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-002				Collected		Received		Matrix		
MW-27S Diss				11/30/22 0940		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Dissolved	ug/L	P	30 U	30	100	1	12/09/22 18:40	RPAES06_788199	411234	
Antimony, Dissolved	ug/L	P	7 U	7	60	1	12/09/22 18:40	RPAES06_788199	411234	
Arsenic, Dissolved	ug/L	P	6 U	6	10	1	12/09/22 18:40	RPAES06_788199	411234	
Barium, Dissolved	ug/L	P	3 U	3	20	1	12/09/22 18:40	RPAES06_788199	411234	
Beryllium, Dissolved	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 18:40	RPAES06_788199	411234	
Boron, Dissolved	ug/L	P	800	20	200	1	12/09/22 18:40	RPAES06_788199	411234	
Cadmium, Dissolved	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 18:40	RPAES06_788199	411234	
Calcium, Dissolved	ug/L	P	346000	3000	10000	10	12/12/22 18:30	RPAES06_788351	411234	
Chromium, Dissolved	ug/L	P	2 U	2	10	1	12/09/22 18:40	RPAES06_788199	411234	
Cobalt, Dissolved	ug/L	P	0.9 U	0.9	50	1	12/09/22 18:40	RPAES06_788199	411234	
Copper, Dissolved	ug/L	P	4 U	4	20	1	12/09/22 18:40	RPAES06_788199	411234	
Iron, Dissolved	ug/L	P	70 U	70	100	1	12/09/22 18:40	RPAES06_788199	411234	
Lead, Dissolved	ug/L	P	3 U	3	50	1	12/09/22 18:40	RPAES06_788199	411234	
Magnesium, Dissolved	ug/L	P	202000	30	1000	1	12/09/22 18:40	RPAES06_788199	411234	
Manganese, Dissolved	ug/L	P	74	4	10	1	12/09/22 18:40	RPAES06_788199	411234	
Mercury, Dissolved	ug/L	CV	0.08 U	0.08	0.20	1	12/14/22 13:18	RCVAA02_788497	411469	
Nickel, Dissolved	ug/L	P	3 U	3	40	1	12/09/22 18:40	RPAES06_788199	411234	
Potassium, Dissolved	ug/L	P	28200	400	2000	1	12/09/22 18:40	RPAES06_788199	411234	
Selenium, Dissolved	ug/L	P	7 U	7	10	1	12/09/22 18:40	RPAES06_788199	411234	
Silver, Dissolved	ug/L	P	0.6 U	0.6	10	1	12/09/22 18:40	RPAES06_788199	411234	
Sodium, Dissolved	ug/L	P	195000	2000	10000	10	12/12/22 18:30	RPAES06_788351	411234	
Thallium, Dissolved	ug/L	P	7 U	7	10	1	12/09/22 18:40	RPAES06_788199	411234	
Vanadium, Dissolved	ug/L	P	0.7 U	0.7	50	1	12/09/22 18:40	RPAES06_788199	411234	
Zinc, Dissolved	ug/L	P	3 U	3	20	1	12/09/22 18:40	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-003				Collected		Received		Matrix		
MW-27DD				11/30/22 0930		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Total	ug/L	P	830	30	100	1	12/09/22 18:44	RPAES06_788199	411234	
Antimony, Total	ug/L	P	7 U	7	60	1	12/09/22 18:44	RPAES06_788199	411234	
Arsenic, Total	ug/L	P	9 J	6	10	1	12/09/22 18:44	RPAES06_788199	411234	
Barium, Total	ug/L	P	115	3	20	1	12/09/22 18:44	RPAES06_788199	411234	
Beryllium, Total	ug/L	P	0.2 J	0.2	3.0	1	12/09/22 18:44	RPAES06_788199	411234	
Boron, Total	ug/L	P	3590	20	200	1	12/09/22 18:44	RPAES06_788199	411234	
Cadmium, Total	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 18:44	RPAES06_788199	411234	
Calcium, Total	ug/L	P	6900000	50000	200000	200	12/12/22 18:33	RPAES06_788351	411234	
Chromium, Total	ug/L	P	4 J	2	10	1	12/09/22 18:44	RPAES06_788199	411234	
Cobalt, Total	ug/L	P	0.9 U	0.9	50	1	12/09/22 18:44	RPAES06_788199	411234	
Copper, Total	ug/L	P	4 U	4	20	1	12/09/22 18:44	RPAES06_788199	411234	
Iron, Total	ug/L	P	400	70	100	1	12/09/22 18:44	RPAES06_788199	411234	
Lead, Total	ug/L	P	4 J	3	50	1	12/09/22 18:44	RPAES06_788199	411234	
Magnesium, Total	ug/L	P	3870000	600	20000	20	12/09/22 20:09	RPAES06_788199	411234	
Manganese, Total	ug/L	P	735	4	10	1	12/09/22 18:44	RPAES06_788199	411234	
Mercury, Total	ug/L	CV	0.08 U	0.08	0.20	1	12/08/22 15:16	RCVAA02_787869	411152	
Nickel, Total	ug/L	P	4 J	3	40	1	12/09/22 18:44	RPAES06_788199	411234	
Potassium, Total	ug/L	P	496000	8000	40000	20	12/09/22 20:09	RPAES06_788199	411234	
Selenium, Total	ug/L	P	7 U	7	10	1	12/09/22 18:44	RPAES06_788199	411234	
Silver, Total	ug/L	P	0.6 U	0.6	10	1	12/09/22 18:44	RPAES06_788199	411234	
Sodium, Total	ug/L	P	32400000	30000	200000	200	12/12/22 18:33	RPAES06_788351	411234	
Thallium, Total	ug/L	P	139	7	10	1	12/09/22 18:44	RPAES06_788199	411234	
Vanadium, Total	ug/L	P	0.7 U	0.7	50	1	12/09/22 18:44	RPAES06_788199	411234	
Zinc, Total	ug/L	P	12 J	3	20	1	12/09/22 18:44	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-004				Collected		Received		Matrix		
MW-27DD Diss				11/30/22 0930		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Dissolved	ug/L	P	30 U	30	100	1	12/09/22 18:47	RPAES06_788199	411234	
Antimony, Dissolved	ug/L	P	7 U	7	60	1	12/09/22 18:47	RPAES06_788199	411234	
Arsenic, Dissolved	ug/L	P	6 U	6	10	1	12/09/22 18:47	RPAES06_788199	411234	
Barium, Dissolved	ug/L	P	109	3	20	1	12/09/22 18:47	RPAES06_788199	411234	
Beryllium, Dissolved	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 18:47	RPAES06_788199	411234	
Boron, Dissolved	ug/L	P	3640	20	200	1	12/09/22 18:47	RPAES06_788199	411234	
Cadmium, Dissolved	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 18:47	RPAES06_788199	411234	
Calcium, Dissolved	ug/L	P	6810000	50000	200000	200	12/12/22 18:36	RPAES06_788351	411234	
Chromium, Dissolved	ug/L	P	2 U	2	10	1	12/09/22 18:47	RPAES06_788199	411234	
Cobalt, Dissolved	ug/L	P	0.9 U	0.9	50	1	12/09/22 18:47	RPAES06_788199	411234	
Copper, Dissolved	ug/L	P	4 U	4	20	1	12/09/22 18:47	RPAES06_788199	411234	
Iron, Dissolved	ug/L	P	70 U	70	100	1	12/09/22 18:47	RPAES06_788199	411234	
Lead, Dissolved	ug/L	P	3 U	3	50	1	12/09/22 18:47	RPAES06_788199	411234	
Magnesium, Dissolved	ug/L	P	3950000	600	20000	20	12/09/22 20:12	RPAES06_788199	411234	
Manganese, Dissolved	ug/L	P	722	4	10	1	12/09/22 18:47	RPAES06_788199	411234	
Mercury, Dissolved	ug/L	CV	0.08 U	0.08	0.20	1	12/14/22 13:20	RCVAA02_788497	411469	
Nickel, Dissolved	ug/L	P	3 U	3	40	1	12/09/22 18:47	RPAES06_788199	411234	
Potassium, Dissolved	ug/L	P	509000	8000	40000	20	12/09/22 20:12	RPAES06_788199	411234	
Selenium, Dissolved	ug/L	P	7 U	7	10	1	12/09/22 18:47	RPAES06_788199	411234	
Silver, Dissolved	ug/L	P	0.6 U	0.6	10	1	12/09/22 18:47	RPAES06_788199	411234	
Sodium, Dissolved	ug/L	P	32000000	30000	200000	200	12/12/22 18:36	RPAES06_788351	411234	
Thallium, Dissolved	ug/L	P	131	7	10	1	12/09/22 18:47	RPAES06_788199	411234	
Vanadium, Dissolved	ug/L	P	0.7 U	0.7	50	1	12/09/22 18:47	RPAES06_788199	411234	
Zinc, Dissolved	ug/L	P	3 U	3	20	1	12/09/22 18:47	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-005				Collected		Received		Matrix		
SUMP				11/30/22 0940		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Total	ug/L	P	70 J	30	100	1	12/09/22 18:50	RPAES06_788199	411234	
Antimony, Total	ug/L	P	7 U	7	60	1	12/09/22 18:50	RPAES06_788199	411234	
Arsenic, Total	ug/L	P	6 U	6	10	1	12/09/22 18:50	RPAES06_788199	411234	
Barium, Total	ug/L	P	23	3	20	1	12/09/22 18:50	RPAES06_788199	411234	
Beryllium, Total	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 18:50	RPAES06_788199	411234	
Boron, Total	ug/L	P	150 J	20	200	1	12/09/22 18:50	RPAES06_788199	411234	
Cadmium, Total	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 18:50	RPAES06_788199	411234	
Calcium, Total	ug/L	P	129000	300	1000	1	12/09/22 18:50	RPAES06_788199	411234	
Chromium, Total	ug/L	P	2 U	2	10	1	12/09/22 18:50	RPAES06_788199	411234	
Cobalt, Total	ug/L	P	0.9 U	0.9	50	1	12/09/22 18:50	RPAES06_788199	411234	
Copper, Total	ug/L	P	4 U	4	20	1	12/09/22 18:50	RPAES06_788199	411234	
Iron, Total	ug/L	P	80 J	70	100	1	12/09/22 18:50	RPAES06_788199	411234	
Lead, Total	ug/L	P	3 U	3	50	1	12/09/22 18:50	RPAES06_788199	411234	
Magnesium, Total	ug/L	P	42900	30	1000	1	12/09/22 18:50	RPAES06_788199	411234	
Manganese, Total	ug/L	P	12	4	10	1	12/09/22 18:50	RPAES06_788199	411234	
Mercury, Total	ug/L	CV	0.08 U	0.08	0.20	1	12/08/22 15:18	RCVAA02_787869	411152	
Nickel, Total	ug/L	P	3 U	3	40	1	12/09/22 18:50	RPAES06_788199	411234	
Potassium, Total	ug/L	P	7800	400	2000	1	12/09/22 18:50	RPAES06_788199	411234	
Selenium, Total	ug/L	P	7 U	7	10	1	12/09/22 18:50	RPAES06_788199	411234	
Silver, Total	ug/L	P	0.6 U	0.6	10	1	12/09/22 18:50	RPAES06_788199	411234	
Sodium, Total	ug/L	P	55100	200	1000	1	12/12/22 18:39	RPAES06_788351	411234	
Thallium, Total	ug/L	P	7 U	7	10	1	12/09/22 18:50	RPAES06_788199	411234	
Vanadium, Total	ug/L	P	0.7 J	0.7	50	1	12/09/22 18:50	RPAES06_788199	411234	
Zinc, Total	ug/L	P	4 J	3	20	1	12/09/22 18:50	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-006				Collected		Received		Matrix		
SUMP Diss				11/30/22 0940		11/30/22 1430		Water		
Analyte	Units	MC	Result	Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
Aluminum, Dissolved	ug/L	P	30	U	30	100	1	12/09/22 18:53	RPAES06_788199	411234
Antimony, Dissolved	ug/L	P	7	U	7	60	1	12/09/22 18:53	RPAES06_788199	411234
Arsenic, Dissolved	ug/L	P	6	U	6	10	1	12/09/22 18:53	RPAES06_788199	411234
Barium, Dissolved	ug/L	P	22		3	20	1	12/09/22 18:53	RPAES06_788199	411234
Beryllium, Dissolved	ug/L	P	0.2	U	0.2	3.0	1	12/09/22 18:53	RPAES06_788199	411234
Boron, Dissolved	ug/L	P	20	U	20	200	1	12/09/22 18:53	RPAES06_788199	411234
Cadmium, Dissolved	ug/L	P	0.4	U	0.4	5.0	1	12/09/22 18:53	RPAES06_788199	411234
Calcium, Dissolved	ug/L	P	126000		300	1000	1	12/09/22 18:53	RPAES06_788199	411234
Chromium, Dissolved	ug/L	P	2	U	2	10	1	12/09/22 18:53	RPAES06_788199	411234
Cobalt, Dissolved	ug/L	P	0.9	U	0.9	50	1	12/09/22 18:53	RPAES06_788199	411234
Copper, Dissolved	ug/L	P	4	U	4	20	1	12/09/22 18:53	RPAES06_788199	411234
Iron, Dissolved	ug/L	P	70	U	70	100	1	12/09/22 18:53	RPAES06_788199	411234
Lead, Dissolved	ug/L	P	3	U	3	50	1	12/09/22 18:53	RPAES06_788199	411234
Magnesium, Dissolved	ug/L	P	42000		30	1000	1	12/09/22 18:53	RPAES06_788199	411234
Manganese, Dissolved	ug/L	P	4	U	4	10	1	12/09/22 18:53	RPAES06_788199	411234
Mercury, Dissolved	ug/L	CV	0.08	U	0.08	0.20	1	12/14/22 13:22	RCVAA02_788497	411469
Nickel, Dissolved	ug/L	P	3	U	3	40	1	12/09/22 18:53	RPAES06_788199	411234
Potassium, Dissolved	ug/L	P	7500		400	2000	1	12/09/22 18:53	RPAES06_788199	411234
Selenium, Dissolved	ug/L	P	7	U	7	10	1	12/09/22 18:53	RPAES06_788199	411234
Silver, Dissolved	ug/L	P	0.6	U	0.6	10	1	12/09/22 18:53	RPAES06_788199	411234
Sodium, Dissolved	ug/L	P	54300		200	1000	1	12/12/22 18:42	RPAES06_788351	411234
Thallium, Dissolved	ug/L	P	7	U	7	10	1	12/09/22 18:53	RPAES06_788199	411234
Vanadium, Dissolved	ug/L	P	0.7	U	0.7	50	1	12/09/22 18:53	RPAES06_788199	411234
Zinc, Dissolved	ug/L	P	3	U	3	20	1	12/09/22 18:53	RPAES06_788199	411234

