

Tables

**TABLE 1
MONITORING LOCATIONS**

Mill Seat Landfill
Town of Riga, New York

Monitoring Wells	Frequency
Original Permitted Footprint Monitoring Wells (Water Quality)	Quarterly ⁽¹⁾ ; reduced to Semi-Annually when Stage VII becomes operable
M-1A* (M-1B is unsaturated and cannot be sampled)	
M-2A (to be decommissioned with Stage V-A construction)	
M-2B (to be decommissioned with Stage V-A construction)	
M2Z (to be decommissioned with Stage V-A construction)	
M-4A	
M-4B	
M-6A	
M-6B	
M-7A (to be decommissioned with Stage VI-B construction)	
M-7B (to be decommissioned with Stage VI-B construction)	
M-8A	
M-8B	
M-10A	
M-10B	
M-14A	
M-14B	
M-15A	
M-15B	
M-16A	
M-16B	
M-17A	
M-17B	
M-18A	
M-18B	
M-19A	
M-19B	
M-20A	
M-20B	
M-22A	
M-22B	
M-23A**	
M-23B**	
M-24A**	
M-24B**	
M-25A*	
M-25B*	
A-1 (artesian well)	

Monitoring Wells	Frequency
Expansion Area Monitoring Wells (Water Quality)	Quarterly ⁽¹⁾
M-26A	
M-26B	
M-27A	
M-27B	
M-28A	
M-28B	
M-29A (re-name MW- SEA-4A)	
M-29B (re-name MW-1D-2006 aka, MW-SEA-4B)	
M-30A	
M-30B	
M-31A	
M-31B	
M-32A	
M-32B	
M-33A	
M-33B	
M-34A	
M-34B	
M-35A (re-name MW- SEA-2A)	
M-35B (re-name MW- SEA-2B)	
M-36A* (re-name MW- SEA-1A)	
M-36B* (re-name MW- SEA-1B)	

Expansion Area Monitoring Wells (Water Levels only)	Frequency
MW-SEA-5A	Quarterly ⁽¹⁾
MW-SEA-5B	
PZ-SEA-5Z	
MW-SEA-6A	
MW-SEA-6B	
PZ-SEA-6Z	
MW-SEA-3Z	
PZ-SEA-3Z	
PZ-SEA-1Z	
Shallow overburden piezometers to be decommissioned prior to stage construction	

Color coding above for well installation/background monitoring sequencing with Expansion Area Stage Development
Sampling with Proposed Stage V and Stage VI operation
Sampling with Proposed Stage VII and Stage VIII operation
Sampling with Proposed Stage IX operation

Surface Water/Sediment Locations	Frequency
S1 / SED1	Quarterly ⁽¹⁾
S2 / SED2	
S3 / SED3	
S4 / SED4	
S5 / SED5	
S6 / SED6	
S8 / SED8	

Landfill System (Sample ID)	Frequency
Retention Ponds	Quarterly ⁽¹⁾
DP-1	
DP-2 (detention pond will be relocated to SRP-8)	
SRP-7	Semi-Annually
Primary Leachate Sampling Points	
L1 Stage 1	
L1 Stage 2-3	
S4A-P	
S5A&B-P	
S6A&B-P	
S7-P	
S8-P	
S9A&B-P	
Secondary Leachate Sampling Points	
L2 Stage 1	
L2 Stage 2-3	
S4A-S	
S5A&B-S	
S6A&B-S	
S7-S	
S8-S	
S9A&B-S	

Noise Monitoring (Sample ID - Location)	Frequency
P-1 - North property boundary	Quarterly ⁽¹⁾
P-2 - East property boundary	
P-3 - Along Brew Road	
P-4 - Southeast facility boundary	
P-5 - Southwest facility area	
P-6 - West property boundary	

Ambient Air Testing (Explosive Gas/Particulates)	Frequency
WF-AA - Working Face	Quarterly ⁽¹⁾
N-AA - North property boundary	
E-AA - East of Expansion	
S-AA - South of Expansion	
W-AA - West of Expansion	

Groundwater Suppression System Sites	Frequency
GW 9-1.2	Quarterly ⁽¹⁾
GW 11-1.2	
GW 13-1.2	
GW 15-1.2	
GW 16-1.2	
GW 17-1.2	
GW 18-1.2	
GW 19-1.2	
GW 20-1.2	
GW 21-1.2	
GW 22-1.2	
GW 23-1.2	
GW 24-1.2	
GW 25-1.2	
GW 26-1.2	
GW 27-1.2	
GW 28-1.2	
GW 29-1.2	
GW 30-1.2	
GW 31-1.2	
GW 32-1.2	
GW 33-1.2	
GW 38-1.2	
S4A-U	
S5A&B-U	
S6A&B-U	
S7-U	
S8-U	
S9A&B-U	

Notes:
 * upgradient wells for water quality monitoring
 ** cross gradient wells for water quality monitoring
 Leachate sampling - Stage 1, Stage 2-3, and S4 refer to permitted footprint others refer to Landfill Expansion
 (1) Quarterly sampling excludes the winter months (January through March); sampling frequency is therefore three (3) times per year.

