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Spring 2017
Baseline Semi-Annual Monitoring Event
Water Quality Monitoring Report

Location:

Ischua Landfill
Olean, New York
(NYSDEC Facility ID #05S20)

Prepared for:

City of Olean
101 East State Street
P.O. Box 668
Olean, New York 14760

LaBella Project No. 2160974

July 2017

Ischua Landfill
Olean, New York
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Spring 2017
Semi-Annual Monitoring Baseline Event
Water Quality Monitoring Report

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1.0 INTRODUCTION

LaBella Associates, D.P.C (LaBella) was retained by the City of Olean to provide sampling, analysis, and reporting services associated with water quality monitoring at the closed Ischua Landfill (site). Groundwater monitoring is conducted at the site in accordance with Order on Consent 89-92 issued by the New York State Department of Environmental Conservation (NYSDEC) and the December 1990 Sampling and Analysis Plan (SAP) with subsequent modifications in 1991 and 1995. These modifications, as well as other modifications to the SAP, are discussed in detail in Section 2.0.

This report presents the results of the Spring 2017 Baseline Semi-Annual Monitoring Event conducted for twelve monitoring wells and two surface water points at the site. This report provides a brief discussion of the relevant background information, describes the sample collection procedures, presents the analytical results, and provides a summary and conclusions for the work conducted.

2.0 BACKGROUND INFORMATION

The Ischua Landfill is located near the Olean municipal airport in the Town of Ischua, New York, as shown on Figure 1. The landfill consists of three parallel trenches approximately 15 feet deep and 50 feet wide that range from 800 feet to 1,300 feet in length (see Figure 2). The landfill operated from 1972 to 1975. When the landfill was closed, the landfill cover consisted of approximately six inches of topsoil. In an effort to control seeps, the landfill cover was improved with 18 inches of compacted clay and six inches of topsoil, as reported in January 1986. The improved cover reduced the seepage volume but did not completely eliminate the seeps.

In response to renewed concerns by the NYSDEC regarding the seeps, a hydrogeologic investigation program was performed at the site from November 1989 through March 1990. Subsequently, the City developed an appropriate course of action for controlling the seepage breakouts. As required by the NYSDEC, the City also initiated a program of quarterly monitoring at the site in September 1990. The samples were analyzed for the Title 6 New York Codes, Rules and Regulations (6NYCRR) Part 360-2.11(d)(6) Baseline Parameters plus volatile organic compounds (VOCs). Following submission of the Baseline Sampling Report, a SAP dated December 4, 1990 was issued for the continued quarterly groundwater monitoring at the landfill site. The SAP was approved by the NYSDEC in a letter dated December 12, 1990. The quarterly sampling at the site continued in accordance with the approved SAP from September 1990 to September 1991.

In the September 1991 Baseline Sampling Report, several modifications to the approved SAP were recommended. These proposed modifications were as follows:

a. The site's contingency water quality monitoring requirements of quarterly analysis for VOCs was proposed to be removed from the SAP and replaced by the standard routine and baseline analysis program which would have required VOC analysis only during the annual baseline sampling event.
b. Six sampling points were proposed to be removed from the SAP. These sampling points had primarily been either dry during previous sampling events or had not resulted in elevated levels of analytes of concern. These points were: MW-6B, MW-7C, MW-8A, MW-9A, MW-10A, and MW-11A.
c. The tabular listing of current and past sampling results in the quarterly and the annual reports was proposed to be replaced with time/concentration plots of selected parameters.

Items b and c of the proposed modifications were later approved by the NYSDEC. With respect to Item a, the NYSDEC did not agree with elimination of the site's contingency water quality requirements but approved a reduction in the frequency of sampling for VOCs from quarterly to semi-annually.

After the submittal of the June 1994 Quarterly Report, it was requested that the current time/concentration plots of selected parameters be replaced with tabular historical data tables from each monitoring point. This request was approved by the NYSDEC.

Furthermore, it was requested in November 1995 that the sampling frequency for all parameters at the site be reduced from quarterly to semi-annually, based upon a statistical evaluation of the previous five years of groundwater monitoring data. The statistical evaluation of the site data revealed that total VOC concentrations for all sampling points had remained constant or decreased with time. The NYSDEC agreed with the request in 1996.

3.0 SAMPLE COLLECTION PROCEDURES

3.1 General Discussion

LaBella performed the Spring 2017 Monitoring Event sampling activities on March 23 and 24, 2017. All sampling activities were completed in general accordance with the approved SAP dated December 4, 1990 and subsequent NYSDEC-approved modifications. All samples collected from the site were analyzed for the 6NYCRR Part 360-2.11(d)(6) Baseline Parameters. However, MW-6A was dry, precluding sample collection from this location.

The sample locations for the monitoring wells and the surface water samples are shown on Figure 2. The following paragraphs describe the sample collection procedures and field documentation protocols that were followed.

3.2 Groundwater Sample Collection Procedures

Purging and sampling of the monitoring wells were performed utilizing dedicated disposable polyethylene bailers, and non-absorbent nylon rope was used to lower the bailers into the wells.

Prior to purging, the depth to water in the well was measured to the nearest $1/100^{th}$ of a foot using an electronic water level indicator. As detailed in the approved SAP, purging is performed in an attempt to obtain a turbidity value of under 50 NTUs prior to sampling. If the turbidity value is greater than 50 NTUs, a filtered metals sample must be collected. The turbidity values recorded during this monitoring event were below 50 NTUs at the time of sample collection for each location. It should be noted that due to insufficient water volume turbidity levels were not measured at the time of the sample collection in MW-9B. Turbidity levels in MW-9B recorded during purging were recorded below 50 NTU.

The monitoring wells were purged a minimum of three well volumes or until dry. In general, purging was intended to be performed such that the water level in the well would not fall below the top of the sandpack. However, because the static water level in some of the wells was below the top of the sandpack, this criterion was not always achieved. Table 1 lists the depth of each monitoring well in addition to the elevation of groundwater in each well. Field Sampling Logs are presented in Appendix A.