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-007				Collected		Received		Matrix		
GZ-17				11/30/22 0950		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Total	ug/L	P	190	30	100	1	12/09/22 19:03	RPAES06_788199	411234	
Antimony, Total	ug/L	P	7 J	7	60	1	12/09/22 19:03	RPAES06_788199	411234	
Arsenic, Total	ug/L	P	6 U	6	10	1	12/09/22 19:03	RPAES06_788199	411234	
Barium, Total	ug/L	P	21	3	20	1	12/09/22 19:03	RPAES06_788199	411234	
Beryllium, Total	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 19:03	RPAES06_788199	411234	
Boron, Total	ug/L	P	1180	20	200	1	12/09/22 19:03	RPAES06_788199	411234	
Cadmium, Total	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 19:03	RPAES06_788199	411234	
Calcium, Total	ug/L	P	544000	3000	10000	10	12/12/22 18:51	RPAES06_788351	411234	
Chromium, Total	ug/L	P	2 U	2	10	1	12/09/22 19:03	RPAES06_788199	411234	
Cobalt, Total	ug/L	P	0.9 U	0.9	50	1	12/09/22 19:03	RPAES06_788199	411234	
Copper, Total	ug/L	P	4 U	4	20	1	12/09/22 19:03	RPAES06_788199	411234	
Iron, Total	ug/L	P	430	70	100	1	12/09/22 19:03	RPAES06_788199	411234	
Lead, Total	ug/L	P	3 J	3	50	1	12/09/22 19:03	RPAES06_788199	411234	
Magnesium, Total	ug/L	P	249000	30	1000	1	12/09/22 19:03	RPAES06_788199	411234	
Manganese, Total	ug/L	P	86	4	10	1	12/09/22 19:03	RPAES06_788199	411234	
Mercury, Total	ug/L	CV	0.08 U	0.08	0.20	1	12/08/22 15:20	RCVAA02_787869	411152	
Nickel, Total	ug/L	P	3 U	3	40	1	12/09/22 19:03	RPAES06_788199	411234	
Potassium, Total	ug/L	P	40400	400	2000	1	12/09/22 19:03	RPAES06_788199	411234	
Selenium, Total	ug/L	P	7 U	7	10	1	12/09/22 19:03	RPAES06_788199	411234	
Silver, Total	ug/L	P	0.6 U	0.6	10	1	12/09/22 19:03	RPAES06_788199	411234	
Sodium, Total	ug/L	P	607000	2000	10000	10	12/12/22 18:51	RPAES06_788351	411234	
Thallium, Total	ug/L	P	7 U	7	10	1	12/09/22 19:03	RPAES06_788199	411234	
Vanadium, Total	ug/L	P	0.7 U	0.7	50	1	12/09/22 19:03	RPAES06_788199	411234	
Zinc, Total	ug/L	P	14 J	3	20	1	12/09/22 19:03	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-008				Collected		Received		Matrix		
GZ-17 Diss				11/30/22 0950		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Dissolved	ug/L	P	30 U	30	100	1	12/09/22 19:06	RPAES06_788199	411234	
Antimony, Dissolved	ug/L	P	7 U	7	60	1	12/09/22 19:06	RPAES06_788199	411234	
Arsenic, Dissolved	ug/L	P	6 U	6	10	1	12/09/22 19:06	RPAES06_788199	411234	
Barium, Dissolved	ug/L	P	3 U	3	20	1	12/09/22 19:06	RPAES06_788199	411234	
Beryllium, Dissolved	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 19:06	RPAES06_788199	411234	
Boron, Dissolved	ug/L	P	1170	20	200	1	12/09/22 19:06	RPAES06_788199	411234	
Cadmium, Dissolved	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 19:06	RPAES06_788199	411234	
Calcium, Dissolved	ug/L	P	540000	3000	10000	10	12/12/22 18:54	RPAES06_788351	411234	
Chromium, Dissolved	ug/L	P	2 U	2	10	1	12/09/22 19:06	RPAES06_788199	411234	
Cobalt, Dissolved	ug/L	P	0.9 U	0.9	50	1	12/09/22 19:06	RPAES06_788199	411234	
Copper, Dissolved	ug/L	P	4 U	4	20	1	12/09/22 19:06	RPAES06_788199	411234	
Iron, Dissolved	ug/L	P	70 U	70	100	1	12/09/22 19:06	RPAES06_788199	411234	
Lead, Dissolved	ug/L	P	3 U	3	50	1	12/09/22 19:06	RPAES06_788199	411234	
Magnesium, Dissolved	ug/L	P	236000	30	1000	1	12/09/22 19:06	RPAES06_788199	411234	
Manganese, Dissolved	ug/L	P	43	4	10	1	12/09/22 19:06	RPAES06_788199	411234	
Mercury, Dissolved	ug/L	CV	0.08 U	0.08	0.20	1	12/14/22 13:24	RCVAA02_788497	411469	
Nickel, Dissolved	ug/L	P	3 U	3	40	1	12/09/22 19:06	RPAES06_788199	411234	
Potassium, Dissolved	ug/L	P	39700	400	2000	1	12/09/22 19:06	RPAES06_788199	411234	
Selenium, Dissolved	ug/L	P	7 U	7	10	1	12/09/22 19:06	RPAES06_788199	411234	
Silver, Dissolved	ug/L	P	0.6 U	0.6	10	1	12/09/22 19:06	RPAES06_788199	411234	
Sodium, Dissolved	ug/L	P	631000	2000	10000	10	12/12/22 18:54	RPAES06_788351	411234	
Thallium, Dissolved	ug/L	P	7 U	7	10	1	12/09/22 19:06	RPAES06_788199	411234	
Vanadium, Dissolved	ug/L	P	0.7 U	0.7	50	1	12/09/22 19:06	RPAES06_788199	411234	
Zinc, Dissolved	ug/L	P	3 U	3	20	1	12/09/22 19:06	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-009				Collected		Received		Matrix	
GZ-22D				11/30/22 1030		11/30/22 1430		Water	
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
Aluminum, Total	ug/L	P	1060	30	100	1	12/09/22 19:09	RPAES06_788199	411234
Antimony, Total	ug/L	P	7 U	7	60	1	12/09/22 19:09	RPAES06_788199	411234
Arsenic, Total	ug/L	P	6 U	6	10	1	12/09/22 19:09	RPAES06_788199	411234
Barium, Total	ug/L	P	37	3	20	1	12/09/22 19:09	RPAES06_788199	411234
Beryllium, Total	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 19:09	RPAES06_788199	411234
Boron, Total	ug/L	P	5290	20	200	1	12/09/22 19:09	RPAES06_788199	411234
Cadmium, Total	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 19:09	RPAES06_788199	411234
Calcium, Total	ug/L	P	1150000	3000	10000	10	12/12/22 18:58	RPAES06_788351	411234
Chromium, Total	ug/L	P	2 U	2	10	1	12/09/22 19:09	RPAES06_788199	411234
Cobalt, Total	ug/L	P	0.9 U	0.9	50	1	12/09/22 19:09	RPAES06_788199	411234
Copper, Total	ug/L	P	4 U	4	20	1	12/09/22 19:09	RPAES06_788199	411234
Iron, Total	ug/L	P	9100	70	100	1	12/09/22 19:09	RPAES06_788199	411234
Lead, Total	ug/L	P	40 J	3	50	1	12/09/22 19:09	RPAES06_788199	411234
Magnesium, Total	ug/L	P	759000	300	10000	10	12/12/22 18:58	RPAES06_788351	411234
Manganese, Total	ug/L	P	255	4	10	1	12/09/22 19:09	RPAES06_788199	411234
Mercury, Total	ug/L	CV	0.08 U	0.08	0.20	1	12/08/22 15:22	RCVAA02_787869	411152
Nickel, Total	ug/L	P	4 J	3	40	1	12/09/22 19:09	RPAES06_788199	411234
Potassium, Total	ug/L	P	165000	4000	20000	10	12/12/22 18:58	RPAES06_788351	411234
Selenium, Total	ug/L	P	7 U	7	10	1	12/09/22 19:09	RPAES06_788199	411234
Silver, Total	ug/L	P	0.6 U	0.6	10	1	12/09/22 19:09	RPAES06_788199	411234
Sodium, Total	ug/L	P	10100000	20000	100000	100	12/12/22 19:04	RPAES06_788351	411234
Thallium, Total	ug/L	P	70 U	70	100	10	12/12/22 18:58	RPAES06_788351	411234
Vanadium, Total	ug/L	P	2 J	0.7	50	1	12/09/22 19:09	RPAES06_788199	411234
Zinc, Total	ug/L	P	16 J	3	20	1	12/09/22 19:09	RPAES06_788199	411234

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C

R2211441-010				Collected		Received		Matrix		
GZ-22D Diss				11/30/22 1030		11/30/22 1430		Water		
Analyte	Units	MC	Result Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch	
Aluminum, Dissolved	ug/L	P	30 U	30	100	1	12/09/22 19:12	RPAES06_788199	411234	
Antimony, Dissolved	ug/L	P	7 U	7	60	1	12/09/22 19:12	RPAES06_788199	411234	
Arsenic, Dissolved	ug/L	P	6 U	6	10	1	12/09/22 19:12	RPAES06_788199	411234	
Barium, Dissolved	ug/L	P	32	3	20	1	12/09/22 19:12	RPAES06_788199	411234	
Beryllium, Dissolved	ug/L	P	0.2 U	0.2	3.0	1	12/09/22 19:12	RPAES06_788199	411234	
Boron, Dissolved	ug/L	P	5210	20	200	1	12/09/22 19:12	RPAES06_788199	411234	
Cadmium, Dissolved	ug/L	P	0.4 U	0.4	5.0	1	12/09/22 19:12	RPAES06_788199	411234	
Calcium, Dissolved	ug/L	P	1190000	3000	10000	10	12/12/22 19:01	RPAES06_788351	411234	
Chromium, Dissolved	ug/L	P	2 U	2	10	1	12/09/22 19:12	RPAES06_788199	411234	
Cobalt, Dissolved	ug/L	P	0.9 U	0.9	50	1	12/09/22 19:12	RPAES06_788199	411234	
Copper, Dissolved	ug/L	P	4 U	4	20	1	12/09/22 19:12	RPAES06_788199	411234	
Iron, Dissolved	ug/L	P	2920	70	100	1	12/09/22 19:12	RPAES06_788199	411234	
Lead, Dissolved	ug/L	P	3 U	3	50	1	12/09/22 19:12	RPAES06_788199	411234	
Magnesium, Dissolved	ug/L	P	787000	300	10000	10	12/12/22 19:01	RPAES06_788351	411234	
Manganese, Dissolved	ug/L	P	231	4	10	1	12/09/22 19:12	RPAES06_788199	411234	
Nickel, Dissolved	ug/L	P	3 U	3	40	1	12/09/22 19:12	RPAES06_788199	411234	
Potassium, Dissolved	ug/L	P	171000	4000	20000	10	12/12/22 19:01	RPAES06_788351	411234	
Selenium, Dissolved	ug/L	P	7 U	7	10	1	12/09/22 19:12	RPAES06_788199	411234	
Silver, Dissolved	ug/L	P	0.6 U	0.6	10	1	12/09/22 19:12	RPAES06_788199	411234	
Sodium, Dissolved	ug/L	P	10400000	20000	100000	100	12/12/22 19:07	RPAES06_788351	411234	
Thallium, Dissolved	ug/L	P	70 U	70	100	10	12/12/22 19:01	RPAES06_788351	411234	
Vanadium, Dissolved	ug/L	P	0.7 U	0.7	50	1	12/09/22 19:12	RPAES06_788199	411234	
Zinc, Dissolved	ug/L	P	3 U	3	20	1	12/09/22 19:12	RPAES06_788199	411234	

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-MB1								Matrix		
Method Blank								Water		
Analyte	Units	MC	Result	Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
Aluminum, Dissolved	ug/L	P	30	U	30	100	1	12/09/22 18:25	RPAES06_788199	411234
Aluminum, Total	ug/L	P	30	U	30	100	1	12/09/22 18:25	RPAES06_788199	411234
Antimony, Dissolved	ug/L	P	7	U	7	60	1	12/09/22 18:25	RPAES06_788199	411234
Antimony, Total	ug/L	P	7	U	7	60	1	12/09/22 18:25	RPAES06_788199	411234
Arsenic, Dissolved	ug/L	P	6	U	6	10	1	12/09/22 18:25	RPAES06_788199	411234
Arsenic, Total	ug/L	P	6	U	6	10	1	12/09/22 18:25	RPAES06_788199	411234
Barium, Dissolved	ug/L	P	3	U	3	20	1	12/09/22 18:25	RPAES06_788199	411234
Barium, Total	ug/L	P	3	U	3	20	1	12/09/22 18:25	RPAES06_788199	411234
Beryllium, Dissolved	ug/L	P	0.2	U	0.2	3.0	1	12/09/22 18:25	RPAES06_788199	411234
Beryllium, Total	ug/L	P	0.2	U	0.2	3.0	1	12/09/22 18:25	RPAES06_788199	411234
Boron, Dissolved	ug/L	P	20	U	20	200	1	12/09/22 18:25	RPAES06_788199	411234
Boron, Total	ug/L	P	20	U	20	200	1	12/09/22 18:25	RPAES06_788199	411234
Cadmium, Dissolved	ug/L	P	0.4	U	0.4	5.0	1	12/09/22 18:25	RPAES06_788199	411234
Cadmium, Total	ug/L	P	0.4	U	0.4	5.0	1	12/09/22 18:25	RPAES06_788199	411234
Calcium, Dissolved	ug/L	P	300	U	300	1000	1	12/09/22 18:25	RPAES06_788199	411234
Calcium, Total	ug/L	P	300	U	300	1000	1	12/09/22 18:25	RPAES06_788199	411234
Chromium, Dissolved	ug/L	P	2	U	2	10	1	12/09/22 18:25	RPAES06_788199	411234
Chromium, Total	ug/L	P	2	U	2	10	1	12/09/22 18:25	RPAES06_788199	411234
Cobalt, Dissolved	ug/L	P	0.9	U	0.9	50	1	12/09/22 18:25	RPAES06_788199	411234
Cobalt, Total	ug/L	P	0.9	U	0.9	50	1	12/09/22 18:25	RPAES06_788199	411234
Copper, Dissolved	ug/L	P	4	U	4	20	1	12/09/22 18:25	RPAES06_788199	411234
Copper, Total	ug/L	P	4	U	4	20	1	12/09/22 18:25	RPAES06_788199	411234
Iron, Dissolved	ug/L	P	70	U	70	100	1	12/09/22 18:25	RPAES06_788199	411234
Iron, Total	ug/L	P	70	U	70	100	1	12/09/22 18:25	RPAES06_788199	411234
Lead, Dissolved	ug/L	P	3	U	3	50	1	12/09/22 18:25	RPAES06_788199	411234
Lead, Total	ug/L	P	3	U	3	50	1	12/09/22 18:25	RPAES06_788199	411234
Magnesium, Dissolved	ug/L	P	30	U	30	1000	1	12/09/22 18:25	RPAES06_788199	411234
Magnesium, Total	ug/L	P	30	U	30	1000	1	12/09/22 18:25	RPAES06_788199	411234
Manganese, Dissolved	ug/L	P	4	U	4	10	1	12/09/22 18:25	RPAES06_788199	411234
Manganese, Total	ug/L	P	4	U	4	10	1	12/09/22 18:25	RPAES06_788199	411234
Mercury, Dissolved	ug/L	CV	0.08	U	0.08	0.20	1	12/14/22 12:35	RCVAA02_788497	411469
Mercury, Total	ug/L	CV	0.08	U	0.08	0.20	1	12/08/22 14:36	RCVAA02_787869	411152
Nickel, Dissolved	ug/L	P	3	U	3	40	1	12/09/22 18:25	RPAES06_788199	411234