**TABLE 2A
EXPANDED MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Leachate Indicators (ug/L)				
Total Kjeldahl Nitrogen	STL00296	351.2	0.200	mg/L as N
Ammonia, distilled	7664-41-7	350.1	0.200	mg/L as N
Nitrate	14797-55-8	Nitrate Calc	0.0500	mg/L as N
Biochemical Oxygen Demand 5 day	STL00311	5210B	2.00	mg/L
Chemical Oxygen Demand	STL00070	410.4	10.0	mg/L
Total Dissolved Solids	STL00242	2540C Calcd	10.0	mg/L
Total Organic Carbon	7440-44-0	SM5310D	1.00	mg/L
Sulfate	14808-79-8	300.0 28D	2.00	mg/L
Alkalinity, Total	STL00171	2320B	5.00	mg/L
Phenolics, Total Recoverable	STL00166	420.4	0.00800	mg/L
Chloride	16887-00-6	300.0 28D	0.500	mg/L
Hardness as CaCO3	STL00009	2340C	2.00	mg/L
Color	STL00153	2120B	0.0100	Color Units
Inorganic Parameters				
Aluminum	7429-90-5	6010C	60.0	ug/L
Antimony	7440-36-0	6010C	7.00	ug/L
Arsenic	7440-38-2	6010C	10.0	ug/L
Barium	7440-39-3	6010C	500	ug/L
Beryllium	7440-41-7	6010C	3.00	ug/L
Boron	7440-42-8	6010C	500	ug/L
Bromide	24959-67-9	300.0 28D	0.200	mg/L
Cadmium	7440-43-9	6010C	1.00	ug/L
Calcium	7440-70-2	6010C	500	ug/L
Chromium	7440-47-3	6010C	25.0	ug/L
Chromium, hexavalent	18540-29-9	7196A	0.00600	mg/L
Cyanide, Total	57-12-5	9012B	0.00500	mg/L
Cobalt	7440-48-4	6010C	5.00	ug/L
Copper	7440-50-8	6010C	10.0	ug/L
Iron	7439-89-6	6010C	50.0	ug/L
Lead	7439-92-1	6010C	5.00	ug/L
Magnesium	7439-95-4	6010C	500	ug/L
Manganese	7439-96-5	6010C	25.0	ug/L
Mercury	7439-97-6	7470A	0.200	ug/L
Nickel	7440-02-0	6010C	30.0	ug/L
Potassium	7440-09-7	6010C	3000	ug/L
Selenium	7782-49-2	6010C	9.00	ug/L
Silver	7440-22-4	6010C	5.00	ug/L
Sodium	7440-23-5	6010C	500	ug/L
Thallium	7440-28-0	6010C	20.0	ug/L
Tin	7440-31-5	6010C	8000	ug/L
Vanadium	7440-62-2	6010C	14.0	ug/L
Zinc	7440-66-6	6010C	10.0	ug/L
Volatile Organic Compounds (VOCs)				
1,1,1,2-Tetrachloroethane	630-20-6	8260C	5.00	ug/L
1,1,1-Trichloroethane	71-55-6	8260C	5.00	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	8260C	0.500	ug/L
1,1,2-Trichloroethane	79-00-5	8260C	0.500	ug/L
1,1-Dichloroethane	75-34-3	8260C	1.00	ug/L
1,1-Dichloroethene	75-35-4	8260C	1.00	ug/L
1,1-Dichloropropene	563-58-6	8260C	1.00	ug/L
1,2,3-Trichloropropane	96-18-4	8260C	0.890	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	8260C	1.00	ug/L
1,2-Dibromoethane	106-93-4	8260C	5.00	ug/L
1,2-Dichlorobenzene	95-50-1	8260C	2.00	ug/L

**TABLE 2A
EXPANDED MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
1,2-Dichloroethane	107-06-2	8260C	0.500	ug/L
1,2-Dichloropropane	78-87-5	8260C	0.720	ug/L
1,3-Dichlorobenzene	541-73-1	8260C	1.00	ug/L
1,3-Dichloropropane	142-28-9	8260C	1.00	ug/L
1,4-Dichlorobenzene	106-46-7	8260C	2.00	ug/L
2,2-Dichloropropane	594-20-7	8260C	1.00	ug/L
2-Butanone	78-93-3	8260C	100	ug/L
2-Chloro-1,3-butadiene	126-99-8	8260C	2.00	ug/L
2-Hexanone	591-78-6	8260C	10.0	ug/L
4-Methyl-2-pentanone	108-10-1	8260C	5.00	ug/L
Acetone	67-64-1	8260C	100	ug/L
Acetonitrile	75-05-8	8260C	26.0	ug/L
Acrolein	107-02-8	8260C	40.0	ug/L
Acrylonitrile	107-13-1	8260C	10.5	ug/L
3-Chloropropene (Allyl Chloride)	107-05-1	8260C	1.00	ug/L
Benzene	71-43-2	8260C	0.700	ug/L
Bromochloromethane	74-97-5	8260C	2.50	ug/L
Bromodichloromethane	75-27-4	8260C	1.00	ug/L
Bromoform	75-25-2	8260C	2.00	ug/L
Bromomethane	74-83-9	8260C	5.00	ug/L
Carbon disulfide	75-15-0	8260C	5.00	ug/L
Carbon tetrachloride	56-23-5	8260C	1.00	ug/L
Chlorobenzene	108-90-7	8260C	2.00	ug/L
Chloroethane	75-00-3	8260C	5.00	ug/L
Chloroform	67-66-3	8260C	0.500	ug/L
Chloromethane	74-87-3	8260C	5.00	ug/L
cis-1,2-Dichloroethene	156-59-2	8260C	1.00	ug/L
cis-1,3-Dichloropropene	10061-01-5	8260C	0.400	ug/L
Dibromochloromethane	124-48-1	8260C	1.00	ug/L
Dibromomethane	74-95-3	8260C	5.00	ug/L
Dichlorodifluoromethane	75-71-8	8260C	2.00	ug/L
Ethyl methacrylate	97-63-2	8260C	1.00	ug/L
Ethylbenzene	100-41-4	8260C	2.00	ug/L
Iodomethane	74-88-4	8260C	5.00	ug/L
Isobutanol	78-83-1	8260C	100	ug/L
Methacrylonitrile	126-98-7	8260C	10.0	ug/L
Methyl methacrylate	80-62-6	8260C	1.00	ug/L
Methylene Chloride	75-09-2	8260C	5.00	ug/L
Propionitrile	107-12-0	8260C	30.0	ug/L
Styrene	100-42-5	8260C	5.00	ug/L
Tetrachloroethene	127-18-4	8260C	0.500	ug/L
Toluene	108-88-3	8260C	2.00	ug/L
trans-1,2-Dichloroethene	156-60-5	8260C	1.00	ug/L
trans-1,3-Dichloropropene	10061-02-6	8260C	0.400	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	8260C	5.00	ug/L
Trichloroethene	79-01-6	8260C	1.00	ug/L
Trichlorofluoromethane	75-69-4	8260C	5.00	ug/L
Vinyl acetate	108-05-4	8260C	5.00	ug/L
Vinyl chloride	75-01-4	8260C	2.00	ug/L
Xylenes, Total	1330-20-7	8260C	5.00	ug/L