After purging, groundwater samples were collected from each well (with the exception of the wells that were dry, which is discussed in Section 3.4) at the site and placed in laboratory-prepared sample

containers. The sample containers were then placed in insulated coolers filled with ice and transported under proper chain-of-custody procedures by courier directly to the analytical laboratory, Pace Analytical Services (Pace), in Melville, New York.

3.3 Surface Water Sample Collection Procedures

Two surface water samples (STREAM and SEEP), are typically collected during each semi-annual sampling event. These sample locations are shown on Figure 2. The SEEP and STREAM samples were collected by direct submersion of a dedicated unpreserved sample bottle into the surface water. A dedicated, unpreserved sampling bottle was used to collect the surface water samples from these locations in order to fill sample bottles containing preservatives. Care was taken to not disturb the sediment during sample collection. The filled sample bottles were transported to the laboratory under chain-of-custody using the procedures described in Section 3.6.

3.4 Field Parameter Measurements

Field parameters including pH, specific conductance, oxidation reduction potential (ORP), temperature, and turbidity were measured for each sample point and the results were recorded on the field sampling logs presented in Appendix A. Due to insufficient water volume, field parameters were not measured for MW-6A and MW-9B. A summary of the field parameters by sample point is included in Table 2.

3.5 Quality Assurance/Quality Control

For quality assurance/quality control purposes, a blind field duplicate sample and trip blank were collected and analyzed. The blind field duplicate was collected from MW-10B and analyzed for Baseline Parameters. The trip blank was analyzed for Baseline VOCs. The blind field duplicate sample was designated as "DUPLICATE" and the trip blank was designated as "TRIP BLANK" on the chain-of-custody form and in the laboratory report from Pace.

3.6 Shipping and Chain-of-Custody

Sample containers were labeled in the field, placed on ice, and shipped by courier using properly signed seals to Pace under chain-of-custody protocols. The samples were relinquished to the courier provided by Pace the day of sample collection. Appendix B presents the completed chain-of-custody records for this semi-annual monitoring event.

3.7 Health and Safety

Sample personnel wore Level D personal protective equipment including nitrile gloves during well purging and sampling activities. No health and safety concerns were noted during sampling.

4.0 DATA VALIDATION

4.1 Data Validation

Data validation consisted of an internal validation by Pace. The internal data validation performed by Pace focused on holding times, calibration criteria, method blanks, reference samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and surrogate recoveries. The results of these efforts are presented in the Pace Analytical Report included in Appendix C. The internal validation showed that the analytical results generated during this semi-annual monitoring event are generally usable in all cases. Only minor QA/QC issues were identified and do not impact the usability of the data for the Spring 2017 Monitoring Event.

4.2 Quality Assurance/Quality Control

4.2.1 Duplicate

The sample designated "DUPLICATE" is a duplicate of the MW-10B sample. The duplicate results are generally consistent (within 1.5 times) with the sample results with the following exceptions.

- Iron was detected in MW-10B at a concentration more than two times the concentration detected in the DUPLICATE.
- Zinc was detected in MW-10B at a concentration more than two times the concentration detected in the DUPLICATE.

4.2.2 Trip Blank

The laboratory analytical results for the TRIP BLANK sample were not detected for all VOC parameters.

5.0 ANALYTICAL RESULTS

5.1 General Discussion

Table 3 summarizes the results for each of the groundwater samples collected from the site. Results that are shaded in Table 3 are reported at or above regulatory levels for groundwater established in 6NYCRR Part 703.5 Water Quality Regulations for Groundwater (6NYCRR standards) as amended in April 1999. For parameters for which a standard was not adopted, the guidance values presented in the NYSDEC June 1998 Technical and Operations Guidance Series (TOGS) 1.1.1 were utilized. The following sections briefly describe this event's analytical results with respect to the above-mentioned water quality standards.

Additionally, although the SEEP and STREAM data have also been compared to the 6NYCRR groundwater standards, the comparison was made for purpose of continuity only; the 6NYCRR groundwater standards are not technically applicable to these data. In addition, the duplicate sample is not discussed in the following section. Refer to Section 4.2.

5.2 Summary of Results

5.2.1 Volatile Organic Compound Results

The analytical results for the Spring 2017 Monitoring Event are summarized in Table 3. No VOCs were detected above the applicable water quality standards in the samples collected from MW-6D, MW-7C, MW-9B, MW-13, MW-14, and STREAM. The VOC concentrations that exceeded the applicable water quality standards are summarized below:

- *Benzene* was reported above the 6NYCRR standard of 1.0 µg/L in three samples (MW-8B, MW-12A and MW-12B): at concentrations of 1.6 µg/L, 7.2 µg/L and 6.7 µg/L, respectively.
- *Chlorobenzene* was reported above the 6NYCRR standard of 5.0 µg/L in two samples (MW-12A and MW-12B): at concentrations of 11.2 µg/L and 9.7 µg/L, respectively.
- *Dichlorodifluoromethane* was reported above the 6 NYCRR standard of 5.0 µg/L in seven samples (MW-7A, MW-8B, MW-10B, MW-11B, MW-12A, MW-12B and SEEP): at concentrations ranging from 7.2 µg/L to 22.7 µg/L.
- *1,1-Dichloroethane* was reported above the 6NYCRR standard of 5.0 µg/L in one sample (MW-10B): at a concentration of 11.5 µg/L.
- *cis-1,2-Dichloroethene* was reported above the 6NYCRR standard of 5.0 µg/L in three samples (MW-8B, MW-10B and SEEP): at concentrations of 5.8 µg/L, 35.2 µg/L and of 6.3 µg/L, respectively.
- *Vinyl chloride* was reported above the 6 NYCRR standard of 2.0 µg/L in four samples (MW-8B, MW-10B, MW-12A and MW-12B): at concentrations ranging from 2.8 µg/L to 4.9 µg/L.