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-MB1								Matrix		
Method Blank								Water		
Analyte	Units	MC	Result	Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
Nickel, Total	ug/L	P	3	U	3	40	1	12/09/22 18:25	RPAES06_788199	411234
Potassium, Dissolved	ug/L	P	400	U	400	2000	1	12/09/22 18:25	RPAES06_788199	411234
Potassium, Total	ug/L	P	400	U	400	2000	1	12/09/22 18:25	RPAES06_788199	411234
Selenium, Dissolved	ug/L	P	7	U	7	10	1	12/09/22 18:25	RPAES06_788199	411234
Selenium, Total	ug/L	P	7	U	7	10	1	12/09/22 18:25	RPAES06_788199	411234
Silver, Dissolved	ug/L	P	0.6	U	0.6	10	1	12/09/22 18:25	RPAES06_788199	411234
Silver, Total	ug/L	P	0.6	U	0.6	10	1	12/09/22 18:25	RPAES06_788199	411234
Sodium, Dissolved	ug/L	P	200	U	200	1000	1	12/12/22 18:14	RPAES06_788351	411234
Sodium, Total	ug/L	P	200	U	200	1000	1	12/12/22 18:14	RPAES06_788351	411234
Thallium, Dissolved	ug/L	P	7	U	7	10	1	12/09/22 18:25	RPAES06_788199	411234
Thallium, Total	ug/L	P	7	U	7	10	1	12/09/22 18:25	RPAES06_788199	411234
Vanadium, Dissolved	ug/L	P	0.7	U	0.7	50	1	12/09/22 18:25	RPAES06_788199	411234
Vanadium, Total	ug/L	P	0.7	U	0.7	50	1	12/09/22 18:25	RPAES06_788199	411234
Zinc, Dissolved	ug/L	P	3	U	3	20	1	12/09/22 18:25	RPAES06_788199	411234
Zinc, Total	ug/L	P	3	U	3	20	1	12/09/22 18:25	RPAES06_788199	411234

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS



Form 1 - Inorganic Analysis Data Sheet

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C, EPA 7470A

R2211441-MB2								Matrix		
Method Blank								Water		
Analyte	Units	MC	Result	Q	DL	LOQ	DF	Analysis Date	Run ID	PrepBatch
Aluminum, Dissolved	ug/L	P	30	U	30	100	1	12/09/22 18:28	RPAES06_788199	411234
Antimony, Dissolved	ug/L	P	7	U	7	60	1	12/09/22 18:28	RPAES06_788199	411234
Arsenic, Dissolved	ug/L	P	6	U	6	10	1	12/09/22 18:28	RPAES06_788199	411234
Barium, Dissolved	ug/L	P	3	U	3	20	1	12/09/22 18:28	RPAES06_788199	411234
Beryllium, Dissolved	ug/L	P	0.2	U	0.2	3.0	1	12/09/22 18:28	RPAES06_788199	411234
Boron, Dissolved	ug/L	P	20	U	20	200	1	12/09/22 18:28	RPAES06_788199	411234
Cadmium, Dissolved	ug/L	P	0.4	U	0.4	5.0	1	12/09/22 18:28	RPAES06_788199	411234
Calcium, Dissolved	ug/L	P	300	U	300	1000	1	12/09/22 18:28	RPAES06_788199	411234
Chromium, Dissolved	ug/L	P	2	U	2	10	1	12/09/22 18:28	RPAES06_788199	411234
Cobalt, Dissolved	ug/L	P	0.9	U	0.9	50	1	12/09/22 18:28	RPAES06_788199	411234
Copper, Dissolved	ug/L	P	4	U	4	20	1	12/09/22 18:28	RPAES06_788199	411234
Iron, Dissolved	ug/L	P	70	U	70	100	1	12/09/22 18:28	RPAES06_788199	411234
Lead, Dissolved	ug/L	P	3	U	3	50	1	12/09/22 18:28	RPAES06_788199	411234
Magnesium, Dissolved	ug/L	P	30	U	30	1000	1	12/09/22 18:28	RPAES06_788199	411234
Manganese, Dissolved	ug/L	P	4	U	4	10	1	12/09/22 18:28	RPAES06_788199	411234
Mercury, Dissolved	ug/L	CV	0.08	U	0.08	0.20	1	12/14/22 12:37	RCVAA02_788497	411469
Nickel, Dissolved	ug/L	P	3	U	3	40	1	12/09/22 18:28	RPAES06_788199	411234
Potassium, Dissolved	ug/L	P	400	U	400	2000	1	12/09/22 18:28	RPAES06_788199	411234
Selenium, Dissolved	ug/L	P	7	U	7	10	1	12/09/22 18:28	RPAES06_788199	411234
Silver, Dissolved	ug/L	P	0.6	U	0.6	10	1	12/09/22 18:28	RPAES06_788199	411234
Sodium, Dissolved	ug/L	P	200	U	200	1000	1	12/12/22 18:17	RPAES06_788351	411234
Thallium, Dissolved	ug/L	P	7	U	7	10	1	12/09/22 18:28	RPAES06_788199	411234
Vanadium, Dissolved	ug/L	P	0.7	U	0.7	50	1	12/09/22 18:28	RPAES06_788199	411234
Zinc, Dissolved	ug/L	P	3	U	3	20	1	12/09/22 18:28	RPAES06_788199	411234

MC - Method Class CV - Cold Vapor/AA P - ICP/AES MS - ICP/MS

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water
Sample Name: MW-27S
Lab Code: R2211441-001

Service Request: R2211441
Date Collected: 11/30/22 09:40
Date Received: 11/30/22 14:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	326	mg/L	2.0	1.8	1	12/10/22 16:30	NA	
Ammonia as Nitrogen, undistilled	350.1	0.597	mg/L	0.050	0.026	1	12/19/22 15:17	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	-	1	12/01/22 08:14	NA	
Bromide	300.0	1.8	mg/L	1.0	0.4	10	12/01/22 08:23	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.6	mg/L	1.0	0.5	1	12/11/22 01:16	NA	
Chemical Oxygen Demand, Total	410.4	3.8 U	mg/L	5.0	3.8	1	12/20/22 17:10	NA	
Chloride	300.0	158	mg/L	20	5	100	12/01/22 08:29	NA	
Chromium, Hexavalent	7196A	0.003 U	mg/L	0.010	0.003	1	11/30/22 15:16	NA	
Color, Apparent	SM 2120 B-2001(2011)	100	ColorUnits	10	-	10	12/01/22 12:40	NA	
Cyanide, Total	Kelada-01	0.040 U	mg/L	0.050	0.040	10	12/08/22 04:45	NA	
Hardness, Total as CaCO ₃	SM 2340 C-1997(2011)	1750	mg/L	100	40	1	12/09/22 09:50	NA	
Nitrate as Nitrogen	300.0	0.2 U	mg/L	1.0	0.2	10	12/01/22 08:23	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.84	mg/L	0.20	0.15	1	12/14/22 13:59	12/13/22	
pH of Color Analysis	SM 2120 B-2001(2011)	6.81	pH Units	-	-	10	12/01/22 12:11	NA	
Phenolics, Total Recoverable	420.4	0.0029 U	mg/L	0.0050	0.0029	1	12/12/22 17:15	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	2650	mg/L	22	20	1	12/02/22 10:30	NA	
Sulfate	300.0	1320	mg/L	40	8	200	12/05/22 07:05	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water
Sample Name: MW-27DD
Lab Code: R2211441-003

Service Request: R2211441
Date Collected: 11/30/22 09:30
Date Received: 11/30/22 14:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	93.0	mg/L	2.0	1.8	1	12/10/22 16:37	NA	
Ammonia as Nitrogen, undistilled	350.1	37.1	mg/L	5.0	2.6	100	12/19/22 16:25	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	22.7	mg/L	2.0	-	1	12/01/22 08:17	NA	
Bromide	300.0	801	mg/L	30	11	300	12/05/22 07:22	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	3.3	mg/L	1.0	0.5	1	12/11/22 01:27	NA	
Chemical Oxygen Demand, Total	410.4	5310	mg/L	50	38	10	12/20/22 17:10	NA	
Chloride	300.0	72100	mg/L	4000	900	20000	12/05/22 07:28	NA	
Chromium, Hexavalent	7196A	0.003 U	mg/L	0.010	0.003	1	11/30/22 15:17	NA	
Color, Apparent	SM 2120 B-2001(2011)	150	ColorUnits	10	-	10	12/01/22 12:40	NA	
Cyanide, Total	Kelada-01	0.040 U	mg/L	0.050	0.040	10	12/08/22 04:49	NA	
Hardness, Total as CaCO ₃	SM 2340 C-1997(2011)	34400	mg/L	800	260	1	12/09/22 09:50	NA	
Nitrate as Nitrogen	300.0	2 U	mg/L	10	2	100	12/01/22 08:40	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	9.59	mg/L	0.80	0.60	4	12/14/22 13:59	12/13/22	
pH of Color Analysis	SM 2120 B-2001(2011)	6.53	pH Units	-	-	10	12/01/22 12:11	NA	
Phenolics, Total Recoverable	420.4	0.15 U	mg/L	0.25	0.15	50	12/12/22 14:27	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	132000	mg/L	2000	1800	1	12/02/22 10:30	NA	
Sulfate	300.0	1540	mg/L	60	12	300	12/05/22 07:22	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water
Sample Name: SUMP
Lab Code: R2211441-005

Service Request: R2211441
Date Collected: 11/30/22 09:40
Date Received: 11/30/22 14:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	176	mg/L	2.0	1.8	1	12/10/22 16:43	NA	
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	12/19/22 15:22	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	-	1	12/01/22 08:13	NA	
Bromide	300.0	0.4 U	mg/L	1.0	0.4	10	12/01/22 08:46	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	2.8	mg/L	1.0	0.5	1	12/11/22 01:38	NA	
Chemical Oxygen Demand, Total	410.4	5.9	mg/L	5.0	3.8	1	12/20/22 17:10	NA	
Chloride	300.0	60.0	mg/L	2.0	0.5	10	12/01/22 08:46	NA	
Chromium, Hexavalent	7196A	0.003 U	mg/L	0.010	0.003	1	11/30/22 15:17	NA	
Color, Apparent	SM 2120 B-2001(2011)	80.0	ColorUnits	5.0	-	5	12/01/22 12:40	NA	
Cyanide, Total	Kelada-01	0.0040 U	mg/L	0.0050	0.0040	1	12/08/22 04:53	NA	
Hardness, Total as CaCO3	SM 2340 C-1997(2011)	625	mg/L	50	16	1	12/09/22 09:50	NA	
Nitrate as Nitrogen	300.0	0.2 J	mg/L	1.0	0.2	10	12/01/22 08:46	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.35	mg/L	0.20	0.15	1	12/14/22 14:02	12/13/22	
pH of Color Analysis	SM 2120 B-2001(2011)	8.03	pH Units	-	-	5	12/01/22 12:11	NA	
Phenolics, Total Recoverable	420.4	0.0039 J	mg/L	0.0050	0.0029	1	12/12/22 17:59	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	812	mg/L	10	9	1	12/02/22 10:30	NA	
Sulfate	300.0	323	mg/L	20	4	100	12/05/22 07:34	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water
Sample Name: GZ-17
Lab Code: R2211441-007

Service Request: R2211441
Date Collected: 11/30/22 09:50
Date Received: 11/30/22 14:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	299	mg/L	2.0	1.8	1	12/10/22 16:50	NA	
Ammonia as Nitrogen, undistilled	350.1	2.70	mg/L	0.25	0.13	5	12/19/22 15:23	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	10.4	mg/L	2.0	-	1	12/01/22 08:16	NA	
Bromide	300.0	8.7	mg/L	1.0	0.4	10	12/01/22 09:26	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	3.5	mg/L	1.0	0.5	1	12/11/22 01:49	NA	
Chemical Oxygen Demand, Total	410.4	30.4	mg/L	5.0	3.8	1	12/20/22 17:10	NA	
Chloride	300.0	931	mg/L	20	5	100	12/01/22 09:03	NA	
Chromium, Hexavalent	7196A	0.003 U	mg/L	0.010	0.003	1	11/30/22 15:18	NA	
Color, Apparent	SM 2120 B-2001(2011)	130	ColorUnits	10	-	10	12/01/22 12:40	NA	
Cyanide, Total	Kelada-01	0.0040 U	mg/L	0.0050	0.0040	1	12/08/22 05:13	NA	
Hardness, Total as CaCO ₃	SM 2340 C-1997(2011)	2600	mg/L	200	70	1	12/09/22 09:50	NA	
Nitrate as Nitrogen	300.0	0.2 U	mg/L	1.0	0.2	10	12/01/22 09:26	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	3.71	mg/L	0.20	0.15	1	12/14/22 14:03	12/13/22	
pH of Color Analysis	SM 2120 B-2001(2011)	7.07	pH Units	-	-	10	12/01/22 12:11	NA	
Phenolics, Total Recoverable	420.4	0.0029 U	mg/L	0.0050	0.0029	1	12/12/22 18:11	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	4550	mg/L	29	26	1	12/02/22 10:30	NA	
Sulfate	300.0	1870	mg/L	80	16	400	12/05/22 07:39	NA	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Service Request: R2211441
Date Analyzed: 12/07/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2215257-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	19.5	20.0	98	76-129
1,1,1-Trichloroethane (TCA)	8260C	19.9	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	19.2	20.0	96	78-126
1,1,2-Trichloroethane	8260C	20.3	20.0	102	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.9	20.0	109	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	21.0	20.0	105	71-118
1,2,3-Trichloropropane	8260C	19.0	20.0	95	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	16.9	20.0	85	55-136
1,2-Dibromoethane	8260C	19.9	20.0	99	82-127
1,2-Dichlorobenzene	8260C	19.8	20.0	99	80-119
1,2-Dichloroethane	8260C	20.9	20.0	104	71-127
1,2-Dichloropropane	8260C	21.1	20.0	105	80-119
1,3-Dichlorobenzene	8260C	20.6	20.0	103	83-121
1,4-Dichlorobenzene	8260C	20.5	20.0	103	79-119
2-Butanone (MEK)	8260C	18.8	20.0	94	61-137
2-Hexanone	8260C	18.6	20.0	93	63-124
4-Methyl-2-pentanone	8260C	19.8	20.0	99	66-124
Acetone	8260C	20.9	20.0	104	40-161
Benzene	8260C	21.1	20.0	106	79-119
Bromochloromethane	8260C	20.4	20.0	102	81-126
Bromodichloromethane	8260C	19.3	20.0	97	81-123
Bromoform	8260C	17.1	20.0	85	65-146
Bromomethane	8260C	19.7	20.0	98	42-166
Carbon Disulfide	8260C	18.4	20.0	92	66-128
Carbon Tetrachloride	8260C	19.6	20.0	98	70-127
Chlorobenzene	8260C	19.3	20.0	96	80-121
Chloroethane	8260C	19.3	20.0	97	62-131
Chloroform	8260C	20.8	20.0	104	79-120
Chloromethane	8260C	31.2	20.0	156 *	65-135
Dibromochloromethane	8260C	19.0	20.0	95	72-128
Dibromomethane	8260C	20.4	20.0	102	80-118
Dichloromethane	8260C	20.1	20.0	101	73-122
Ethylbenzene	8260C	20.8	20.0	104	76-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Service Request: R2211441
Date Analyzed: 12/08/22