**TABLE 2A
EXPANDED MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Semi-Volatile Organic Compounds (SVOCs)				
1,2,4,5-Tetrachlorobenzene	95-94-3	8270D	5.00	ug/L
1,2,4-Trichlorobenzene	120-82-1	8270D	10.0	ug/L
1,4-Naphthoquinone	130-15-4	8270D	10.0	ug/L
1-Naphthylamine	134-32-7	8270D	10.0	ug/L
2,2'-Oxybis(1-chloropropane)	108-60-1	8270D	5.00	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	8270D	5.00	ug/L
2,4,5-Trichlorophenol	95-95-4	8270D	5.00	ug/L
2,4,6-Trichlorophenol	88-06-2	8270D	5.00	ug/L
2,4-Dichlorophenol	120-83-2	8270D	5.00	ug/L
2,4-Dimethylphenol	105-67-9	8270D	5.00	ug/L
2,4-Dinitrophenol	51-28-5	8270D	10.0	ug/L
2,4-Dinitrotoluene	121-14-2	8270D	5.00	ug/L
2,6-Dichlorophenol	87-65-0	8270D	10.0	ug/L
2,6-Dinitrotoluene	606-20-2	8270D	5.00	ug/L
2-Acetylaminofluorene	53-96-3	8270D	10.0	ug/L
2-Chloronaphthalene	91-58-7	8270D	5.00	ug/L
2-Chlorophenol	95-57-8	8270D	5.00	ug/L
2-Methylnaphthalene	91-57-6	8270D	5.00	ug/L
2-Methylphenol	95-48-7	8270D	5.00	ug/L
2-Naphthylamine	91-59-8	8270D	10.0	ug/L
2-Nitroaniline	88-74-4	8270D	10.0	ug/L
2-Nitrophenol	88-75-5	8270D	5.00	ug/L
3 & 4 Methylphenol	15831-10-4	8270D	10.0	ug/L
3,3'-Dichlorobenzidine	91-94-1	8270D	5.00	ug/L
3,3'-Dimethylbenzidine	119-93-7	8270D	40.0	ug/L
3-Methylcholanthrene	56-49-5	8270D	10.0	ug/L
3-Nitroaniline	99-09-2	8270D	10.0	ug/L
4,6-Dinitro-2-methylphenol	534-52-1	8270D	10.0	ug/L
4-Aminobiphenyl	92-67-1	8270D	10.0	ug/L
4-Bromophenyl phenyl ether	101-55-3	8270D	5.00	ug/L
4-Chloro-3-methylphenol	59-50-7	8270D	5.00	ug/L
4-Chloroaniline	106-47-8	8270D	5.00	ug/L
4-Chlorophenyl phenyl ether	7005-72-3	8270D	5.00	ug/L
4-Nitroaniline	100-01-6	8270D	10.0	ug/L
4-Nitrophenol	100-02-7	8270D	10.0	ug/L
5-Nitro-o-toluidine	99-55-8	8270D	10.0	ug/L
7,12-Dimethylbenz(a)anthracene	57-97-6	8270D	10.0	ug/L
Acenaphthene	83-32-9	8270D	5.00	ug/L
Acenaphthylene	208-96-8	8270D	5.00	ug/L
Acetophenone	98-86-2	8270D	5.00	ug/L
Anthracene	120-12-7	8270D	5.00	ug/L
Benz(a)anthracene	56-55-3	8270D	5.00	ug/L
Benzo[a]pyrene	50-32-8	8270D	5.00	ug/L
Benzo(b)fluoranthene	205-99-2	8270D	5.00	ug/L
Benzo(ghi)perylene	191-24-2	8270D	5.00	ug/L
Benzo(k)fluoranthene	207-08-9	8270D	5.00	ug/L
Benzyl alcohol	100-51-6	8270D	20.0	ug/L
Bis(2-chloroethoxy)methane	111-91-1	8270D	5.00	ug/L
Bis(2-chloroethyl)ether	111-44-4	8270D	5.00	ug/L
Bis(2-ethylhexyl) phthalate	117-81-7	8270D	5.00	ug/L
Butyl benzyl phthalate	85-68-7	8270D	5.00	ug/L
Chlorobenzilate	510-15-6	8270D	20.0	ug/L
Chrysene	218-01-9	8270D	5.00	ug/L
Diallate	2303-16-4	8270D	10.0	ug/L