Dichlorodifluoromethane in MW-7A, MW-8B, MW-11B, MW-12A, MW-12B and SEEP was detected at concentrations representing historical maximums. Dichlorodifluoromethane was identified as a tentatively identified compound in the laboratory analytical report and is not included on the NYSDEC Part 360 Baseline Parameter list. Review of historical data revealed Dichlorodifluoromethane is generally not detected or detected at low concentrations below the groundwater standard. LaBella will continue to monitor this parameter in these locations during future sampling events. The remaining VOCs were detected at concentrations within historical ranges.

5.2.2 Inorganic Parameters

With the exception of the results discussed below, the concentrations of inorganic analytes were reported below applicable regulatory values.

- *Arsenic* was reported above the 6NYCRR standard of 0.025 mg/L in one sample (MW-12A) with an exceedance of 0.0557 mg/L.
- *Barium* was reported above the 6NYCRR standard of 1.0 mg/L in one sample (MW-12A) with an exceedance of 1.78 mg/L.
- *Iron* was reported above the 6NYCRR standard of 0.3 mg/L in eight samples (MW-6D, MW-7A, MW-8B, MW-11B, MW-12A, MW-12B, SEEP and STREAM): exceedances ranged in concentration from 0.723 mg/L to 42.4 mg/L.

- *Manganese* was reported above the 6NYCRR standard of 0.3 mg/L in eight samples (MW-7A, MW-7C, MW-8B, MW-10B, MW-11B, MW-12A, MW-12B and SEEP): exceedances ranged in concentration from 0.32 mg/L to 16.4 mg/L.

Concentrations for these analytes were all within historical ranges.

5.2.3 Leachate Indicator Parameters

Leachate indicator parameters were reported below applicable 6NYCRR standards with the exception of the results discussed below.

- *Color* was reported above the 6NYCRR standard of 15 units in four samples (MW-7A, MW-12A, MW-12B and STREAM): at measurements ranging from 15 units to 25 units.
- *Ammonia-Nitrogen* was reported above the 6NYCRR standard of 2.0 mg/L in four samples (MW-11B, MW-12A, MW-12B and SEEP): at concentrations ranging from 2.1 mg/L to 7.0 mg/L.
- *Total phenols* were reported above the 6NYCRR standard of 0.001 mg/L in twelve samples (MW-6D, MW-7A, MW-7C, MW-8B, MW-9B, MW-10B, MW-11B, MW-12A, MW-12B, MW-13, SEEP and STREAM): at concentrations ranging from 0.0015 mg/L to 0.047 mg/L.

Concentrations for these analytes were all within historical ranges.

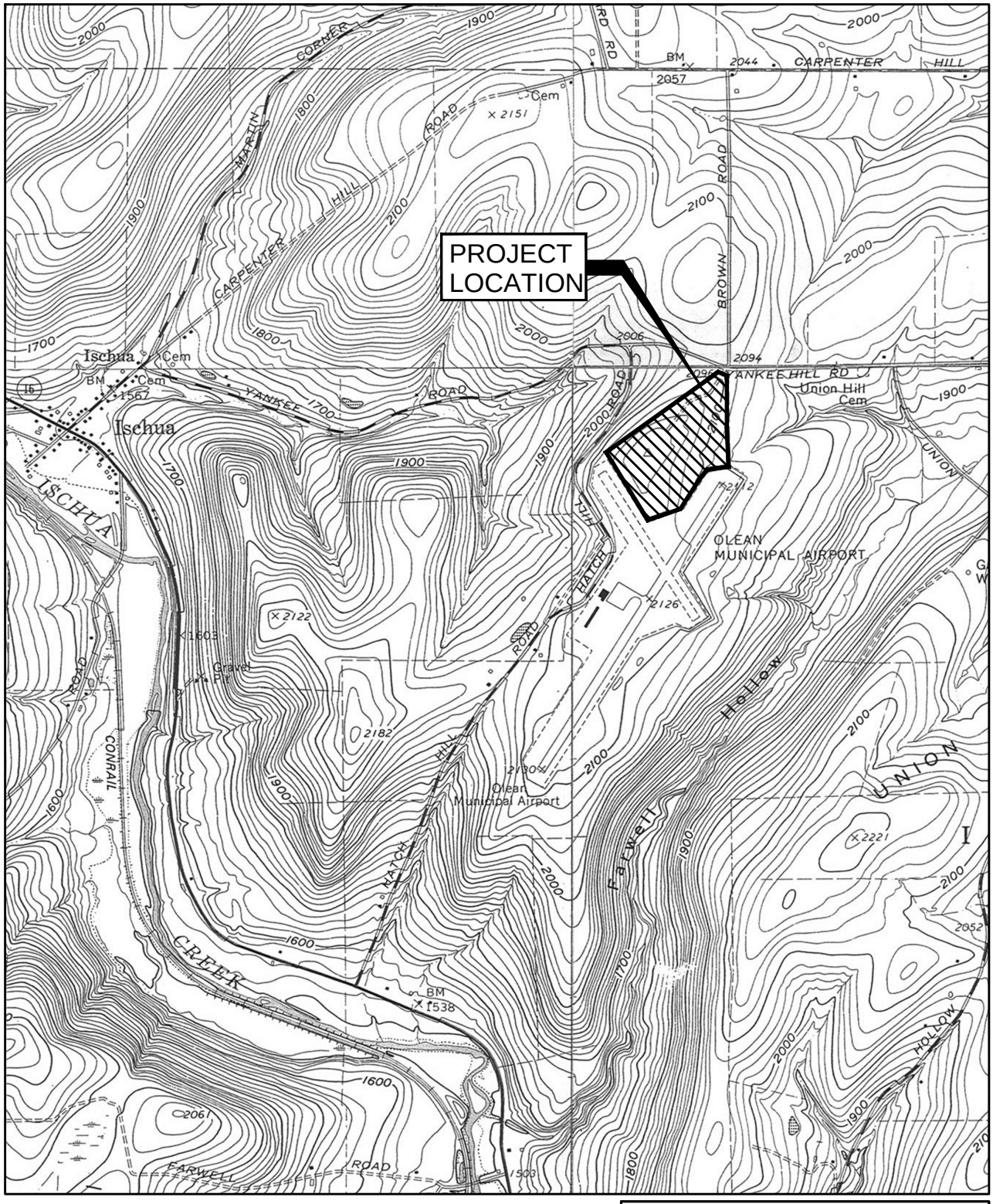
5.2.4 Comparison of Sampling Results

A tabular listing of the historical data associated with the permanent monitoring network is presented in Appendix D and includes historical data from September 1990 to the present for all monitoring points at the site. Included on each table is a mean concentration and current 6NYCRR groundwater standard for all analytes (both organic and inorganic) at each monitoring point.