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2215392-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260C	20.5	20.0	103	76-129
1,1,1-Trichloroethane (TCA)	8260C	21.2	20.0	106	75-125
1,1,2,2-Tetrachloroethane	8260C	20.8	20.0	104	78-126
1,1,2-Trichloroethane	8260C	21.6	20.0	108	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	22.8	20.0	114	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.3	20.0	112	71-118
1,2,3-Trichloropropane	8260C	19.7	20.0	98	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.5	20.0	87	55-136
1,2-Dibromoethane	8260C	20.5	20.0	102	82-127
1,2-Dichlorobenzene	8260C	20.7	20.0	103	80-119
1,2-Dichloroethane	8260C	22.0	20.0	110	71-127
1,2-Dichloropropane	8260C	22.1	20.0	110	80-119
1,3-Dichlorobenzene	8260C	21.4	20.0	107	83-121
1,4-Dichlorobenzene	8260C	21.2	20.0	106	79-119
2-Butanone (MEK)	8260C	19.3	20.0	96	61-137
2-Hexanone	8260C	19.6	20.0	98	63-124
4-Methyl-2-pentanone	8260C	20.9	20.0	105	66-124
Acetone	8260C	19.2	20.0	96	40-161
Benzene	8260C	22.7	20.0	113	79-119
Bromochloromethane	8260C	21.7	20.0	109	81-126
Bromodichloromethane	8260C	20.7	20.0	103	81-123
Bromoform	8260C	18.4	20.0	92	65-146
Bromomethane	8260C	14.6	20.0	73	42-166
Carbon Disulfide	8260C	20.5	20.0	102	66-128
Carbon Tetrachloride	8260C	21.4	20.0	107	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	20.6	20.0	103	62-131
Chloroform	8260C	21.7	20.0	108	79-120
Chloromethane	8260C	29.4	20.0	147 *	65-135
Dibromochloromethane	8260C	19.7	20.0	99	72-128
Dibromomethane	8260C	21.4	20.0	107	80-118
Dichloromethane	8260C	21.0	20.0	105	73-122
Ethylbenzene	8260C	21.5	20.0	108	76-120

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2211441-MB1

Service Request: R2211441
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	1.8 U	mg/L	2.0	1.8	1	12/10/22 14:55	NA	
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	12/19/22 15:15	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	-	1	12/01/22 14:09	NA	
Bromide	300.0	0.04 U	mg/L	0.10	0.04	1	12/01/22 08:11	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	0.5 U	mg/L	1.0	0.5	1	12/10/22 19:32	NA	
Chemical Oxygen Demand, Total	410.4	3.8 U	mg/L	5.0	3.8	1	12/20/22 17:10	NA	
Chloride	300.0	0.05 U	mg/L	0.20	0.05	1	12/01/22 08:11	NA	
Chromium, Hexavalent	7196A	0.003 U	mg/L	0.010	0.003	1	11/30/22 14:37	NA	
Color, Apparent	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	-	1	12/01/22 12:40	NA	
Cyanide, Total	Kelada-01	0.0040 U	mg/L	0.0050	0.0040	1	12/08/22 03:09	NA	
Hardness, Total as CaCO ₃	SM 2340 C-1997(2011)	0.7 U	mg/L	2.0	0.7	1	12/09/22 09:50	NA	
Nitrate as Nitrogen	300.0	0.02 U	mg/L	0.10	0.02	1	12/01/22 08:11	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.15 U	mg/L	0.20	0.15	1	12/14/22 13:41	12/13/22	
Phenolics, Total Recoverable	420.4	0.0029 U	mg/L	0.0050	0.0029	1	12/12/22 12:43	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	10 U	mg/L	10	9	1	12/02/22 10:30	NA	
Sulfate	300.0	0.04 U	mg/L	0.20	0.04	1	12/05/22 04:23	NA	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914
Sample Matrix: Water

Service Request: R2211441
Date Collected: 11/30/22
Date Received: 11/30/22
Date Analyzed: 12/19/22

Duplicate Matrix Spike Summary
Ammonia as Nitrogen, undistilled

Sample Name: MW-27S
Lab Code: R2211441-001
Analysis Method: 350.1

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R2211441-001MS			Duplicate Matrix Spike R2211441-001DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ammonia as Nitrogen, undistilled	0.597	0.810	0.250	85 *	0.809	0.250	85 *	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914

Service Request:R2211441

Continuing Calibration Blank (CCB) Summary
Chloride

Analysis Method: 300.0

Units:mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	MDL	Result	Q
CCB1	787095	RQ2215108-02	12/01/22 08:11	0.20	0.05	0.05	U
CCB2	787095	RQ2215108-08	12/01/22 09:21	0.20	0.05	0.08	J
CCB3	787095	RQ2215108-12	12/01/22 10:30	0.20	0.05	0.05	U
CCB4	787389	RQ2215340-02	12/05/22 04:23	0.20	0.05	0.05	U
CCB5	787389	RQ2215340-10	12/05/22 07:16	0.20	0.05	0.05	U
CCB6	787389	RQ2215340-12	12/05/22 08:20	0.20	0.05	0.05	U

ALS Group USA, Corp.
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QA/QC Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914

Service Request: R2211441
Date Analyzed: 12/07/22 10:27

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

File ID: I:\ACQUADATA\MSVOA14\Data\120722\V9228.D\

Signal ID: 1

Calibration Date: 9/26/2022

Calibration ID: RC2200105

Analysis Lot: 787440

Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	46.4	0.3384	0.3137	-7.3	NA	±20	Average RF
1,1,1-Trichloroethane (TCA)	50.0	47.3	0.6465	0.6119	-5.4	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.6	1.0002	0.9113	-8.9	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	47.5	0.3053	0.2899	-5.1	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.3	0.7499	0.7397	-1.4	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.4	0.3939	0.3815	-3.1	NA	±20	Average RF
1,2,3-Trichloropropane	50.0	44.1	0.3331	0.2935	-11.9	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	40.5	0.2818	0.2282	-19.0	NA	±20	Average RF
1,2-Dibromoethane	50.0	46.2	0.3666	0.3389	-7.6	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	47.0	1.4784	1.389	-6.0	NA	±20	Average RF
1,2-Dichloroethane	50.0	49.2	0.3862	0.3799	-1.7	NA	±20	Average RF
1,2-Dichloropropane	50.0	49.3	0.3022	0.2979	-1.4	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	48.0	1.4726	1.4122	-4.1	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	48.0	1.5033	1.4436	-4.0	NA	±20	Average RF
2-Butanone (MEK)	50.0	43.4	0.3192	0.2771	-13.2	NA	±20	Average RF
2-Hexanone	50.0	43.3	0.3332	0.2888	-13.3	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	45.5	0.3954	0.3598	-9.0	NA	±20	Average RF
Acetone	50.0	47.5	0.2241	0.2128	-5.1	NA	±20	Average RF
Benzene	50.0	49.2	1.1472	1.1285	-1.6	NA	±20	Average RF
Bromochloromethane	50.0	47.5	0.3369	0.3198	-5.1	NA	±20	Average RF
Bromodichloromethane	50.0	45.8	0.4001	0.3662	-8.5	NA	±20	Average RF
Bromoform	50.0	41.3	0.2788	0.2304	-17.3	NA	±20	Average RF
Bromomethane	50.0	46.0	0.2879	0.2329	NA	-8.0	±20	Quadratic
Carbon Disulfide	50.0	44.4	1.1659	1.0359	-11.1	NA	±20	Average RF
Carbon Tetrachloride	50.0	48.8	0.3602	0.3513	-2.5	NA	±20	Average RF
Chlorobenzene	50.0	47.8	0.9437	0.9024	-4.4	NA	±20	Average RF
Chloroethane	50.0	51.6	0.3177	0.328	3.2	NA	±20	Average RF
Chloroform	50.0	47.3	0.7759	0.7347	-5.3	NA	±20	Average RF
Chloromethane	50.0	67.4	0.4231	0.5072	NA	34.8*	±20	Quadratic
Dibromochloromethane	50.0	44.6	0.3757	0.3351	-10.8	NA	±20	Average RF
Dibromomethane	50.0	47.0	0.2111	0.1985	-6.0	NA	±20	Average RF
Dichloromethane	50.0	46.6	0.4816	0.4491	-6.8	NA	±20	Average RF
Ethylbenzene	50.0	48.1	0.4892	0.4709	-3.7	NA	±20	Average RF
Iodomethane	50.0	51.5	0.5422	0.5584	3.0	NA	±20	Average RF
Styrene	50.0	47.9	1.0259	0.9834	-4.1	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	49.2	0.2713	0.267	-1.6	NA	±20	Average RF
Toluene	50.0	49.3	1.2413	1.2239	-1.4	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.6	0.3222	0.3135	-2.7	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	50.1	0.5967	0.5973	0.1	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: LiRo Group
Project: Niagara County Refuse Disposal District/22-033-2914

Service Request: R2211441
Date Analyzed: 12/08/22 10:57

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

File ID: I:\ACQUDATA\MSVOA14\Data\120822\V9261.D\

Signal ID: 1

Calibration Date: 9/26/2022

Calibration ID: RC2200105

Analysis Lot: 787756

Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1,2-Tetrachloroethane	50.0	48.5	0.3384	0.3285	-2.9	NA	±20	Average RF
1,1,1-Trichloroethane (TCA)	50.0	48.4	0.6465	0.6259	-3.2	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	48.9	1.0002	0.979	-2.1	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	49.0	0.3053	0.2993	-2.0	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.4	0.7499	0.7562	0.8	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	49.1	0.3939	0.3871	-1.7	NA	±20	Average RF
1,2,3-Trichloropropane	50.0	45.7	0.3331	0.3045	-8.6	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	44.3	0.2818	0.2495	-11.4	NA	±20	Average RF
1,2-Dibromoethane	50.0	48.6	0.3666	0.356	-2.9	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	48.5	1.4784	1.4355	-2.9	NA	±20	Average RF
1,2-Dichloroethane	50.0	50.7	0.3862	0.3915	1.4	NA	±20	Average RF
1,2-Dichloropropane	50.0	50.7	0.3022	0.3068	1.5	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	49.6	1.4726	1.4602	-0.8	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	49.2	1.5033	1.4788	-1.6	NA	±20	Average RF
2-Butanone (MEK)	50.0	49.5	0.3192	0.3157	-1.1	NA	±20	Average RF
2-Hexanone	50.0	48.7	0.3332	0.3247	-2.5	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	51.2	0.3954	0.405	2.4	NA	±20	Average RF
Acetone	50.0	44.9	0.2241	0.2013	-10.2	NA	±20	Average RF
Benzene	50.0	50.4	1.1472	1.1553	0.7	NA	±20	Average RF
Bromochloromethane	50.0	48.7	0.3369	0.328	-2.6	NA	±20	Average RF
Bromodichloromethane	50.0	48.4	0.4001	0.3872	-3.2	NA	±20	Average RF
Bromoform	50.0	43.7	0.2788	0.2435	-12.7	NA	±20	Average RF
Bromomethane	50.0	30.2	0.2879	0.1643	NA	-39.6*	±20	Quadratic
Carbon Disulfide	50.0	50.6	1.1659	1.1808	1.3	NA	±20	Average RF
Carbon Tetrachloride	50.0	49.2	0.3602	0.3546	-1.6	NA	±20	Average RF
Chlorobenzene	50.0	49.0	0.9437	0.9243	-2.1	NA	±20	Average RF
Chloroethane	50.0	50.8	0.3177	0.3229	1.6	NA	±20	Average RF
Chloroform	50.0	48.1	0.7759	0.7465	-3.8	NA	±20	Average RF
Chloromethane	50.0	63.0	0.4231	0.4718	NA	26.0*	±20	Quadratic
Dibromochloromethane	50.0	47.0	0.3757	0.3529	-6.1	NA	±20	Average RF
Dibromomethane	50.0	49.6	0.2111	0.2093	-0.9	NA	±20	Average RF
Dichloromethane	50.0	47.3	0.4816	0.456	-5.3	NA	±20	Average RF
Ethylbenzene	50.0	49.2	0.4892	0.4817	-1.5	NA	±20	Average RF
Iodomethane	50.0	48.7	0.5422	0.5285	-2.5	NA	±20	Average RF
Styrene	50.0	49.8	1.0259	1.0225	-0.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	50.1	0.2713	0.2718	0.2	NA	±20	Average RF
Toluene	50.0	51.0	1.2413	1.2665	2.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.8	0.3222	0.3146	-2.4	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	50.3	0.5967	0.5999	0.5	NA	±20	Average RF



Form 2 - Calibration Verifications

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C

RPAES06_788199		ICV			CCV			LLCCV			CCV			CCV			CCV		
Run Date		12/09/22			12/09/22			12/09/22			12/09/22			12/09/22			12/09/22		
Units		15:55:52			17:53:18			17:59:38			18:18:44			18:56:50			19:34:53		
ppm		6DEC09			6DEC09			6DEC09			6DEC09			6DEC09			6DEC09		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Aluminum		10.1	101		10.3	103		0.185	93		10.3	103		10.4	104		10.3	103	
Antimony		4.9	98		4.92	98		0.064	107		4.94	99		4.96	99		4.95	99	
Arsenic		0.999	100		0.99	99		0.0222	111		0.987	99		1.01	101		0.982	98	
Barium		10.2	102		10	100		0.202	101		10.2	102		10.1	101		10.1	101	
Beryllium		0.239	96		0.235	94		0.0049	98		0.237	95		0.238	95		0.235	94	
Boron		2.52	101		2.47	99		0.19	95		2.48	99		2.49	100		2.47	99	
Cadmium		0.498	100		0.494	99		0.01	100		0.499	100		0.5	100		0.496	99	
Calcium		25.4	101		25.2	101		1.02	102		25.4	102		25.6	102		25.3	101	
Chromium		0.515	103		0.517	103		0.0104	104		0.519	104		0.524	105		0.52	104	
Cobalt		2.51	100		2.5	100		0.0492	98		2.52	101		2.53	101		2.51	100	
Copper		1.23	99		1.21	97		0.0233	93		1.23	98		1.23	98		1.22	97	
Iron		5	100		4.92	98		0.103	103		4.97	99		4.98	100		4.94	99	
Lead		0.504	101		0.5	100		0.0117	117		0.508	102		0.509	102		0.505	101	
Magnesium		25.1	101		25	100		1.03	103		25.2	101		25.3	101		25.1	100	
Manganese		0.756	101		0.751	100		0.0157	105		0.754	101		0.76	101		0.755	101	
Nickel		2.09	104		2.06	103		0.0406	102		2.08	104		2.08	104		2.06	103	
Potassium		25	100		24.5	98		1.01	101		24.9	100		24.9	100		24.6	98	
Selenium		0.49	98		0.475	95		0.0117	117		0.474	95		0.476	95		0.47	94	
Silver		0.492	98		0.491	98		0.0094	94		0.496	99		0.497	99		0.493	99	
Thallium		1.01	101		0.997	100		0.0218	109		1	100		1.01	101		0.983	98	
Vanadium		2.52	101		2.49	100		0.0495	99		2.51	101		2.52	101		2.5	100	
Zinc		1.01	101		1	100		0.0192	96		1.01	101		1.02	102		1	100	