**TABLE 2A
EXPANDED MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Dibenz(a,h)anthracene	53-70-3	8270D	5.00	ug/L
Diethyl phthalate	84-66-2	8270D	5.00	ug/L
Dimethoate	60-51-5	8270D	10.0	ug/L
Dimethyl phthalate	131-11-3	8270D	5.00	ug/L
Di-n-butyl phthalate	84-74-2	8270D	5.00	ug/L
Di-n-octyl phthalate	117-84-0	8270D	5.00	ug/L
Diphenylamine	122-39-4	8270D	10.0	ug/L
Disulfoton	298-04-4	8270D	10.0	ug/L
Ethyl methanesulfonate	62-50-0	8270D	10.0	ug/L
Famphur	52-85-7	8270D	40.0	ug/L
Fluoranthene	206-44-0	8270D	5.00	ug/L
Fluorene	86-73-7	8270D	5.00	ug/L
Hexachlorobenzene	118-74-1	8270D	5.00	ug/L
Hexachlorobutadiene	87-68-3	8270D	5.00	ug/L
Hexachlorocyclopentadiene	77-47-4	8270D	5.00	ug/L
Hexachloroethane	67-72-1	8270D	5.00	ug/L
Hexachloropropene	1888-71-7	8270D	10.0	ug/L
Indeno[1,2,3-cd]pyrene	193-39-5	8270D	5.00	ug/L
Isodrin	465-73-6	8270D	10.0	ug/L
Isophorone	78-59-1	8270D	5.00	ug/L
Isosafrole	120-58-1	8270D	10.0	ug/L
Kepone	143-50-0	8270D	50.0	ug/L
m-Dinitrobenzene	99-65-0	8270D	20.0	ug/L
Methapyrilene	91-80-5	8270D	50.0	ug/L
Methyl methanesulfonate	66-27-3	8270D	10.0	ug/L
Naphthalene	91-20-3	8270D	5.00	ug/L
Nitrobenzene	98-95-3	8270D	5.00	ug/L
N-Nitrosodiethylamine	55-18-5	8270D	10.0	ug/L
N-Nitrosodimethylamine	62-75-9	8270D	10.0	ug/L
N-Nitrosodi-n-butylamine	924-16-3	8270D	10.0	ug/L
N-Nitrosodi-n-propylamine	621-64-7	8270D	5.00	ug/L
N-Nitrosodiphenylamine	86-30-6	8270D	5.00	ug/L
N-Nitrosomethylethylamine	10595-95-6	8270D	10.0	ug/L
N-Nitrosopiperidine	100-75-4	8270D	10.0	ug/L
N-Nitrosopyrrolidine	930-55-2	8270D	10.0	ug/L
o,o',o"-Triethylphosphorothioate	126-68-1	8270D	10.0	ug/L
o-Toluidine	95-53-4	8270D	10.0	ug/L
Parathion	56-38-2	8270D	10.0	ug/L
Methyl parathion	298-00-0	8270D	10.0	ug/L
p-Dimethylamino azobenzene	60-11-7	8270D	10.0	ug/L
Pentachlorobenzene	608-93-5	8270D	10.0	ug/L
Pentachloronitrobenzene	82-68-8	8270D	10.0	ug/L
Pentachlorophenol	87-86-5	8270D	10.0	ug/L
Phenacetin	62-44-2	8270D	10.0	ug/L
Phenanthrene	85-01-8	8270D	5.00	ug/L
Phenol	108-95-2	8270D	5.00	ug/L
Phorate	298-02-2	8270D	10.0	ug/L
p-Phenylene diamine	106-50-3	8270D	800	ug/L
Pronamide	23950-58-5	8270D	10.0	ug/L
Pyrene	129-00-0	8270D	5.00	ug/L
Safrole	94-59-7	8270D	10.0	ug/L
sym-Trinitrobenzene	99-35-4	8270D	10.0	ug/L
Thionazin	297-97-2	8270D	10.0	ug/L

**TABLE 2A
EXPANDED MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Pesticide and Herbicide				
4,4'-DDD	72-54-8	8081B	0.0500	ug/L
4,4'-DDE	72-55-9	8081B	0.0500	ug/L
4,4'-DDT	50-29-3	8081B	0.0500	ug/L
Aldrin	309-00-2	8081B	0.0500	ug/L
alpha-BHC	319-84-6	8081B	0.0500	ug/L
beta-BHC	319-85-7	8081B	0.0500	ug/L
Chlordane	57-74-9	8081B	0.500	ug/L
delta-BHC	319-86-8	8081B	0.0500	ug/L
Dieldrin	60-57-1	8081B	0.0500	ug/L
Endosulfan I	959-98-8	8081B	0.0500	ug/L
Endosulfan II	33213-65-9	8081B	0.0500	ug/L
Endosulfan sulfate	1031-07-8	8081B	0.0500	ug/L
Endrin	72-20-8	8081B	0.0500	ug/L
Endrin aldehyde	7421-93-4	8081B	0.0500	ug/L
gamma-BHC (Lindane)	58-89-9	8081B	0.0500	ug/L
Heptachlor	76-44-8	8081B	0.0500	ug/L
Heptachlor epoxide	1024-57-3	8081B	0.0500	ug/L
Methoxychlor	72-43-5	8081B	0.500	ug/L
Toxaphene	8001-35-2	8081B	0.500	ug/L
Herbicides				
2,4,5-T	93-76-5	8151A	0.500	ug/L
2,4-D	94-75-7	8151A	0.500	ug/L
Dinoseb	88-85-7	8151A	0.500	ug/L
2,4,5-TP (Silvex)	93-72-1	8151A	0.500	ug/L
Polychlorinated biphenyls (PCBs)				
Aroclor 1016	12674-11-2	8082A	0.500	ug/L
Aroclor 1221	11104-28-2	8082A	0.500	ug/L
Aroclor 1232	11141-16-5	8082A	0.500	ug/L
Aroclor 1242	53469-21-9	8082A	0.500	ug/L
Aroclor 1248	12672-29-6	8082A	0.500	ug/L
Aroclor 1254	11097-69-1	8082A	0.500	ug/L
Aroclor 1260	11096-82-5	8082A	0.500	ug/L

Notes:

⁽¹⁾ The following field parameters are also taken: static water levels (in wells and sumps), specific conductance, temperature, floaters or sinkers, pH, Eh, DO (SW only), field observations and turbidity.