6.0 SUMMARY AND CONCLUSIONS

The results of the Spring 2017 Monitoring Event appear generally consistent with the results from the previous sampling events at the site. The next semi-annual sampling event is scheduled for the Fall of 2017.

FIGURES



ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

State Route

USGS QUADRANGLES – CUBA, FRANKLINVILLE, HINSDALE AND RAWSON, NEW YORK

GRAPHIC SCALE

2000 0 1000 2000

(IN FEET)

1 inch = 2000 ft.

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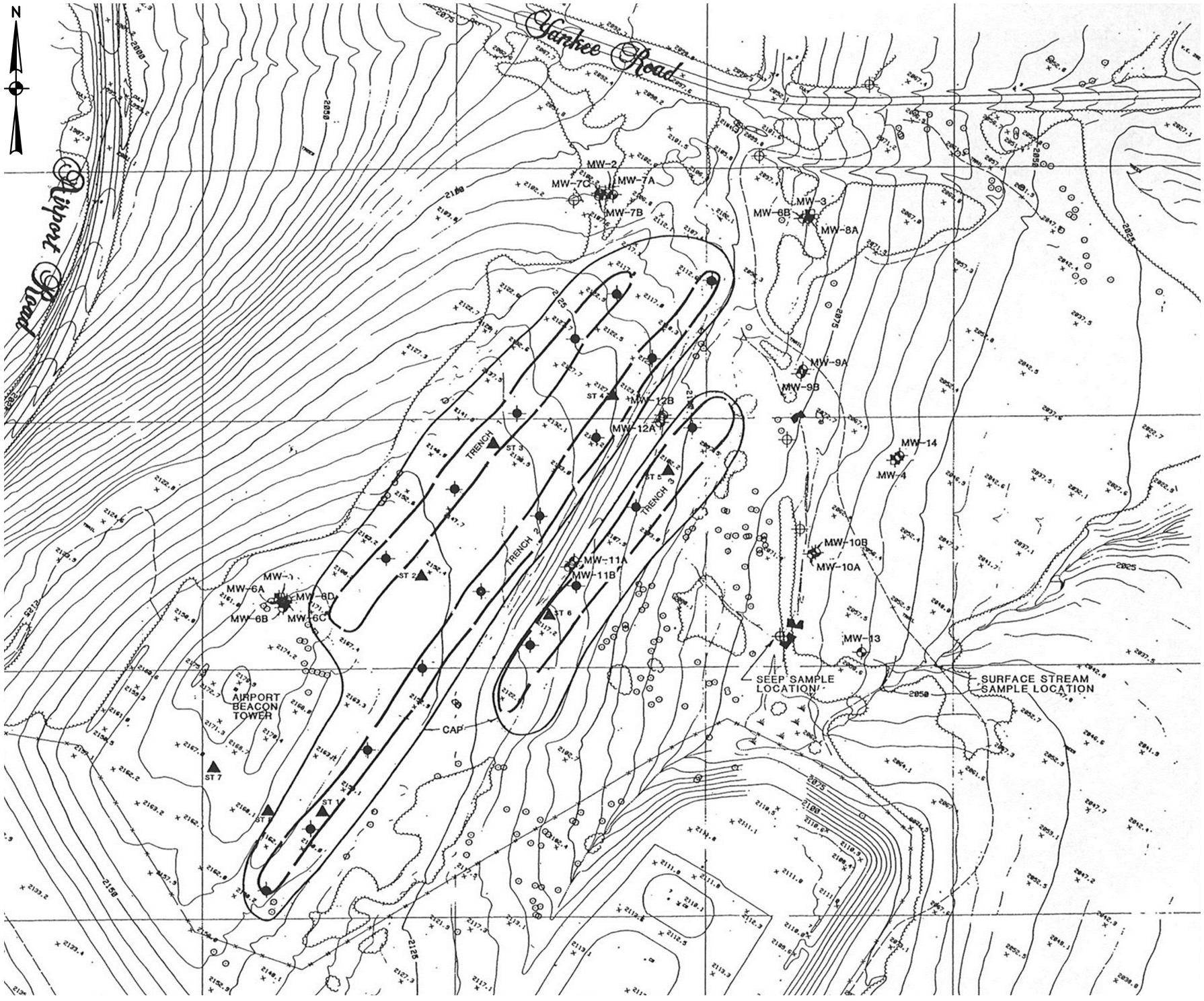
ISCHUA LANDFILL

FIGURE 1

SITE LOCATION MAP



LEGEND

- MONITORING WELL (URS)
- MONITORING WELL (EIL)
- SEEP
- GAS WELL
- CLAY CAP (APPROXIMATE)
- TRENCH (APPROXIMATE)
- SHELBY TUBE SOIL SAMPLE LOCATION
- WEIR

200 0 100 200

1 inch = 200 ft.