Form 2 - Calibration Verifications

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C

RPAES06_788199		CCV			CCV			LLCCV			CCV		
Run Date		12/09/22			12/09/22			12/09/22			12/09/22		
Units		20:03:28			20:32:05			20:38:26			20:47:57		
ppm		6DEC09			6DEC09			6DEC09			6DEC09		
Data File													
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Aluminum		10.2	102		10.1	101		0.186	93		10.1	101	
Antimony		4.9	98		4.86	97		0.0624	104		4.82	96	
Arsenic		0.967	97		0.968	97		0.0199	100		0.951	95	
Barium		9.97	100		9.92	99		0.201	101		9.87	99	
Beryllium		0.233	93		0.232	93		0.0048	96		0.23	92	
Boron		2.51	100		2.45	98		0.198	99		2.41	96	
Cadmium		0.492	98		0.488	98		0.0099	99		0.483	97	
Calcium		25.1	100		24.8	99		1.01	101		24.7	99	
Chromium		0.513	103		0.51	102		0.0103	103		0.505	101	
Cobalt		2.49	100		2.47	99		0.0496	99		2.44	98	
Copper		1.21	97		1.2	96		0.0225	90		1.19	95	
Iron		4.88	98		4.86	97		0.102	102		4.82	96	
Lead		0.498	100		0.496	99		0.0108	108		0.489	98	
Magnesium		24.9	100		24.6	98		1.02	102		24.3	97	
Manganese		0.746	99		0.742	99		0.0156	104		0.733	98	
Nickel		2.04	102		2.03	102		0.041	102		2.01	101	
Potassium		25.2	101		24.5	98		1.15	115		24.2	97	
Selenium		0.462	92		0.467	93		0.0106	106		0.461	92	
Silver		0.488	98		0.485	97		0.009	90		0.482	96	
Thallium		0.995	99		0.99	99		0.0223	112		0.982	98	
Vanadium		2.48	99		2.46	98		0.0487	97		2.44	98	
Zinc		0.995	100		0.991	99		0.019	95		0.98	98	



Form 2 - Calibration Verifications

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C

RPAES06_788351		ICV			LLCCV			CCV			CCV			CCV			CCV		
Units ppm	Run Date	12/12/22			12/12/22			12/12/22			12/12/22			12/12/22			12/12/22		
	Run Time	17:53:10			17:59:20			18:08:35			18:45:40			19:22:42			19:50:31		
	Data File	6DEC12			6DEC12			6DEC12			6DEC12			6DEC12			6DEC12		
Analyte		Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q	Found	%R	Q
Calcium		25.3	101		1.03	103		25.2	101		25.4	102		25.3	101		25.1	100	
Magnesium		25	100		1.04	104		24.9	99		25	100		24.9	100		24.6	98	
Potassium		25	100		0.967	97		24.6	98		24.7	99		24.4	97		24.1	96	
Sodium		25.1	101		1.05	105		25	100		25	100		24.6	98		24.3	97	
Thallium		1	100		0.0163	82		1.01	101		1	100		0.989	99		0.978	98	

RPAES06_788351		LLCCV			CCV														
Units ppm	Run Date	12/12/22			12/12/22														
	Run Time	19:56:42			20:15:19														
	Data File	6DEC12			6DEC12														
Analyte		Found	%R	Q	Found	%R	Q												
Calcium		1.02	102		25.3	101													
Magnesium		1.02	102		24.9	99													
Potassium		0.891	89		24.6	98													
Sodium		1.09	109		24.5	98													
Thallium		0.0218	109		0.99	99													



Form 3 - Blanks

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C

RPAES06_788199			ICB		CCB		CCB		MB788199		MB788199		CCB	
Units			Run Date		Run Date		Run Date		Run Date		Run Date		Run Date	
			Run Time		Run Time		Run Time		Run Time		Run Time		Run Time	
			Data File		Data File		Data File		Data File		Data File		Data File	
			12/09/22		12/09/22		12/09/22		12/09/22		12/09/22		12/09/22	
			15:59		17:56		18:21		18:25		18:28		19:00	
			6DEC09		6DEC09		6DEC09		6DEC09		6DEC09		6DEC09	
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	30	100	100	U	100	U	100	U	100	U	100	U	100	U
Antimony	7	60	60	U	60	U	60	U	60	U	60	U	60	U
Arsenic	6	10	10	U	10	U	10	U	10	U	10	U	10	U
Barium	3	20	20	U	20	U	20	U	20	U	20	U	20	U
Beryllium	0.2	3.0	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
Boron	20	200	200	U	200	U	200	U	200	U	200	U	200	U
Cadmium	0.4	5.0	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Calcium	300	1000	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Chromium	2	10	10	U	10	U	10	U	10	U	10	U	10	U
Cobalt	0.9	50	50	U	50	U	50	U	50	U	50	U	50	U
Copper	4	20	20	U	20	U	20	U	20	U	20	U	20	U
Iron	70	100	100	U	100	U	100	U	100	U	100	U	100	U
Lead	3	50	50	U	50	U	50	U	50	U	50	U	50	U
Magnesium	30	1000	1000	U	1000	U	1000	U	1000	U	1000	U	1000	U
Manganese	4	10	10	U	10	U	10	U	10	U	10	U	10	U
Nickel	3	40	40	U	40	U	40	U	40	U	40	U	40	U
Potassium	400	2000	2000	U	2000	U	2000	U	2000	U	2000	U	2000	U
Selenium	7	10	10	U	10	U	10	U	10	U	10	U	10	U
Silver	0.6	10	10	U	10	U	10	U	10	U	10	J	10	U
Thallium	7	10	10	U	10	U	10	U	10	U	10	U	10	U
Vanadium	0.7	50	50	U	50	U	50	J	50	U	50	U	50	U
Zinc	3	20	20	U	20	U	20	U	20	U	20	U	20	U



Form 3 - Blanks

Client The LiRo Group
Project Niagara County Refuse Disposal District

Workorder
R2211441

Metals by EPA 6010C

RPAES06_788199			CCB		CCB		CCB		CCB		
Units			Run Date Run Time Data File		12/09/22 19:38 6DEC09		12/09/22 20:06 6DEC09		12/09/22 20:35 6DEC09		12/09/22 20:51 6DEC09
Analyte	DL	LOQ	Result	Q	Result	Q	Result	Q	Result	Q	
Aluminum	30	100	100	U	100	U	100	U	100	U	
Antimony	7	60	60	U	60	U	60	U	60	U	
Arsenic	6	10	10	U	10	U	10	U	10	U	
Barium	3	20	20	U	20	U	20	U	20	U	
Beryllium	0.2	3.0	3.0	U	3.0	U	3.0	U	3.0	U	
Boron	20	200	200	U	200	J	200	U	200	U	
Cadmium	0.4	5.0	5.0	U	5.0	U	5.0	U	5.0	U	
Calcium	300	1000	1000	U	1000	U	1000	U	1000	U	
Chromium	2	10	10	U	10	U	10	U	10	U	
Cobalt	0.9	50	50	U	50	U	50	U	50	U	
Copper	4	20	20	U	20	U	20	U	20	U	
Iron	70	100	100	U	100	U	100	U	100	U	
Lead	3	50	50	U	50	U	50	U	50	U	
Magnesium	30	1000	1000	U	1000	U	1000	U	1000	U	
Manganese	4	10	10	U	10	U	10	U	10	U	
Nickel	3	40	40	U	40	U	40	U	40	U	
Potassium	400	2000	2000	U	2000	J	2000	U	2000	U	
Selenium	7	10	10	U	10	U	10	U	10	U	
Silver	0.6	10	10	U	10	U	10	U	10	U	
Thallium	7	10	10	U	10	U	10	U	10	U	
Vanadium	0.7	50	50	J	50	U	50	U	50	U	
Zinc	3	20	20	U	20	U	20	U	20	U	



ATTACHMENT C
Permitted Facility Annual Report

PERMITTED C&D DEBRIS HANDLING AND RECOVERY FACILITY ANNUAL REPORT



Department of
Environmental
Conservation

(If you need assistance filling out this form please email swmfannualreport@dec.ny.gov or call 518-402-8678.)

Complete and submit this form by March 1, 2023.

This annual report is for the year of operation from January 01, 2022 to December 31, 2022

SECTION 1 – GENERAL INFORMATION

FACILITY INFORMATION			
FACILITY NAME:			
FACILITY LOCATION ADDRESS:	FACILITY CITY:	STATE:	ZIP CODE:
FACILITY TOWN:	FACILITY COUNTY:	FACILITY PHONE NUMBER:	
FACILITY NYS PLANNING UNIT: (A list of NYS Planning Units can be found at the end of this report).			NYSDEC REGION #:
360 PERMIT #: (Refer to DEC Permit)	DATE ISSUED:	DATE EXPIRES:	NYS DEC ACTIVITY CODE OR REGISTRATION NUMBER: (Refer to DEC Registration)
FACILITY CONTACT:	☐ public ☐ private	CONTACT PHONE NUMBER:	CONTACT FAX NUMBER:
CONTACT EMAIL ADDRESS:			
OWNER INFORMATION			
OWNER NAME:	OWNER PHONE NUMBER:	OWNER FAX NUMBER:	
OWNER ADDRESS:	OWNER CITY:	STATE:	ZIP CODE:
OWNER CONTACT:	OWNER CONTACT EMAIL ADDRESS:		
OPERATOR INFORMATION			
OPERATOR NAME: ☐ same as owner		☐ public ☐ private	
PREFERENCES			
Preferred address to receive correspondence: ☐ Facility location address ☐ Owner address ☐ Other (provide):			
Preferred email address: ☐ Facility Contact ☐ Owner Contact ☐ Other (provide):			
Preferred individual to receive correspondence: ☐ Facility Contact ☐ Owner Contact ☐ Other (provide):			

Did you operate in 2022? ☐ Yes; Complete this form.

☐ No; Complete and submit Sections 1 and 11. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, also complete the "Inactive Solid Waste Management Facility or Activity Notification Form" located at: <http://www.dec.ny.gov/chemical/52706.html>.

SECTION 2 - SOLID WASTE RECEIVED

Please provide the tonnages of waste received. This includes all wastes received at your facility regardless of their destination after processing.
DO NOT REPORT IN CUBIC YARDS!

Specify the methods used to measure the quantities received and the percentages measured by each method:

_____ % Scale Weight

_____ % Estimated

_____ % Truck Count

_____ % Other (Specify: _____)

Type of Waste	January (tons)	February (tons)	March (tons)	April (tons)	May (tons)	June (tons)	July (tons)
Asphalt Millings							
Asphalt Pavement							
Asphalt Roofing Shingles							
Brick							
Concrete							
Construction & Demolition (C&D) Debris							
Gravel							
Gypsum Wallboard							
Limited-Use Fill							
Other Masonry Materials							
Restricted-Use Fill							
Rock							
Roofing Paper							
Sand							
Soil							
Unadulterated Wood							
Other (specify)							
Total Tons Received							

If the solid waste type is not listed, use one of the "Other" lines and fill in the name of the waste. If more "Other" lines are needed, cross out an unused type and fill in the other solid waste name. If still more "Other" lines are needed, attach another copy of this page, cross out an unused type, and fill in the other solid waste name.

SECTION 2 – SOLID WASTE RECEIVED (continued)

Type of Waste	Tip Fee (\$/Ton)	August (tons)	September (tons)	October (tons)	November (tons)	December (tons)	Total Year (tons)	Daily Avg. (tons)
Asphalt Millings								
Asphalt Pavement								
Asphalt Roofing Shingles								
Brick								
Concrete								
Construction & Demolition (C&D) Debris								
Gravel								
Gypsum Wallboard								
Limited-Use Fill								
Other Masonry Materials								
Restricted-Use Fill								
Rock								
Roofing Paper								
Sand								
Soil								
Unadulterated Wood								
Other (specify)								
Total Tons Received								

If the solid waste type is not listed, use one of the "Other" lines and fill in the name of the waste. If more "Other" lines are needed, cross out an unused type and fill in the other solid waste name. If still more "Other" lines are needed, attach another copy of this page, cross out an unused type, and fill in the other solid waste name.

SECTION 3 – SERVICE AREA OF SOLID WASTE RECEIVED

Please identify where the material is coming from. The total tons received reported below should equal the total tons received in Section 2 (Solid Waste Received). **DO NOT REPORT IN CUBIC YARDS!**

- If the waste **WAS** received from another solid waste management facility, please write in the name *and* address of the facility along with the appropriate state, county and planning unit/municipality.
- If the waste **WAS NOT** received from another solid waste management facility, please write in “**Direct Haul**” along with the appropriate state, county, and planning unit/municipality where the waste was generated.

Specify transport method, list type of material(s) and percentages of total material transported by each:

_____ % Road: Waste Type(s): _____ _____ % Rail: Waste Type(s): _____
 _____ % Water: Waste Type(s): _____ _____ % Other (specify: _____): Waste Type(s): _____

SERVICE AREA OF SOLID WASTE RECEIVED (where the waste is coming from)					
TYPE OF WASTE	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR “Direct Haul”	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Asphalt Millings					
Asphalt Pavement					
Asphalt Roofing Shingles					
Brick					

SERVICE AREA OF SOLID WASTE RECEIVED (where the waste is coming from)					
TYPE OF WASTE	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR <i>"Direct Haul"</i>	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Concrete					
Construction & Demolition (C&D) Debris					
Gravel					
Gypsum Wallboard					
Limited-Use Fill					
Other Masonry Materials					
Restricted-Use Fill					
Rock					

SERVICE AREA OF SOLID WASTE RECEIVED (where the waste is coming from)					
TYPE OF WASTE	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR <i>"Direct Haul"</i>	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Roofing Paper					
Sand					
Soil					
Unadulterated Wood					
Other (specify)					
TOTAL RECEIVED (tons): _____					

If the solid waste type is not listed, use one of the "Other" lines and fill in the name of the waste. If more "Other" lines are needed, cross out an unused type and fill in the other solid waste name. If still more "Other" lines are needed, attach another copy of this page, cross out an unused type, and fill in the other solid waste name.

SECTION 4 - TRANSFER OR DISPOSAL DESTINATION

Please identify destination of waste. Please only include waste sent off-site for disposal or further transfer prior to disposal. Exclude Recyclable Material amounts reported in Section 5. **DO NOT REPORT IN CUBIC YARDS!**

- If the waste is being sent to another facility for transfer or processing prior to disposal (e.g. Transfer station or C&D debris processing facility), please identify name, address, corresponding State/Country, County/Province, and Destination Planning Unit of the transfer destination and the amount of waste transferred in the “*Amount to Transfer Destination*” column.
- If the waste is being sent to a landfill or combustor, please identify the name, address, corresponding State/Country, County/Province, and Destination Planning Unit of the disposal destination and the amount of waste being sent for disposal in the “*Amount to Disposal Destination*” column.
- If the waste is being sent to a landfill to be utilized as Alternative Operating Cover (AOC), please identify the name, address, corresponding State/Country, County/Province, and Destination Planning Unit of the landfill and the amount of waste being sent for use as AOC in the “*Amount Used as AOC*” column.