Dioxins and dibenzofuran analysis was waived by the NYSDEC for the Mill Seat LF

CAS RN is the Chemical Abstract Number

Method is EPA Method #

PQL is Practical Quantification Limit

ug/L is micrograms per liter

mg/L is milligrams per liter

Metals are totals

**TABLE 2B
ROUTINE MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Leachate Indicators				
Total Kjeldahl Nitrogen	STL00296	351.2	0.200	mg/L as N
Ammonia (as N)	7664-41-7	350.1	0.0200	mg/L as N
Nitrate	14797-55-8	Nitrate_Calc	0.0500	mg/L as N
Biochemical Oxygen Demand	STL00311	5210B	2.00	mg/L
Chemical Oxygen Demand	STL00070	410.4	10.0	mg/L
Total Organic Carbon	7440-44-0	SM5310D	1.00	mg/L
Total Dissolved Solids	STL00242	2540C_Calcd	10.0	mg/L
Sulfate	14808-79-8	300.0_28D	2.00	mg/L
Alkalinity, Total	STL00171	2320B	5.00	mg/L
Phenolics, Total Recoverable	STL00166	420.4	0.00800	mg/L
Chloride	16887-00-6	300.0_28D	0.500	mg/L
Bromide	24959-67-9	300.0_28D	0.200	mg/L
Total Hardness	STL00009	2340C	2.00	mg/L
Color	STL00153	2120B	0.0100	Color Units
Inorganic Parameters				
Cadmium	7440-43-9	6010C	1.00	ug/L
Calcium	7440-70-2	6010C	500	ug/L
Iron	7439-89-6	6010C	50.0	ug/L
Lead	7439-92-1	6010C	5.00	ug/L
Magnesium	7439-95-4	6010C	500	ug/L
Manganese	7439-96-5	6010C	25.0	ug/L
Potassium	7440-09-7	6010C	3000	ug/L
Sodium	7440-23-5	6010C	500	ug/L

Notes:

⁽¹⁾ The following field parameters are also taken: static water levels (in wells and sumps), specific conductance, temperature, floaters or sinkers, pH, Eh, DO (SW only), field observations and turbidity.

CAS RN is the Chemical Abstract Number

Method is EPA method #

PQL is Practical Quantification Limit

ug/L is micrograms per liter

mg/L is milligrams per liter

Metals are totals

**TABLE 2C
BASELINE MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Leachate Indicators				
Total Kjeldahl Nitrogen	STL00296	351.2	0.200	mg/L as N
Ammonia (as N)	7664-41-7	350.1	0.0200	mg/L as N
Nitrate	14797-55-8	Nitrate_Calc	0.0500	mg/L as N
Biochemical Oxygen Demand	STL00311	5210B	2.00	mg/L
Chemical Oxygen Demand	STL00070	410.4	10.0	mg/L
Total Organic Carbon	7440-44-0	SM5310D	1.00	mg/L
Total Dissolved Solids	STL00242	2540C_Calcd	10.0	mg/L
Sulfate	14808-79-8	300.0_28D	2.00	mg/L
Alkalinity, Total	STL00171	2320B	5.00	mg/L
Phenolics, Total Recoverable	STL00166	420.4	0.00800	mg/L
Chloride	16887-00-6	300.0_28D	0.500	mg/L
Bromide	24959-67-9	300.0_28D	0.200	mg/L
Total Hardness	STL00009	2340C	2.00	mg/L
Color	STL00153	2120B	0.0100	Color Units
Inorganic Parameters				
Aluminum	7429-90-5	6010C	60.0	ug/L
Antimony	7440-36-0	6010C	7.00	ug/L
Arsenic	7440-38-2	6010C	10.0	ug/L
Barium	7440-39-3	6010C	500	ug/L
Beryllium	7440-41-7	6010C	3.00	ug/L
Boron	7440-42-8	6010C	500	ug/L
Cadmium	7440-43-9	6010C	1.00	ug/L
Calcium	7440-70-2	6010C	500	ug/L
Chromium	7440-47-3	6010C	25.0	ug/L
Chromium, hexavalent	18540-29-9	7196A	0.00600	mg/L
Cobalt	7440-48-4	6010C	5.00	ug/L
Copper	7440-50-8	6010C	10.0	ug/L
Cyanide	57-12-5	9012A	0.00500	mg/L
Iron	7439-89-6	6010C	50.0	ug/L
Lead	7439-92-1	6010C	5.00	ug/L
Magnesium	7439-95-4	6010C	500	ug/L
Manganese	7439-96-5	6010C	25.0	ug/L
Mercury	7439-97-6	7470A	0.200	ug/L
Nickel	7440-02-0	6010C	30.0	ug/L
Potassium	7440-09-7	6010C	3000	ug/L
Selenium	7782-49-2	6010C	9.00	ug/L
Silver	7440-22-4	6010C	5.00	ug/L
Sodium	7440-23-5	6010C	500	ug/L
Sulfide	18496-25-8	SM4500_S2_F	1000	ug/L
Thallium	7440-28-0	6010C	20.0	ug/L
Vanadium	7440-62-2	6010C	14.0	ug/L
Zinc	7440-66-6	6010C	10.0	ug/L
Volatile Organic Compound (VOCs)				
1,1,1,2-Tetrachloroethane	630-20-6	8260C	1.00	ug/L
1,1,1-Trichloroethane	71-55-6	8260C	1.00	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	8260C	1.00	ug/L
1,1,2-Trichloroethane	79-00-5	8260C	1.00	ug/L
1,1-Dichloroethane	75-34-3	8260C	1.00	ug/L
1,2,3-Trichloropropane	96-18-4	8260C	1.00	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	8260C	1.00	ug/L