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FIGURE 2

SITE BASE MAP AND ENVIRONMENTAL MONITORING LOCATIONS

File: A:\KHEOPS Architecture\216014?? - Ischua Landfill Fall Monitoring\Reports\Fall 2015\Figure 2 Site Map.DWG, Plot Date: 1/6/2016, By: BENKLEMAN, ANDREW, Plot Style: LABELLA.CTB

TABLES

Ischua Landfill
Spring 2017
Summary of Monitoring Well and Groundwater Depths

TABLE 1

Monitoring Well No.	Top of Casing Elevation	Depth to Well Bottom	Historical Elevations		Depth to Water	Elevation of Water	Compared to Last Event	Compared to Last Year
			May-16	Oct-16	Mar-17	Mar-17		
MW-6A	2173.1	17.19	NA	NA	NA	NA	NA	NA
MW-6D	2173.7	103.14	NA	NA	92.02	2081.68	NA	NA
MW-7A	2109.3	11.64	2103.1	2097.84	4.11	2105.19	7.35	2.09
MW-7C	2109.3	40.3	2079.20	2071.63	29.96	2079.34	7.71	0.14
MW-8B	2089.6	28.65	2075.75	2070.9	13.95	2075.65	4.75	-0.10
MW-9B	2081.1	32.44	2049.81	2049.20	31.28	2049.82	0.62	0.01
MW-10B	2066.2	33.63	2044.91	2040.48	20.53	2045.67	5.19	0.76
MW-11B	2115.1	18.06	2098.23	2098.2	12.94	2102.16	3.96	3.93
MW-12A	2108.3	12.68	2095.68	2095.75	9.59	2098.71	2.96	3.03
MW-12B	2107.5	20.9	2090.68	2088.45	11.87	2095.63	7.18	4.95
MW-13	2058.7	11.4	2055.04	2054	3.77	2054.93	0.93	-0.11
MW-14	2060.9	23.44	2045.25	2042.2	15.89	2045.01	2.81	-0.24

Notes:

1. All measurements are in feet and the elevations are referenced to NAVD88 based on USGS "Ischua 1964".
2. The depth to the bottom of the monitoring well as well as the depth to water is measure from the from top of the riser pipe prior to purging the wells.

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Ischua Landfill
Spring 2017
Summary of Field Parameters

TABLE 2

DOWN - GRADIENT MONITORING LOCATIONS

	Units	MW 6A	MW 6D	MW 7A	MW 7C	MW 8B	MW 9B*	MW 10B	MW 11B	MW 12A	MW 12B	MW 13	MW 14	SEEP	STREAM	NYSDEC Part 703 Surface water and Groundwater Quality Standards	Units
Field Eh	mV	**	212.2	40.3	231.7	0.3	152.6	115.4	78.1	-17.0	-17.2	208.4	190.9	-2.5	187.5	NA	mV
Field pH	SU	**	7.69	6.54	7.46	**6.48**	7.12	**6.43**	6.58	**6.37**	**6.44**	7.07	7.72	**6.46**	7.42	6.5-8.5	SU
Field Specific Conductivity	mS/cm	**	0.599	0.520	0.591	0.502	0.440	0.507	0.161	0.786	0.839	0.348	0.415	0.447	0.155	NA	mS/cm
Field Turbidity	NTU	**	**11.7**	3.0	**24.7**	0.3	**14.8**	1.40	**6.2**	**12.4**	**6.60**	**6.30**	1.80	3.50	**13.6**	5	NTU
Temperature	degC	**	5.7	3.1	6.6	11.2	8.8	10.5	7.0	9.0	9.2	8.5	12.4	8.6	5.7	NA	degC
Dissolved Oxygen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	11.38	NA	mg/L

"-" = Indicates the parameter was not analyzed

* = Indicates field parameter measurements were collected during purging due to insufficient water during sample collection

** = Indicates field parameter measurements not collected due to insufficient water during sample collection

1.00 Value exceeds regulatory standard

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Ischua Landfill
Spring 2017
Groundwater and Surface Water Analysis Summary