Specify transport method, list type of material(s) and percentages of total material transported by each:

_____ % Road: Waste Type(s): _____ _____ % Rail: Waste Type(s): _____

_____ % Water: Waste Type(s): _____ _____ % Other (specify: _____): Waste Type (s): _____

TRANSFER OR DISPOSAL DESTINATION								
TYPE OF WASTE	SOLID WASTE MANAGEMENT FACILITY TO WHICH IT WAS SENT (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	AMOUNT TO TRANSFER DESTINATION (TONS)	AMOUNT TO DISPOSAL DESTINATION (TONS)	AMOUNT USED AS AOC (TONS)	TOTAL YEAR (TONS)
Construction & Demolition (C&D) Debris								
Residue								
Other (specify)								
TOTAL SENT (tons): _____								

If the waste type is not listed, use one of the “Other” lines and fill in the name of the material. If more “Other” lines are needed, cross out an unused type and fill in the other waste name. If still more “Other” lines are needed, attached another copy of this page, cross out an unused type, and fill in the other waste name.

SECTION 5 - MATERIAL RECOVERED FOR REUSE/RECYCLING

Please identify destination of recovered materials. Indicate the location of use/name of the destination, address, corresponding State/Country, County/Province, Destination Planning Unit/Municipality and the amount of material recovered. **DO NOT REPORT IN CUBIC YARDS!**

Specify transport method, list type of material(s) and percentages of total material transported by each:

_____ % Road: Material(s): _____

_____ % Rail: Material(s): _____

_____ % Water: Material(s): _____

_____ % Other (specify: _____): Material(s): _____

Loads of material that are to be used under a pre-determined or case-specific BUD do not need to be reported. The only exception is for specific material types (RCA, asphalt millings, etc.) distributed in excess of 10,000 tons (360.12(c)(5)). In this case, the total tonnage should be reported, but not the individual destinations.

MATERIAL RECOVERED FOR REUSE/RECYCLING					
MATERIAL RECOVERED	LOCATION OF USE/DESTINATION (Name & Address) Please note that "direct haul", "various", and "various locations" are not acceptable responses for the address of the location of use.	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Asphalt Millings					
Asphalt Pavement					
Asphalt Roofing Shingles					
Brick					
Bulk Metal (from C&D Debris)					

MATERIAL RECOVERED FOR REUSE/RECYCLING					
MATERIAL RECOVERED	LOCATION OF USE/DESTINATION (Name & Address) Please note that "direct haul", "various", and "various locations" are not acceptable responses for the address of the location of use.	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Concrete					
Gravel					
Gypsum Wallboard					
Limited-Use Fill					
Other Masonry Materials					
Restricted-Use Fill					
Rock					
Roofing Paper					

MATERIAL RECOVERED FOR REUSE/RECYCLING					
MATERIAL RECOVERED	LOCATION OF USE/DESTINATION (Name & Address) Please note that "direct haul", "various", and "various locations" are not acceptable responses for the address of the location of use.	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Sand					
Soil					
Unadulterated Wood					
Other (specify)					
TOTAL RECOVERED (tons): _____					

If the material type is not listed, use one of the "Other" lines and fill in the name of the material. If more "Other" lines are needed, cross out an unused type and fill in the other materials name. If still more "Other" lines are needed, attached another copy of this page, cross out an unused type, and fill in the other materials name.

SECTION 6 – UNAUTHORIZED SOLID WASTE

Has unauthorized solid waste been received at the facility during the reporting period?

☐ Yes ☐ No If yes, give information below for each incident (attach additional sheets if necessary):

Date Received	Type Received	Date Disposed	Disposal Method & Location

SECTION 7 - COST ESTIMATES AND FINANCIAL ASSURANCE DOCUMENTS

Are there required cost estimates and financial assurance documents for closure?

☐ Yes ☐ No If yes, attach additional sheets reflecting annual adjustments for inflation and any changes to the Closure Plan?

SECTION 8 – PROBLEMS

Were any problems encountered during the reporting period (e.g., specific occurrences which have led to changes in facility procedures)?

☐ Yes ☐ No If yes, attach additional sheets identifying each problem and the methods for resolution of the problem.

SECTION 9 – CHANGES

Were there any changes from approved reports, plans, specifications, and permit conditions?

☐ Yes ☐ No If yes, attach additional sheets identifying changes with a justification for each change.

SECTION 10 - PERMIT/CONSENT ORDER REPORTING REQUIREMENTS

Are there any additional permit/consent order reporting requirements not covered by the previous sections of this form?

☐ Yes ☐ No If yes, attach additional sheets identifying the reporting requirements with their respective responses.

SECTION 11 - SIGNATURE AND DATE BY OWNER OR OPERATOR

Owner or Operator must sign, date and submit one completed form to the appropriate Regional Office (See attachment for Regional Office addresses, email addresses and Materials Management Contacts).

The Owner or Operator must also submit one copy by email, fax or mail to:

**New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Solid Waste Management
625 Broadway
Albany, New York 12233-7260
Fax 518-402-9041
Email address: SWMFannualreport@dec.ny.gov**

I certify, under penalty of law, that the data and other information identified in this report have been prepared under my direction and supervision in compliance with a system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.

_____ Signature	_____ Date
_____ Name (Print or Type)	_____ Title (Print or Type)
_____ Email (Print or Type)	
_____ Address	_____ City
_____ State and Zip	(____)____-____ Phone Number

ATTACHMENTS: ____ YES ____ NO
(Please check appropriate line)

* This page for reference only. Please do not return with submittal. *

**Division of Materials Management
New York State Department of Environmental Conservation
Albany, New York 12233-7260**

PERMITTED CONSTRUCTION & DEMOLITION DEBRIS HANDLING AND RECOVERY FACILITY

A Construction and Demolition Debris Handling & Recovery Facility (CDDHRF) is a processing facility that receives and processes construction and demolition debris for recovery, transfer or disposal. Further information and a listing of the registered and regulated construction and demolition debris processing facilities are available online at <http://www.dec.ny.gov/chemical/23686.html>.

This annual report for is specifically for permitted CDDHRFs. If your facility is a registered CDDHRF, you need to submit a Registered Construction & Demolition Debris Handling and Recovery Facility Annual Report.

If your facility is authorized to operate a construction and demolition debris landfill, you need to submit a Construction & Demolition Debris Landfill Annual Report. If your facility is authorized to process construction and demolition debris and operate a construction and demolition debris landfill you must submit both annual reports.

If your facility is authorized to operate as a transfer facility, you need to submit a Transfer Facility Annual Report instead of a CDDHRF Annual Report. If your facility is authorized to operate as a transfer facility and as a CDDHRF you must submit both annual reports.

If your facility is authorized to operate as a recyclables handling and recovery facility, you must submit a Recyclables Handling and Recovery Facility Annual Report instead of a CDDHRF Facility Annual Report. If your facility is authorized to operate as a CDDHRF facility and a recyclables handling & recovery facility you must submit both annual reports.

Forms for all solid waste management facilities can be found at <http://www.dec.ny.gov/chemical/52706.html> and a brief description of each type of facility can be found at <http://www.dec.ny.gov/chemical/8495.html>.

Annual Report

Submit the Annual Report no later than March 1, 2023.

Reporting of the information indicated on this C&D Debris Handling and Recovery Facility Annual Report form is required pursuant to 6 NYCRR Part 360. Failure to provide the required information requested is a violation of Environmental Conservation Law. Timely submission of a properly completed form to the Department's Regional Office that has jurisdiction over your facility and to the Department's Central Office is required to meet the Annual/Quarterly Report requirements of 6 NYCRR Part 360.

Where the Annual Report requirements have been modified, appropriate Sections (as necessary to reflect the modification) must be completed and submitted with a copy of the Department's written notification which allows the modification.

Entries on the report forms should be either typewritten or neatly printed in black ink. Attach additional sheets if space on the pages is insufficient or supplementary information is required or appropriate.

Solid Waste Volume to Weight Conversion Factors

Material	Conversion Factor (tons/yd³)
Concrete and Other Masonry Materials	2.02
Brick	1.35
Asphalt Pavement and Asphalt Millings	1.95
Asphalt Roofing Shingles and Roofing Paper	0.37
Gypsum Wallboard	0.23
Wood	.085
Soil	1.12
Sand	1.35
Gravel	1.48
Rock	2.23
Restricted-use Fill	1.12
Limited-use Fill	1.12
Concrete, Asphalt, Rock, Brick and Soil (CARBS) mixture	1.6
Mixed C&D Debris (with minimal CARBS)	0.25
Crushed Aggregate	1.5

* This page for reference only. Please do not return with submittal. *

Useful Definitions

SECTION 3 – SERVICE AREA OF MATERIAL RECEIVED

Identify the facility's service area by indicating the type of material received, the Solid Waste Management facility (SWMF) from which it was received (or Direct Haul), the corresponding State/Country, the County/Province, and the NYS Planning Unit from which waste was received. **Refer to the list of NYS Planning Units that can be found at the end of this report.** The total amount reported here should equal the total amount reported in Section 2 (Material Received). **DO NOT REPORT IN CUBIC YARDS!**

Additional Service Area Guidance:

1) Direct hauled from the generator of the material. In the case where the material is hauled to your facility from the generator (i.e. hauled from residences, job sites, commercial establishments, etc.), **“Direct Haul”** is the appropriate response in Column 2 under “Service Area.” Please report the tonnage by material type and identify the state, county and planning unit where it was generated;

2) Sent to your C&D Debris Handling and Recovery Facility from another solid waste management facility. Material may be sent to your C&D Debris Handling and Recovery Facility from another solid waste management facility. In this case, please report the tonnage by material type from each sending solid waste management facility, as well as the sending facility's name, address, county, and the planning unit where the sending facility is located.

New York State Planning Units & Regions

When completing the annual report, please use the Planning Unit listed below that corresponds with the municipality and county. **Note: The Planning Unit is not the DEC Region.**

DEC Region	Planning Unit	County	Municipality
1	Glen Cove	Nassau	Glen Cove (City)
	Hempstead		Hempstead (Town)
	Long Beach		Long Beach (City)
	North Hempstead Solid Waste Management Authority		North Hempstead (Town), except 8 villages (see below)
	Oyster Bay Solid Waste Disposal District		Oyster Bay (Town), except 16 villages (see below)
	Babylon	Suffolk	Babylon (Town)
	Brookhaven		Brookhaven (Town)
	East Hampton		East Hampton (Town)
	Fishers Island Waste Management District		Fishers Island
	Huntington		Huntington (Town)
	Islip Resource Recovery Agency		Islip (Town)
	Riverhead		Riverhead (Town)
	Shelter Island		Shelter Island (Town)
	Smithtown		Smithtown (Town)
	Southampton		Southampton (Town)
	Southold		Southold (Town), except Fishers Island
2	New York City	Bronx	Bronx
		Kings	Kings (Brooklyn)
		New York	New York (Manhattan)
		Queens	Queens
		Richmond	Richmond (Staten Island)
3	Dutchess County	Dutchess	
	Orange County	Orange	
	Putnam County	Putnam	
	Rockland County Solid Waste Management Authority (RCSWMA)	Rockland	
	Sullivan County	Sullivan	
	Ulster County Resource Recovery Agency (UCRRA)	Ulster	
	Westchester County	Westchester	
4	Colonie	Albany	Cohoes (City)
			Colonie (Town)
			Colonie (Village)
			Menands (Village)
			Watervliet (City)
	Capital Region Solid Waste Management Partnership	Albany	Albany (City)
			Altamont (Village)
			Berne (Town)
			Bethlehem (Town)
			Green Island (Town/Village)
			Guilderland (Town)
			Knox (Town)
			New Scotland (Town)
			Rensselaerville (Town)
			Voorheesville (Village)
			Westerlo (Town)

4		Rensselaer	East Greenbush (Town)
			Rensselaer (City)
	Eastern Rensselaer County Solid Waste Management Authority	Rensselaer	Castleton-on-Hudson (Village)
			Hoosick Falls (Village)
			Nassau (Village)
			Pittstown (Town)
			Schaghticoke (Town/Village)
			Stephentown (Town)
			Valley Falls (Village)
			Columbia County
	Delaware County	Delaware	
	Greene County	Greene	
	Montgomery County	Montgomery	
Otsego County	Otsego		
Schoharie County	Schoharie		
Schenectady County	Schenectady		
5	Clinton County	Clinton	
	Essex County	Essex	
	County of Franklin Solid Waste Management Authority (CFSWMA)	Franklin	
	Fulton County	Fulton	
	Hamilton County	Hamilton	
	Saratoga County	Saratoga	
	Warren County	Warren	
	Washington County	Washington	
6	Development Authority of the North Country (DANC)	Jefferson	
		Lewis	
		St. Lawrence	
	Oneida-Herkimer Solid Waste Authority	Oneida	
		Herkimer	
7	Broome County	Broome	
	Cayuga County	Cayuga	
	Chenango County	Chenango	
	Cortland County	Cortland	
	Madison County	Madison	
	Onondaga County	Onondaga	All municipalities, except Town and Village of Skaneateles (See below)
	Oswego County	Oswego	
	Tioga County	Tioga	
	Tompkins County	Tompkins	
8	Chemung County	Chemung	
	GLOW Region Solid Waste Management Committee	Genesee	
		Livingston	
	Monroe County	Monroe	
	Ontario County	Ontario	
	Orleans County	Orleans	
	Schuyler County	Schuyler	
	Seneca County	Seneca	
	Steuben County	Steuben	
	Wayne County	Wayne	
	Yates County	Yates	
9	Allegany County	Allegany	
	Cattaraugus County	Cattaraugus	
	Chautauqua County	Chautauqua	

9	GLOW Region Solid Waste Management Committee	Wyoming	
	Niagara	Niagara	
	Northeast-Southtowns Solid Waste Management Board (NEST)	Erie	Akron (Village)
			Alden (Town/Village)
			Angola (Village)
			Aurora (Town)
			Blasdell (Village)
			Boston (Town)
			Brant (Town)
			Cheektowaga (Town)
			Clarence (Town)
			Colden (Town)
			Collins (Town)
			Concord (Town)
			Depew (Village)
			East Aurora (Village)
			Eden (Town)
			Elma (Town)
			Evans (Town)
			Farnham (Village)
			Gowanda (Village)
			Hamburg (Town/Village)
			Holland (Town)
			Lackawanna (City)
			Lancaster (Town/Village)
			Marilla (Town)
			Newstead (Town)
			North Collins (Town/Village)
			Orchard Park (Town/Village)
			Sardinia (Town)
			Sloan (Village)
			Springville (Village)
			Wales (Town)
			West Seneca (Town)
	Northwest Communities Solid Waste Management Board (NWCB)	Erie	Amherst (Town)
			Grand Island (Town)
			Kenmore (Village)
			Tonawanda (Town/Village)
			Williamsville (Village)

Municipalities Not Currently Affiliated With a Recognized Planning Unit

DEC Region	County	Non-Member Municipality	
1	Nassau	North Hempstead	Great Neck Estates (Village)
			Great Neck Plaza (Village)
			Mineola (Village)
			New Hyde Park (Village)
			Plandome (Village)
			Plandome Manor (Village)
			Westbury (Village)
			Williston Park (Village)
		Oyster Bay	Bayville (Village)
			Brookville (Village)
			Centre Island (Village)
			Cove Neck (Village)
			Glenwood – Glen Head Garbage District
			Lattington (Village)
			Laurel Hollow (Village)
			Matinecock (Village)
			Mill Neck (Village)
			Muttontown (Village)
			Old Brookville (Village)
			Old Westbury (Village) (portion)
			Oyster Bay Cove (Village)
			Roslyn Harbor (Village) (portion)
			Sea Cliff (Village)
			Upper Brookville (Village)
4	Albany	Coeymans (Town)	
	Rensselaer	Ravena (Village)	
		Berlin (Town)	
		Brunswick (Town)	
		Grafton (Town)	
		Hoosick (Town)	
		Nassau (Town)	
		Petersburg (Town)	
		Poestenkill (Town)	
		North Greenbush (Town)	
		Sand Lake (Town)	
		Schodack (Town)	
		Troy (City)	
	Columbia	Canaan (Town)	
7	Onondaga	Skaneateles (Town/Village)	
9	Erie	Buffalo (City)	