**TABLE 2C
BASELINE MONITORING PARAMETER LIST**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
1,2-Dibromoethane	106-93-4	8260C	1.00	ug/L
1,2-Dichlorobenzene	95-50-1	8260C	1.00	ug/L
1,2-Dichloroethane	107-06-2	8260C	1.00	ug/L
1,2-Dichloropropane	78-87-5	8260C	1.00	ug/L
1,4-Dichlorobenzene	106-46-7	8260C	1.00	ug/L
2-Butanone	78-93-3	8260C	5.00	ug/L
2-Hexanone	591-78-6	8260C	5.00	ug/L
4-Methyl-2-pentanone	108-10-1	8260C	5.00	ug/L
Acetone	67-64-1	8260C	5.00	ug/L
Acrylonitrile	107-13-1	8260C	5.00	ug/L
Benzene	71-43-2	8260C	1.00	ug/L
Bromochloromethane	74-97-5	8260C	1.00	ug/L
Bromodichloromethane	75-27-4	8260C	1.00	ug/L
Bromoform	75-25-2	8260C	1.00	ug/L
Bromomethane	74-83-9	8260C	1.00	ug/L
Carbon disulfide	75-15-0	8260C	1.00	ug/L
Carbon tetrachloride	56-23-5	8260C	1.00	ug/L
Chlorobenzene	108-90-7	8260C	1.00	ug/L
Chloroethane	75-00-3	8260C	1.00	ug/L
Chloroform	67-66-3	8260C	1.00	ug/L
Chloromethane	74-87-3	8260C	1.00	ug/L
cis-1,2-Dichloroethene	156-59-2	8260C	1.00	ug/L
cis-1,3-Dichloropropene	10061-01-5	8260C	1.00	ug/L
1,2-Dichloroethene	540-59-0	8260C	2.00	ug/L
Dibromochloromethane	124-48-1	8260C	1.00	ug/L
Dibromomethane	74-95-3	8260C	1.00	ug/L
Dichlorodifluoromethane	75-71-8	8260C	2.00	ug/L
Ethylbenzene	100-41-4	8260C	1.00	ug/L
Methylene Chloride	75-09-2	8260C	1.00	ug/L
Styrene	100-42-5	8260C	1.00	ug/L
Tetrachloroethene	127-18-4	8260C	1.00	ug/L
Toluene	108-88-3	8260C	1.00	ug/L
trans-1,2-Dichloroethene	156-60-5	8260C	1.00	ug/L
trans-1,3-Dichloropropene	10061-02-6	8260C	1.00	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	8260C	5.00	ug/L
Trichloroethene	79-01-6	8260C	1.00	ug/L
Trichlorofluoromethane	75-69-4	8260C	1.00	ug/L
Vinyl acetate	108-05-4	8260C	5.00	ug/L
Vinyl chloride	75-01-4	8260C	1.00	ug/L
Xylenes, Total	1330-20-7	8260C	2.00	ug/L

Notes:

⁽¹⁾ The following field parameters are also taken: static water levels (in wells and sumps), specific conductance, temperature, floaters or sinkers, pH, Eh, DO (SW only), field observations and turbidity. CAS RN is the Chemical Abstract Number

Method is EPA method #

PQL is Practical Quantification Limit

ug/L is micrograms per liter

mg/L is milligrams per liter

Metals are totals

**TABLE 2D
SEDIMENT BASELINE AND ROUTINE PARAMETERS**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
Inorganic Parameters				
Aluminum	7429-90-5	6010C	10.00	mg/Kg
Antimony	7440-36-0	6010C	15.00	mg/Kg
Arsenic	7440-38-2	6010C	2.00	mg/Kg
Barium	7440-39-3	6010C	0.50	mg/Kg
Beryllium	7440-41-7	6010C	0.20	mg/Kg
Cadmium	7440-43-9	6010C	0.20	mg/Kg
Calcium	7440-70-2	6010C	50.00	mg/Kg
Chromium	7440-47-3	6010C	0.50	mg/Kg
Chromium, hexavalent	18540-29-9	7196A	0.80	mg/Kg
Cobalt	7440-48-4	6010C	0.50	mg/Kg
Copper	7440-50-8	6010C	1.00	mg/Kg
Cyanide, Total	57-12-5	9012B	1.00	mg/Kg
Iron	7439-89-6	6010C	10.00	mg/Kg
Lead	7439-92-1	6010C	1.00	mg/Kg
Magnesium	7439-95-4	6010C	20.00	mg/Kg
Manganese	7439-96-5	6010C	0.20	mg/Kg
Mercury	7439-97-6	7471B	0.02	mg/Kg
Nickel	7440-02-0	6010C	5.00	mg/Kg
Potassium	7440-09-7	6010C	80.00	mg/Kg
Selenium	7782-49-2	6010C	4.00	mg/Kg
Silver	7440-22-4	6010C	0.60	mg/Kg
Sodium	7440-23-5	6010C	140.00	mg/Kg
Thallium	7440-28-0	6010C	6.00	mg/Kg
Vanadium	7440-62-2	6010C	0.50	mg/Kg
Zinc	7440-66-6	6010C	2	mg/Kg
Volatile Organic Compound (VOCs)				
1,1,1,2-Tetrachloroethane	630-20-6	8260C	5.00	ug/Kg
1,1,1-Trichloroethane	71-55-6	8260C	5.00	ug/Kg
1,1,2,2-Tetrachloroethane	79-34-5	8260C	5.00	ug/Kg
1,1,2-Trichloroethane	79-00-5	8260C	5.00	ug/Kg
1,1-Dichloroethane	75-34-3	8260C	5.00	ug/Kg
1,1-Dichloroethene	75-35-4	8260C	5.00	ug/Kg
1,2,3-Trichloropropane	96-18-4	8260C	5.00	ug/Kg
1,2-Dibromo-3-Chloropropane	96-12-8	8260C	5.00	ug/Kg
1,2-Dichlorobenzene	95-50-1	8260C	5.00	ug/Kg
1,2-Dichloroethane	107-06-2	8260C	5.00	ug/Kg
1,2-Dichloropropane	78-87-5	8260C	5.00	ug/Kg
1,4-Dichlorobenzene	106-46-7	8260C	5.00	ug/Kg
2-Hexanone	591-78-6	8260C	25.00	ug/Kg
Acetone	67-64-1	8260C	25.00	ug/Kg
Acrylonitrile	107-13-1	8260C	25.00	ug/Kg
Benzene	71-43-2	8260C	5.00	ug/Kg
Bromoform	75-25-2	8260C	5.00	ug/Kg
Bromomethane	74-83-9	8260C	5.00	ug/Kg
Carbon disulfide	75-15-0	8260C	5.00	ug/Kg
Carbon tetrachloride	56-23-5	8260C	5.00	ug/Kg
Chlorobenzene	108-90-7	8260C	5.00	ug/Kg
Bromochloromethane	74-97-5	8260C	5.00	ug/Kg
Dibromochloromethane	124-48-1	8260C	5.00	ug/Kg
Chloroethane	75-00-3	8260C	5.00	ug/Kg
Chloroform	67-66-3	8260C	5.00	ug/Kg
Chloromethane	74-87-3	8260C	5.00	ug/Kg