TABLE 3

			MONITORING LOCATIONS																
Collection Date	CAS #	Units	MW 6A 3/22/2017	MW 6D 3/22/2017	MW 7A 3/22/2017	MW 7C 3/22/2017	MW 8B 3/22/2017	MW 9B 3/22/2017	MW 10B 3/22/2017	MW 11B 3/22/2017	MW 12A 3/22/2017	MW 12B 3/22/2017	MW 13 3/22/2017	MW 14 3/22/2017	SEEP [1] 3/22/2017	STREAM [1] 3/22/2017	Duplicate 3/22/2017	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units	
BOD5		mg/l	-	1.0	7.3	1.0	1.2	1.2	1.2	9.6	9.6	9.9	1.0	1.0	6.1	1.2	1.0	NA	mg/l	BOD5
Color		Units	-	5	**15**	5	10	10	10	10	**25**	**15**	5	10	10	**15**	10	15	Units	Color
Hexavalent Chromium	18540-29-9	mg/l	-	ND	ND	0.0033	ND	0.0099	0.0033	ND	ND	ND	0.0059	0.0086	0.0099	0.0072	ND	0.05	mg/l	Hexavalent Chromium
Nitrate-Nitrogen		mg/l	-	0.09	0.044	0.023	0.032	0.035	ND	0.046	0.065	0.052	0.066	0.086	0.11	0.28	0.0064	10	mg/l	Nitrate-Nitrogen
Alkalinity		mg/lCaCO3	-	294	287	314	266	200	267	179	380	539	170	243	217	60.2	299	NA	mg/lCaCO3	Alkalinity
Chloride		mg/l	-	4.1	5.0	7.5	4.7	5.9	12.5	6.4	10.5	11.4	6.3	2.7	7.9	2.7	12.4	250	mg/l	Chloride
COD		mg/l	-	50.5	50.5	15.1	23.4	17.2	13	62.9	75.4	48.4	17.2	13	46.3	23.4	13	NA	mg/l	COD
Ammonia-Nitrogen	7664-41-7	mg/l	-	0.026	1.8	0.028	0.86	0.026	0.19	**2.1**	**7.0**	**6.7**	0.032	0.024	**2.7**	0.1	0.19	2	mg/l	Ammonia-Nitrogen
Sulfate		mg/l	-	25.2	5.9	8.7	7.9	9.6	6.2	3.3	2.9	2.6	9.0	18.2	3.9	5.9	6.6	250	mg/l	Sulfate
Total Cyanide		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	mg/l	Total Cyanide
Total Dissolved Solids		mg/l	-	349	272	349	290	225	279	170	426	459	197	249	213	98	287	500	mg/l	Total Dissolved Solids
Total Kjeldahl Nitrogen		mg/l	-	0.35	2.4	0.21	1.6	0.27	0.36	3.8	8.2	6.4	0.17	0.14	3.3	0.48	0.32	NA	mg/l	Total Kjeldahl Nitrogen
TOC		mg/l	-	ND	7.0	ND	4.8	ND	ND	3.1	7.5	3.2	ND	0.085	6.3	ND	ND	NA	mg/l	TOC
Total Phenols		mg/l	-	**0.0041**	**0.0068**	**0.0031**	**0.0021**	**0.0031**	**0.0041**	**0.0099**	**0.0418**	**0.047**	**0.0015**	ND	**0.0151**	**0.0015**	ND	0.001	mg/l	Total Phenols
Aluminum		mg/l	-	0.367	0.0299	ND	ND	0.0563	0.0303	0.0369	0.0161	0.0157	0.026	ND	0.101	0.533	ND	NA	mg/l	Aluminum
Antimony by furnace method		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	mg/l	Antimony by furnace method
Arsenic by furnace method		mg/l	-	ND	0.01	ND	0.0144	ND	ND	0.0069	**0.0557**	0.0108	ND	ND	0.0164	ND	ND	0.025	mg/l	Arsenic by furnace method
Barium		mg/l	-	0.0513	0.760	0.0904	0.124	0.0204	0.0551	0.158	**1.78**	0.304	0.017	0.0415	0.150	0.0108	0.0518	1	mg/l	Barium
Beryllium		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	mg/l	Beryllium
Boron	7440-42-8	mg/l	-	0.0303	0.061	0.0166	0.0428	0.0097	0.0452	0.0125	0.118	0.110	0.0434	0.0215	0.0687	0.018	0.0457	1	mg/l	Boron
Cadmium		mg/l	-	ND	0.00008	ND	ND	ND	ND	ND	0.00057	ND	ND	ND	ND	ND	ND	0.005	mg/l	Cadmium
Calcium		mg/l	-	90.7	58.2	96.6	76.8	75.6	72.4	19.0	112	121	46.8	60.1	47.3	19.3	71.7	NA	mg/l	Calcium
Chromium		mg/l	-	ND	0.0059	ND	0.0017	ND	ND	0.003	0.0216	0.006	ND	ND	0.0066	ND	ND	0.05	mg/l	Chromium
Copper		mg/l	-	0.003	0.0025	0.0026	ND	ND	ND	ND	0.0041	ND	ND	ND	ND	ND	ND	0.2	mg/l	Copper
Iron		mg/l	-	**0.723**	**11.9**	0.0147	**4.17**	0.135	0.137	**5.9**	**42.4**	**12.3**	0.0907	ND	**13.4**	**0.963**	0.066	0.3	mg/l	Iron
Lead by furnace method		mg/l	-	0.0027	0.0034	0.0021	0.0017	ND	0.0016	0.0017	0.003	0.0015	ND	ND	0.0015	ND	ND	0.025	mg/l	Lead by furnace method
Magnesium		mg/l	-	24.7	11.7	15.4	11.2	10.6	22.4	5.69	14.3	22.8	13.0	15.0	13.9	5.46	22.3	35	mg/l	Magnesium
Manganese		mg/l	-	0.0242	**16.4**	**0.320**	**7.02**	0.118	**2.16**	**8.89**	**12.4**	**10.7**	0.171	0.0682	**10.9**	0.198	**2.04**	0.3	mg/l	Manganese
Mercury		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0007	mg/l	Mercury
Nickel		mg/l	-	0.0021	0.0125	0.0016	0.0052	0.0011	0.0036	0.0106	0.0055	0.0058	0.0021	ND	0.0059	0.0012	0.0036	0.1	mg/l	Nickel
Potassium		mg/l	-	2.71	21.6	2.04	3.51	2.04	2.59	2.12	6.74	6.3	ND	1.92	5.0	1.9	2.74	NA	mg/l	Potassium
Selenium by furnace method		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	mg/l	Selenium by furnace method
Silver		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	mg/l	Silver
Sodium		mg/l	-	3.81	4.71	8.48	7.13	5.89	8.22	3.11	10.4	11.8	10.7	9.93	6.59	3.18	7.32	20	mg/l	Sodium
Thallium by furnace method		mg/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0005	mg/l	Thallium by furnace method
Zinc		mg/l	-	0.0084	0.0097	0.0237	ND	0.0055	0.0039	0.977	0.024	0.0028	0.0143	0.0016	ND	0.0014	0.0017	2	mg/l	Zinc
Calculated Hardness		mg/l CaCO3	-	310	220	280	228	200	250	88	340	410	150	240	180	60	248	NA	mg/l CaCO3	Calculated Hardness
																		1.00		Value exceeds regulatory standard

"-" - Indictes the parameter was not analyzed

ND - Indicates the value is less than the method detection limit

1. Regulatory values are from the 6NYCRR PART 703.5 Water Quality Regulations for Groundwater as amended in April 1999. For parameters for which a standard is not adopted, the guidance values presented in the NYSDEC June 1998 Technical and Operational Guidance Series (TOGS) 1.1.1 were ultilized.