New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Solid Waste Management

MATERIAL MANAGEMENT PROGRAM CONTACTS

CENTRAL OFFICE

Bureau of Solid Waste Management
625 Broadway
Albany, NY 12233-7260
Phone: (518) 402-8678

For Submission of Solid Waste Management Facility Annual Reports only:

Fax: (518) 402-9041

Email: swmfannualreport@dec.ny.gov

REGIONAL OFFICE ADDRESS & LEAD CONTACT PERSON

REGION 1 (Nassau, Suffolk)

Syed Rahman / David Gibb
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790
Phone: (631) 444-0375
SWMFannualreportR1@dec.ny.gov

REGION 2 (Bronx, Kings, New York, Queens, Richmond)

Mahmoud Assi
47-40 21st Street
Long Island City, NY 11101-5407
Phone: (718) 482-4896
SWMFannualreportR2@dec.ny.gov

REGION 3 (Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester)

Lee Reiff
21 South Putt Corners Road
New Paltz, NY 12561
Phone: (845) 256-3134
SWMFannualreportR3@dec.ny.gov

REGION 4 (Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady, Schoharie)

Brian Maglienti
1130 North Westcott Road
Schenectady, NY 12306
Phone: (518) 357-2085
SWMFannualreportR4@dec.ny.gov

REGION 5 (Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren, Washington)

Jessie Sangster
1115 State Route 86, PO Box 296
Ray Brook, NY 12977
Phone: (518) 897-1266
SWMFannualreportR5@dec.ny.gov

REGION 6 (Herkimer, Jefferson, Lewis, Oneida, St. Lawrence)

Gary McCullouch
317 Washington Street
Watertown, NY 13601
Phone: (315) 785-2513
SWMFannualreportR6@dec.ny.gov

REGION 7 (Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga, Tompkins)

Steve Perrigo
615 Erie Boulevard West
Syracuse, NY 13204
Phone: (315) 426-7419
SWMFannualreportR7@dec.ny.gov

REGION 8 (Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne, Yates)

Greg MacLean
6274 East Avon-Lima Road
Avon, NY 14414
Phone: (585) 226-5411
SWMFannualreportR8@dec.ny.gov

REGION 9 (Allegany, Cattaraugus, Chautauqua, Erie, Niagara, Wyoming)

Peter Grasso
700 Delaware Avenue
Buffalo, NY 14209
Phone: (716) 851-7220
SWMFannualreportR9@dec.ny.gov

December 2022



ATTACHMENT D

Inactive Solid Waste Management Facility or Activity Notification Form



**INACTIVE SOLID WASTE MANAGEMENT
FACILITY OR ACTIVITY NOTIFICATION FORM**

FACILITY NAME:																																												
FACILITY ADDRESS:																																												
FACILITY CITY:	STATE:	ZIP CODE:																																										
TYPE OF INACTIVE FACILITY OR ACTIVITY: (Check all applicable boxes)																																												
<table border="0"><tr><td>☐ Anaerobic Digestion – permit</td><td>☐ Landfill – Long Island</td></tr><tr><td>☐ Anaerobic Digestion – registration</td><td>☐ Landfill – Municipal Solid Waste</td></tr><tr><td>☐ C&D Processing – permit</td><td>☐ Mobile Vehicle Crushers</td></tr><tr><td>☐ C&D Processing – registration</td><td>☐ Municipal Waste Combustor</td></tr><tr><td>☐ Composting – Source Separated Organic Waste – permit</td><td>☐ Recyclable Handling & Recovery</td></tr><tr><td>☐ Composting – Source Separated Organic Waste – registration</td><td>☐ Regulated Medical Waste – Radiopharmacy</td></tr><tr><td>☐ Composting – Yard Waste – permit</td><td>☐ Regulated Medical Waste – Onsite Treatment</td></tr><tr><td>☐ Composting – Yard Waste – registration</td><td>☐ Regulated Medical Waste – Commercial Treatment</td></tr><tr><td>☐ Composting/other Processing – Biosolids/other</td><td>☐ Regulated Medical Waste – Transfer Station</td></tr><tr><td>☐ Household Hazardous Waste</td><td>☐ Storage – Biosolids/Septage – permit</td></tr><tr><td>☐ Land Application – Biosolids/Septage/other – permit</td><td>☐ Storage – Nonrecognizable Food Processing Waste</td></tr><tr><td>☐ Land Application – Nonrecognizable Food Processing Waste – registration</td><td>☐ Storage – Septage – registration</td></tr><tr><td>☐ Land Application – Septage - registration</td><td>☐ Transfer Station – permit</td></tr><tr><td>☐ Landfill – Construction & Demolition Debris</td><td>☐ Transfer Station – registration</td></tr><tr><td>☐ Landfill – Industrial/Commercial</td><td>☐ Vehicle Dismantling Facility</td></tr><tr><td>☐ Landfill – Land Clearing Debris</td><td>☐ Waste Tire Storage – Dealer</td></tr><tr><td></td><td>☐ Waste Tire Storage – New Product Manufacturing</td></tr><tr><td></td><td>☐ Waste Tire Storage – Onsite Energy Recovery</td></tr><tr><td></td><td>☐ Waste Tire Storage – permitted</td></tr><tr><td></td><td>☐ Waste Tire Storage – Retreader</td></tr><tr><td></td><td>☐ Other _____</td></tr></table>			☐ Anaerobic Digestion – permit	☐ Landfill – Long Island	☐ Anaerobic Digestion – registration	☐ Landfill – Municipal Solid Waste	☐ C&D Processing – permit	☐ Mobile Vehicle Crushers	☐ C&D Processing – registration	☐ Municipal Waste Combustor	☐ Composting – Source Separated Organic Waste – permit	☐ Recyclable Handling & Recovery	☐ Composting – Source Separated Organic Waste – registration	☐ Regulated Medical Waste – Radiopharmacy	☐ Composting – Yard Waste – permit	☐ Regulated Medical Waste – Onsite Treatment	☐ Composting – Yard Waste – registration	☐ Regulated Medical Waste – Commercial Treatment	☐ Composting/other Processing – Biosolids/other	☐ Regulated Medical Waste – Transfer Station	☐ Household Hazardous Waste	☐ Storage – Biosolids/Septage – permit	☐ Land Application – Biosolids/Septage/other – permit	☐ Storage – Nonrecognizable Food Processing Waste	☐ Land Application – Nonrecognizable Food Processing Waste – registration	☐ Storage – Septage – registration	☐ Land Application – Septage - registration	☐ Transfer Station – permit	☐ Landfill – Construction & Demolition Debris	☐ Transfer Station – registration	☐ Landfill – Industrial/Commercial	☐ Vehicle Dismantling Facility	☐ Landfill – Land Clearing Debris	☐ Waste Tire Storage – Dealer		☐ Waste Tire Storage – New Product Manufacturing		☐ Waste Tire Storage – Onsite Energy Recovery		☐ Waste Tire Storage – permitted		☐ Waste Tire Storage – Retreader		☐ Other _____
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	☐ Waste Tire Storage – permitted																																											
	☐ Waste Tire Storage – Retreader																																											
	☐ Other _____																																											
DEC ACTIVITY CODE(S) OR REGISTRATION NUMBER(S):	FACILITY COUNTY:	NYSDEC REGION #:																																										

This document certifies that the type of facility or activity identified above is no longer operational. The owner/operator relinquishes their NYSDEC permit/registration and retains no other permit, registrations, or licenses related to the identified activity. It is recognized that in order to resume operation, a new permit application or registration form must be submitted to the Department for processing and approval. This notification does not excuse the facility from any closure, post-closure, or other requirements identified in 6 NYCRR Part 360.

I hereby affirm under penalty of perjury that information provided on this form was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority to sign this form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

_____ Name (Print or Type)	_____ Title (Print or Type)	(_____) _____ Phone Number
_____ Address	_____ City	_____ State and Zip Code
_____ Signature	_____ Date	



ATTACHMENT E

Niagara County Refuse Disposal District Quarterly Leachate Totals

**NIAGARA COUNTY REFUSE DISPOSAL DISTRICT
YEAR-TO-DATE LEACHATE TOTALS**

FOR THE YEAR: 2022

MONTH C & D LANDFILL LANDFILL #1 LANDFILL #2

JANUARY	14,970	0	24,950
FEBRUARY	24,950	9,980	54,890
MARCH	27,750	2,400	44,510
APRIL	13,370	0	25,140
MAY	15,970	0	24,460
JUNE	8,000	0	21,860
JULY	4,990	0	9,980
AUGUST	5,990	9,980	18,370
SEPTEMBER	7,490	0	17,460
OCTOBER	14,070	1,400	19,470
NOVEMBER	21,250	10,480	28,150
DECEMBER	12,870	1,490	35,540
TOTALS	171,670	35,730	324,780
GRAND TOTAL	532,180		

NIAGARA COUNTY REFUSE DISPOSAL DISTRICT **QUARTERLY LEACHATE TOTALS**

QUARTER Fourth (Oct - Dec)

DATE	C & D LANDFILL	LANDFILL #1	LANDFILL #2
7-Oct			4,990
17-Oct	4,990		4,990
19-Oct	4,990	1,400	3,600
26-Oct	4,090		5,890
	14,070	1,400	19,470
2-Nov	1,290		3,700
3-Nov		4,990	
15-Nov	4,990		4,990
16-Nov		2,500	7,480
23-Nov		2,990	6,990
29-Nov	4,990		4,990
30-Nov	9,980		
	21,250	10,480	28,150
6-Dec		1,490	8,490
8-Dec	2,890		2,100
15-Dec			4,990
21-Dec	4,990		9,980
29-Dec	4,990		
30-Dec			9,980
	12,870	1,490	35,540

NEWFANE WASTEWATER TREATMENT FACILITY NON-HAZARDOUS WASTE HAULER LOG

DATE	TIME	HAULER	DRIVER	SOURCE	GALLONS DELIVERED
7-Oct	8:00	NCRDD	R. Rees	Landfill 2	4990
17-Oct	10:10	NCRDD	G. Joseph	C&D	4990
17-Oct	12:30	NCRDD	G. Joseph	Landfill 2	4990
19-Oct	0:00	NCRDD	G. Joseph	C&D	4990
19-Oct	12:17	NCRDD	G. Joseph	Landfill 2	3600
19-Oct	13:02	NCRDD	G. Joseph	Landfill 1 East	1400
26-Oct	9:17	NCRDD	G. Joseph	Landfill 2	4990
26-Oct	11:28	NCRDD	G. Joseph	C&D	4090
26-Oct	11:45	NCRDD	G. Joseph	Landfill 2	900
					34,940

**Oct.
GALLONS**

NEWFANE WASTEWATER TREATMENT FACILITY NON-HAZARDOUS WASTE HAULER LOG

DATE	TIME	HAULER	DRIVER	SOURCE	GALLONS DELIVERED
2-Nov	8:14	NCRDD	G. Joseph	Landfill 2	3,700
2-Nov	9:00	NCRDD	G. Joseph	C&D	1,290
3-Nov	9:00	NCRDD	G. Joseph	Landfill 1 East	4,990
15-Nov	8:25	NCRDD	G. Joseph	Landfill 2	4,990
15-Nov	11:05	NCRDD	G. Joseph	C&D	4,990
16-Nov	9:14	NCRDD	G. Joseph	Landfill 2	4,990
16-Nov	11:42	NCRDD	G. Joseph	Landfill 2	2,490
16-Nov	12:15	NCRDD	G. Joseph	Landfill 1 East	2,500
23-Nov	8:25	NCRDD	G. Joseph	Landfill 2	4,990
23-Nov	10:53	NCRDD	G. Joseph	Landfill 2	2,000
23-Nov	11:25	NCRDD	G. Joseph	Landfill 1 East	2,990
29-Nov	8:38	NCRDD	G. Joseph	Landfill 2	4,990
29-Nov	10:54	NCRDD	G. Joseph	C&D	4,990
30-Nov	8:44	NCRDD	G. Joseph	C&D	4,990
30-Nov	10:50	NCRDD	G. Joseph	C&D	4,990
					59,880

**Nov.
GALLONS**

NEWFANE WASTEWATER TREATMENT FACILITY NON-HAZARDOUS WASTE HAULER LOG

DATE	TIME	HAULER	DRIVER	SOURCE	GALLONS DELIVERED
6-Dec	8:30	NCRDD	G. Joseph	Landfill 2	4,990
6-Dec	10:48	NCRDD	G. Joseph	Landfill 2	3,500
6-Dec	11:30	NCRDD	G. Joseph	Landfill 1 East	1,490
8-Dec	8:46	NCRDD	G. Joseph	Landfill 2	2,100
8-Dec	9:22	NCRDD	G. Joseph	C&D	2,890
15-Dec	8:30	NCRDD	G. Joseph	Landfill 2	4,990
21-Dec	8:20	NCRDD	G. Joseph	C&D	4,990
21-Dec	10:32	NCRDD	G. Joseph	Landfill 2	4,990
29-Dec	8:15	NCRDD	G. Joseph	Landfill 2	4,990
29-Dec	10:43	NCRDD	G. Joseph	C&D	4,990
30-Dec	8:10	NCRDD	G. Joseph	Landfill 2	4,990
30-Dec	10:20	NCRDD	G. Joseph	Landfill 2	4,990
					49,900

**Dec.
GALLONS**

NIAGARA COUNTY CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL SECONDARY LOADOUT SUMMARY

Date	Secondary Load Out Flow Meter (Daily Gallons)	Secondary Load Out Flow Meter (Monthly Gallons)
Sat - 10/1/22	230	230
Sun - 10/2/22	230	460
Mon - 10/3/22	370	830
Tue - 10/4/22	90	920
Wed - 10/5/22	0	920
Thu - 10/6/22	440	1,360
Fri - 10/7/22	0	1,360
Sat - 10/8/22	40	1,400
Sun - 10/9/22	50	1,450
Mon - 10/10/22	20	1,470
Tue - 10/11/22	370	1,840
Wed - 10/12/22	0	1,840
Thu - 10/13/22	120	1,960
Fri - 10/14/22	80	2,040
Sat - 10/15/22	460	2,500
Sun - 10/16/22	660	3,160
Mon - 10/17/22	10	3,170
Tue - 10/18/22	620	3,790
Wed - 10/19/22	730	4,520
Thu - 10/20/22	1,100	5,620
Fri - 10/21/22	750	6,370
Sat - 10/22/22	790	7,160
Sun - 10/23/22	1,020	8,180
Mon - 10/24/22	370	8,550
Tue - 10/25/22	450	9,000
Wed - 10/26/22	480	9,480
Thu - 10/27/22	610	10,090
Fri - 10/28/22	400	10,490
Sat - 10/29/22	410	10,900
Sun - 10/30/22	460	11,360
Mon - 10/31/22	170	11,530