**TABLE 2D
SEDIMENT BASELINE AND ROUTINE PARAMETERS**

Mill Seat Landfill
Town of Riga, New York

Parameters ⁽¹⁾	CAS RN	Method	PQL	units
cis-1,2-Dichloroethene	156-59-2	8260C	5.00	ug/Kg
cis-1,3-Dichloropropene	10061-01-5	8260C	5.00	ug/Kg
Dibromomethane	74-95-3	8260C	5.00	ug/Kg
Bromodichloromethane	75-27-4	8260C	5.00	ug/Kg
Ethylbenzene	100-41-4	8260C	5.00	ug/Kg
1,2-Dibromoethane	106-93-4	8260C	5.00	ug/Kg
2-Butanone	78-93-3	8260C	25.00	ug/Kg
4-Methyl-2-pentanone	108-10-1	8260C	25.00	ug/Kg
Methylene Chloride	75-09-2	8260C	5.00	ug/Kg
Styrene	100-42-5	8260C	5.00	ug/Kg
Tetrachloroethene	127-18-4	8260C	5.00	ug/Kg
Toluene	108-88-3	8260C	5.00	ug/Kg
trans-1,2-Dichloroethene	156-60-5	8260C	5.00	ug/Kg
trans-1,3-Dichloropropene	10061-02-6	8260C	5.00	ug/Kg
trans-1,4-Dichloro-2-butene	110-57-6	8260C	5.00	ug/Kg
Trichloroethene	79-01-6	8260C	5.00	ug/Kg
Trichlorofluoromethane	75-69-4	8260C	5.00	ug/Kg
Vinyl acetate	108-05-4	8260C	10.00	ug/Kg
Vinyl chloride	75-01-4	8260C	5.00	ug/Kg
Xylenes, Total	1330-20-7	8260C	10.00	ug/Kg

Notes:

⁽¹⁾ The following field parameters are also taken: static water levels (in wells and sumps), specific conductance, temperature, floaters or sinkers, pH, Eh, DO, field observations and turbidity.