LABELLA Associates, D.P.C

Ischua Landfill
Spring 2017
Groundwater and Surface Water Analysis Summary

TABLE 3

			MONITORING LOCATIONS																
		Units	MW 6A	MW 6D	MW 7A	MW 7C	MW 8B	MW 9B	MW 10B	MW 11B	MW 12A	MW 12B	MW 13	MW 14	SEEP [1]	STREAM [1]	Duplicate	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units	
Acetone	67-64-1	ug/l	-	ND	ND	ND	1.4	ND	ND	ND	12.8	ND	ND	ND	ND	ND	ND	50.0	ug/l	Acetone
Acrylonitrile	107-13-1	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Acrylonitrile
Benzene	71-43-2	ug/l	-	ND	ND	ND	1.6	ND	ND	ND	7.2	6.7	ND	ND	ND	ND	ND	1.0	ug/l	Benzene
Bromobenzene	74-97-5	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	Bromobenzene
Bromochloromethane	75-27-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Bromochloromethane
Bromodichloromethane	75-25-2	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0	ug/l	Bromodichloromethane
Bromoform	75-15-0	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0	ug/l	Bromoform
Bromomethane	56-23-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Bromomethane
2-Butanone	108-90-7	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0	ug/l	2-Butanone
n-Butylbenzene	75-00-3	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	n-Butylbenzene
sec-Butylbenzene	67-66-3	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	sec-Butylbenzene
tert-Butylbenzene	124-48-1	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	tert-Butylbenzene
Carbon disulfide	96-12-8	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60.0	ug/l	Carbon disulfide
Carbon tetrachloride	106-96-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Carbon tetrachloride
Chlorobenzene	95-50-1	ug/l	-	ND	ND	ND	2.8	ND	ND	ND	11.2	9.7	ND	ND	ND	ND	ND	5.0	ug/l	Chlorobenzene
Chloroethane	106-45-	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Chloroethane
Chloroform		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ug/l	Chloroform
Chloromethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Chloromethane
2-Chlorotoluene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	2-Chlorotoluene
4-Chlorotoluene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	4-Chlorotoluene
Dibromochloromethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0	ug/l	Dibromochloromethane
1,2-Dibromo-3-chloropropane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	ug/l	1,2-Dibromo-3-chloropropane
1,2-Dibromoethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	1,2-Dibromoethane
Dibromomethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Dibromomethane
1,2-Dichlorobenzene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ug/l	1,2-Dichlorobenzene
1,3-Dichlorobenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	ug/l	1,3-Dichlorobenzene
1,4-Dichlorobenzene		ug/l	-	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ug/l	1,4-Dichlorobenzene
trans-1,4-Dichloro-2-butene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	trans-1,4-Dichloro-2-butene
Dichlorodifluoromethane		ug/l	-	-	9.7	-	9.1	-	8.4	8.6	18.6	22.7	-	-	7.2	-	7.6	5.0	ug/l	Dichlorodifluoromethane
1,1-Dichloroethane	110-57-6	ug/l	-	ND	ND	ND	1.1	ND	11.5	ND	ND	ND	ND	ND	ND	ND	11.5	5.0	ug/l	1,1-Dichloroethane
1,2-Dichloroethane	107-06-2	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ug/l	1,2-Dichloroethane
1,1-Dichloroethene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	1,1-Dichloroethene
cis-1,2-Dichloroethene		ug/l	-	ND	ND	ND	5.8	ND	35.2	ND	ND	ND	ND	ND	6.3	ND	34.6	5.0	ug/l	cis-1,2-Dichloroethene
trans-1,2-Dichloroethene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	trans-1,2-Dichloroethene
1,2-Dichloropropane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ug/l	1,2-Dichloropropane
1,3-Dichloropropane		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	1,3-Dichloropropane
2,2-Dichloropropane		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	2,2-Dichloropropane
1,1-Dichloropropene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	1,1-Dichloropropene
cis-1-3-Dichloropropene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ug/l	cis-1-3-Dichloropropene
trans-1,3-Dichloropropene	1006-01-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ug/l	trans-1,3-Dichloropropene
Ethylbenzene	100-41-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Ethylbenzene
2-Hexanone	591-78-6	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.0	ug/l	2-Hexanone
Hexachlorobutadiene	74-83-9	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	ug/l	Hexachlorobutadiene
Iodomethane	74-87-3	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Iodomethane
Isopropylbenzene	74-95-3	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	Isopropylbenzene
p-Isopropyltoluene	75-09-02	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	p-Isopropyltoluene
Methylene chloride	78-93-3	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Methylene chloride
4-Methyl-2-pentanone	108-10-1	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ug/l	4-Methyl-2-pentanone
Naphthalene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0	ug/l	Naphthalene
n-Propylbenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	n-Propylbenzene
Styrene	100-42-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Styrene
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	1,1,2,2-Tetrachloroethane
Tetrachloroethene	127-18-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Tetrachloroethene
Toluene	108-88-3	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Toluene
1,2,3-Trichlorobenzene	96-18-4	ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	1,2,4-Trichlorobenzene
1,1,1-Trichloroethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	1,1,1-Trichloroethane
1,1,2-Trichloroethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0	ug/l	1,1,2-Trichloroethane
Trichloroethene		ug/l	-	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Trichloroethene
Trichlorofluoromethane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Trichlorofluoromethane
1,2,3-Trichloropropane	96-18-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	ug/l	1,2,3-Trichloropropane
1,2,4-Trimethylbenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	ug/l	1,3,5-Trimethylbenzene
Vinyl acetate	108-05-4	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ug/l	Vinyl acetate
Vinyl chloride	75-01-4	ug/l	-	ND	ND	ND	2.8	ND	4.9	1.4	2.9	3.0	ND	ND	1.9	ND	4.9	2.0	ug/l	Vinyl chloride
o-Xylene	1330-20-7	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	o-Xylene
p-Xylene & m-Xylene	1330-20-7	ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	p-Xylene & m-Xylene

"-" - Indictes the parameter was not analyzed

ND - Indicates the value is less than the method detection limit

1.00 Value exceeds regulatory standard

APPENDIX A

FIELD SAMPLING LOGS

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-6A

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): 17.19 Water Level (ft): Dry Height of Water Column (ft): _____

1 Well Volume [WV] (gal): 0.16 3 WV (gal): _____ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other: _____

Purge X Field Parameters Start Time: _____

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0						
/ 1						
/ 2						
/ 3						

Total Volume Purged (gal): _____ Complete Time: _____ Water Level (ft): _____

Sampling Information: Date: **3/ /2017**

Sample Time: _____ Water Level(ft): _____ Sample Analysis: **Baseline Event / No. of Bottles:**

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics

Other Comments: This well typically does not contain much water and may not be enough for a full bottle set.