Notes:

NIAGARA COUNTY REFUSE DISPOSAL DISTRICT CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL SECONDARY
LOAD OUT SUMMARY

Date	Secondary Load Out Flow Meter (Daily Gallons)	Secondary Load Out Flow Meter (Monthly Gallons)	Notes:
Tue - 11/1/22	380	380	
Wed - 11/2/22	70	450	
Thu - 11/3/22	420	870	
Fri - 11/4/22	160	1,030	
Sat - 11/5/22	520	1,550	
Sun - 11/6/22	130	1,680	
Mon - 11/7/22	480	2,160	
Tue - 11/8/22	640	2,800	
Wed - 11/9/22	350	3,150	
Thu - 11/10/22	240	3,390	
Fri - 11/11/22	720	4,110	
Sat - 11/12/22	790	4,900	
Sun - 11/13/22	0	4,900	
Mon - 11/14/22	0	4,900	
Tue - 11/15/22	10	4,910	
Wed - 11/16/22	2,970	7,880	
Thu - 11/17/22	710	8,590	
Fri - 11/18/22		8,590	Power Outage
Sat - 11/19/22	1,120	9,710	
Sun - 11/20/22	0	9,710	
Mon - 11/21/22	0	9,710	
Tue - 11/22/22	0	9,710	
Wed - 11/23/22	0	9,710	
Thu - 11/24/22	10	9,720	
Fri - 11/25/22		9,720	Power Outage
Sat - 11/26/22		9,720	Power Outage
Sun - 11/27/22		9,720	Power Outage
Mon - 11/28/22		9,720	Power Outage
Tue - 11/29/22	3,210	12,930	
Wed - 11/30/22	2,860	15,790	

NIAGARA COUNTY REFUSE DISPOSAL DISTRICT CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL SECONDARY
LOAD OUT SUMMARY

Date	Secondary Load Out Flow Meter (Daily Gallons)	Secondary Load Out Flow Meter (Monthly Gallons)
Thu - 12/1/22	510	510
Fri - 12/2/22	900	1,410
Sat - 12/3/22	860	2,270
Sun - 12/4/22	680	2,950
Mon - 12/5/22	740	3,690
Tue - 12/6/22	460	4,150
Wed - 12/7/22	850	5,000
Thu - 12/8/22	70	5,070
Fri - 12/9/22	560	5,630
Sat - 12/10/22	390	6,020
Sun - 12/11/22	420	6,440
Mon - 12/12/22	370	6,810
Tue - 12/13/22	320	7,130
Wed - 12/14/22	380	7,510
Thu - 12/15/22	780	8,290
Fri - 12/16/22	310	8,600
Sat - 12/17/22	820	9,420
Sun - 12/18/22	10	9,430
Mon - 12/19/22	0	9,430
Tue - 12/20/22	0	9,430
Wed - 12/21/22	2,210	11,640
Thu - 12/22/22	660	12,300
Fri - 12/23/22	640	12,940
Sat - 12/24/22	650	13,590
Sun - 12/25/22	0	13,590
Mon - 12/26/22	0	13,590
Tue - 12/27/22	0	13,590
Wed - 12/28/22	0	13,590
Thu - 12/29/22	20	13,610
Fri - 12/30/22	4,090	17,700
Sat - 12/31/22	20	17,720

Notes:

Power Failure

Power Failure

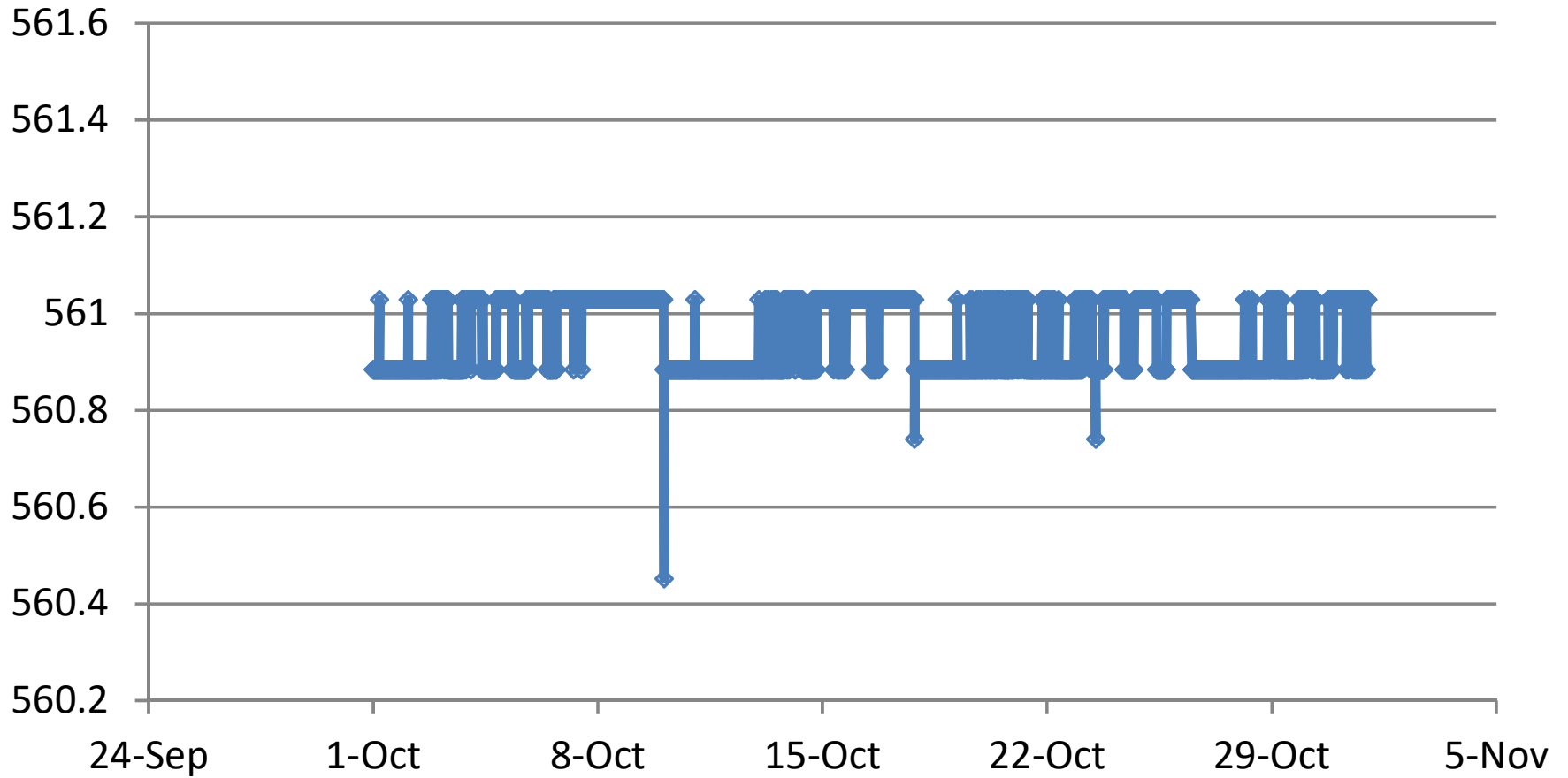
Tank Full/Blizzard restricted access

Tank Full/Blizzard restricted access

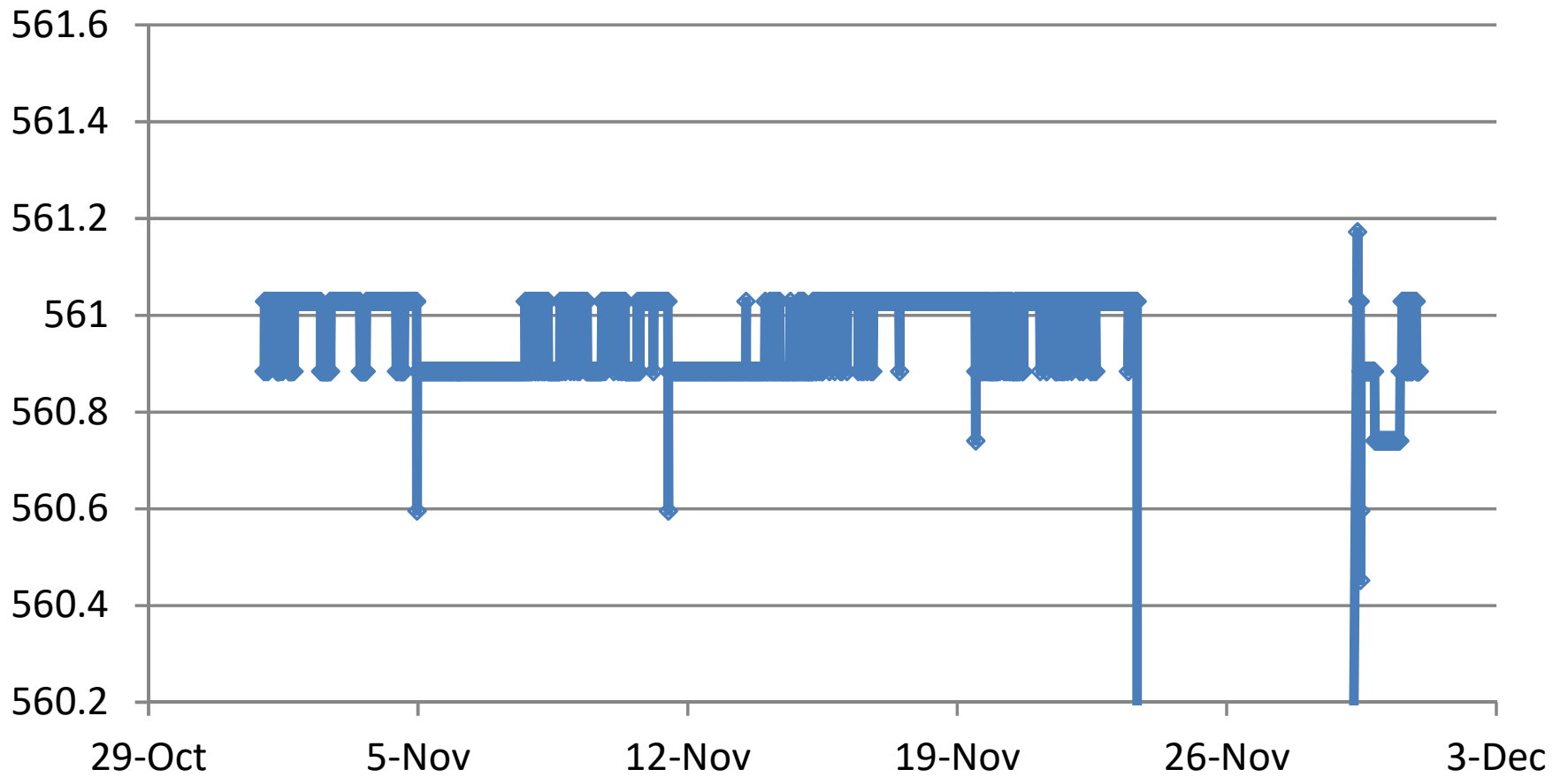
Tank Full/Blizzard restricted access

Tank Full/Blizzard restricted access

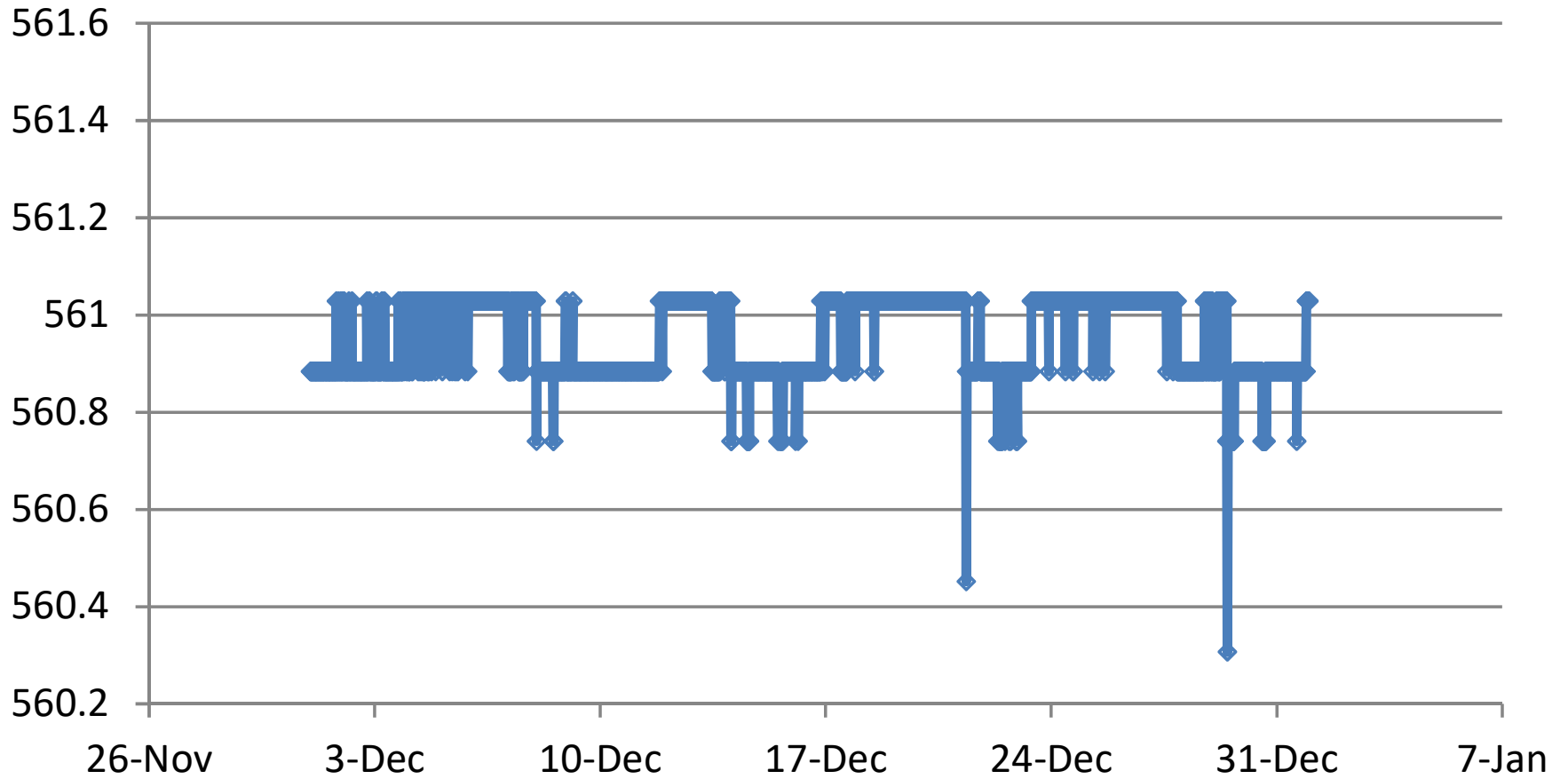
October C&D Landfill Manhole 3 Elevation



November C&D Landfill Manhole 3 Elevation



December C&D Landfill Manhole 3 Elevation



Landfill 2 4Q2022 Level

— Manhole 2