Orange indicates Routine Parameters

CAS RN is the Chemical Abstract Number

Method is EPA method #

PQL is Practical Quantification Limit

ug/kg is micrograms per kilogram

mg/L is milligrams per kilogram

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
VOCs (USEPA Methods 5030B/8260C) ^{1,2}	Aqueous	2-40 milliliter glass vials with Teflon® septum	4°C pH<2 FC pH4-5 for Acrylonitrile*	7 days from collection for analysis for unpreserved. 14 days from collection for analysis for unpreserved.	One per 20 samples or one per matrix (for less than 20 samples)	1 ea. Per cooler with VOC samples	One per 20 samples or one per matrix (for less than 20 samples)
VOCs (USEPA Methods 50030B/8260C) ^{1,2}	Solids	5 grams of sample in 2-40 milliliter pre-weighed and post-weighed glass vials with Teflon® septum containing stir bar and sodium bisulfate preservative	4°C	14 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	1 ea. per cooler with VOC samples	One per 20 samples or one per matrix (for less than 20 samples)
SVOCs and Orthophosphorus pesticides (USEPA Methods 3510C/3520C/8270D) ^{1,2}	Aqueous	1-one liter amber glass container with Teflon® lined screw caps	4°C	7 days from collection to extraction; 40 days from extraction to analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
SVOCs and Orthophosphorus pesticides (USEPA Methods 3510C/3520C/8270D) ^{1,2}	Solids	250 milliliter wide mouth glass container with Teflon® lined lid 100 grams sample volume required	4°C	14 days from collection to extraction; 40 days from extraction to analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Organochlorine Pesticides (USEPA Methods 3510C/3520C/8081B) ^{1,2}	Aqueous	1-one liter amber glass container with Teflon® lined screw caps	4°C	7 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Organochlorine Pesticides (USEPA Methods 3510C/3520C/8081B) ^{1,2}	Solids	250 milliliter wide mouth glass container with Teflon® lined lid 250 grams sample volume required	4°C	14 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
PCBs (USEPA Methods 3510C/3520C/8082A) ^{1,2}	Aqueous	1-one liter amber glass container with Teflon® lined screw caps	4°C	7 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
PCBs (USEPA Methods 3541/3550B/8082A) ^{1,2}	Solid	250 milliliter wide mouth glass container with Teflon® lined lid 100 grams sample volume required	4°C	14 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Herbicides (USEPA Methods 3510C/3520C/8151A) ^{1,2}	Aqueous	1-one liter amber glass container with Teflon® lined screw caps	4°C	7 days from collection to extraction; 40 days from extraction to analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Metals (USEPA Methods 3005A/6010C) ^{1,2}	Aqueous	1-1000 milliliter polyethylene or fluorocarbon (TFE or PFA) container. 500 milliliters sample volume	HNO ₃ to pH<2, 4°C	180 days from collection for analysis	One per 10 samples or one per matrix (for less than 10 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Mercury (USEPA Method 7470A) ^{1,2}	Aqueous	1-1000 milliliter polyethylene or fluorocarbon (TFE or PFA) container. 500 milliliters sample volume required.	HNO ₃ to pH<2, 4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
Metals (USEPA Methods 3050B/6010C) ^{1,2}	Solids	4 ounce wide mouth polyethylene or fluorocarbon (TFE or PFA) container. 50 grams sample volume required.	4°C	180 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Mercury (USEPA Method 7471B) ^{1,2}	Solids	4 ounce wide mouth polyethylene or fluorocarbon (TFE or PFA) container. 50 grams sample volume required.	4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
Cyanide (USEPA Methods 9010B/9012B) ^{1,2}	Aqueous	1-500 milliliter plastic bottle. 100 milliliters sample volume	NaOH to pH>12, 4°C OA	14 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Cyanide (USEPA Methods 9010B/9012B) ^{1,2}	Solids	4 ounce wide mouth glass container with Teflon® lined lid	4°C	14 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Hexavalent chromium (USEPA Method 7196A) ^{1,2}	Aqueous	1-250 or 500 milliliter plastic bottle	4°C	24 hours from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Hexavalent chromium (USEPA Method 3060A/7196A) ^{1,2}	Solids	4 ounce wide mouth glass container with Teflon® lined lid	4°C	7 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Total Alkalinity (USEPA Method 310.1) ^{1,3}	Aqueous	1-250 or 500 milliliter plastic bottle, headspace free	4°C	14 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
Ammonia nitrogen (USEPA Method 350.1) ^{1,3}	Aqueous	4 ounce wide mouth glass container with Teflon® lined lid. 50 grams sample volume required.	H ₂ SO ₄ to pH<2, 4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Bromide, Chloride, Sulfate (USEPA Method 300.0) ⁴	Aqueous	1-500 milliliter plastic bottle. 200 milliliters sample volume	4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Nitrate (USEPA Method 3000.0) ⁴	Aqueous	1-500 milliliter plastic bottle. 200 milliliters sample volume	4°C	48 hours from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Total Rec. Phenol (USEPA Method 420.2) ^{1,3}	Aqueous	1-250 or 500 milliliter glass bottle	H ₂ SO ₄ to pH<2, 4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
TOC (USEPA Method 415.1) ^{1,3}	Aqueous	1-250 or 500 milliliter plastic bottle	H ₂ SO ₄ to pH<2, 4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
BOD (USEPA Method 405.1) ^{1,3}	Aqueous	1-250 or 500 milliliter plastic bottle	4°C	48 hours from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
COD (USEPA Method 410.4) ^{1,3}	Aqueous	1-250 or 500 milliliter plastic bottle	H ₂ SO ₄ to pH<2, 4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
Color (USEPA Method 110.2) ^{1,3}	Aqueous	1-250 or 500 milliliter plastic bottle	4°C	48 hours from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
TDS (USEPA Method 160.1) ^{1,3}	Aqueous	1-250 or 500 milliliter plastic bottle	4°C	7 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

TABLE 3
LABORATORY METHODS, BOTTLE, PRESERVATIVE AND HOLDING TIMES
 Mill Seat Landfill
 Town of Riga, New York

Parameter (method)	Matrix	Sample containers and volumes	Preservation	Extraction and Analysis Holding times	QC Sample Frequency		
					Field duplicate	Trip blank	MS/MSD /Spike Duplicate*
Hardness (USEPA Method 130.2) ^{1,3}	Aqueous	1-250 or 500 milliliter polyethylene bottle	HNO ₃ to pH <2, 4°C	6 months	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)
TKN (USEPA Method 351.2) ^{1,3}	Aqueous	1-500 milliliter plastic bottle	H ₂ SO ₄ to pH <2, 4°C	28 days from collection for analysis	One per 20 samples or one per matrix (for less than 20 samples)	NA	One per 20 samples or one per matrix (for less than 20 samples)

NOTES:

*MS/MSD indicates matrix spike/matrix spike duplicate sample for organic analyses. Spike duplicate is performed for inorganic analyses.

FC indicates that if free chlorine is present in samples, it must be removed by the appropriate addition of Na₂S₂O₃ or ascorbic acid

OA indicates that if oxidizing agents are present, add 5 ml 0.1N NaAsO₂ per liter and 0.6g of ascorbic acid per liter.

1- New York State Department of Environmental Conservation (NYSDEC). 2004. *Analytical Services Protocol*. Albany, N.Y.

2- United States Environmental Protection Agency (USEPA). 2004. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846, 3rd Edition*, Update IV. Washington D.C.

3- United States Environmental Protection Agency (USEPA). 1983. *Methods for Chemical Analysis of Water and Wastes*, Cincinnati, Ohio.

4- United States Environmental Protection Agency (USEPA). 1993a. *Methods for the Determination of Inorganic Substances in Environmental Samples*, EPA-600/R-93/100. Washington, D.C.

C -degrees Celsius

NA- not applicable

VOCs indicates volatile organic compounds

SVOCs indicates semi volatile organic compounds

PCBs indicates polychlorinated biphenyls

BOD indicates biological oxygen demand

COD indicates chemical oxygen demand

TDS indicates total dissolved solids

TOC indicates total organic carbon

TKN indicates total kjeldahl nitrogen

A temperature blank will be submitted with each sample cooler.