X Purger's / X Sampler's Name(s) and Initials ATB & ~~KEB~~

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-6D

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/23/2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

(Note: water measuring tape only goes to 101.2 feet)

Well Depth (ft): **103.14** Water Level (ft): 92.02 Height of Water Column (ft): 11.12

1 Well Volume [WV] (gal): 1.78 3 WV (gal): 5.34 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

Purge X **Field Parameters** **Start Time:**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	221.3	7.47	8.3	0.653	3.7	
1.8 / 1	220.6	7.43	8.3	0.664	83.7	
3.6 / 2	221.2	7.46	8.0	0.617	84.8	
5.4 / 3	234.3	7.58	7.6	0.622	61.6	

Total Volume Purged (gal): 5.4 Complete Time: 9:40 Water Level (ft):

Sampling Information: Date: 3/24 /2017

Sample Time: 8:00 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
213.2	7.69	5.7	0.599	11.7	

Other Comments:

X Purger's / X Sampler's Name(s) and Initials: ATB & KEB

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-7A

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/23/2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **11.64** Water Level (ft): 4.11 Height of Water Column (ft): 7.53

1 Well Volume [WV] (gal): 1.20 3 WV (gal): 3.6 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

Purge X Field Parameters **Start Time:** 950

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	101.4	6.20	3.4	0.450	25.7	
1.20 / 1	67.8	6.19	4.6	0.510	23.3	
2.40 / 2	40.4	6.29	4.5	0.518	47.4	
3.6 / 3	20.6	6.3	4.7	.526	42.0	

Total Volume Purged (gal): 3.6 Complete Time: 10:30 Water Level (ft):

Sampling Information: Date: 3/24/2017

Sample Time: 9:00 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
40.3	6.54	3.1	0.520	3.0	

Other Comments:

Replace bailer

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-7C

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/23/2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **40.30** Water Level (ft): 29.96 Height of Water Column (ft): 10.34

1 Well Volume [WV] (gal): 1.65 3 WV (gal): 4.95 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 950

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	234.5	7.23	7.7	0.602	5.9	
1.65 / 1	238.3	7.15	8.3	0.593	10.4	
3.3 / 2	239.6	7.22	8.2	0.606	15.3	
/ 3	dry @	4.00				

Total Volume Purged (gal): 4.0 Complete Time: 10:35 Water Level (ft):

Sampling Information: Date: 3/24/2017

Sample Time: 8:46 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
231.7	7.46	6.6	0.591	24.7	

Other Comments:
Must be given time to recover. Wait well

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-8B

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **25.65** Water Level (ft): 13.95 Height of Water Column (ft): 11.7

1 Well Volume [WV] (gal): 1.87 3 WV (gal): 5.61 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

Purge X Field Parameters **Start Time:** 2:30

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	23.3	6.51	8.3	0.463	154.4	
1.87 / 1	14.9	6.46	8.8	0.497	7.3	
3.74 / 2	12.3	6.52	8.5	0.498	4.4	
5.61 / 3	-6.0	6.56	8.5	0.504	3.2	

Total Volume Purged (gal): 5.61 Complete Time: 2:50 Water Level (ft):

Sampling Information: Date: 3/ 24 /2017

Sample Time: 2:45 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 39

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
0.3	6.48	11.2	0.502	0.3	

Other Comments:

MS/MSD

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-9B

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): ~~2~~ 1 [Volume Conversion = ~~0.16~~ 0.04]

Visible Well Damage/Comments: NONE

Well Depth (ft): **32.43** Water Level (ft): 31.28 Height of Water Column (ft): 1.15

1 Well Volume [WV] (gal): ~~.08~~ 0.05 3 WV (gal): 0.15 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other: ~~Peristaltic~~

Purge X Field Parameters **Start Time:** 1130

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	24.5	7.48	11.2	0.490	11.0	
.05 / 1	89.5	7.35	9.2	0.440	10.1	
.1 / 2	130.8	7.14	9.1	0.419	12.7	
.15 / 3	152.6	7.12	8.8	0.441	14.8	

Total Volume Purged (gal): 0.15 Complete Time: 1150 Water Level (ft): _____

Sampling Information: Date: 3/ 24 /2017

Sample Time: 1115 Water Level(ft): _____ Sample Analysis: **Baseline Event/No. of Bottles:** 11

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
Insignificant	volume				

Other Comments:

partial ~~NYS~~ TDS, SO4, ALK, CL, BR
~~[redacted]~~ No BOD, color

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-10B

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **33.69** Water Level (ft): 20.53 Height of Water Column (ft): 13.16

1 Well Volume [WV] (gal): 2.11 3 WV (gal): 6.33 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

Purge X Field Parameters **Start Time:** 12:30

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	226.4	6.58	12.2	0.461	1.8	
2.11 / 1	195.0	6.57	9.66	0.515	1.6	
4.22 / 2	125.2	6.40	9.2	0.523	1.6	
6.33 / 3	35.0	6.47	9.0	0.536	7.2	

Total Volume Purged (gal): 6.33 Complete Time: 1:30 Water Level (ft):

Sampling Information: Date: 3/24 /2017

Sample Time: 12:45 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
115.4	6.43	10.5	0.507	1.4	

Other Comments:

Duplicate

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-11B

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **18.07** Water Level (ft): 12.94 Height of Water Column (ft): 5.13

1 Well Volume [WV] (gal): 0.82 3 WV (gal): 2.46 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

Purge X **Field Parameters** **Start Time:**

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	57.5	6.02	8.6	0.193	35.4	
.82 / 1	68.5	6.05	8.2	0.184	212.0	
/ 2	Dry @ 1.0					
/ 3						

Total Volume Purged (gal): 1.0 Complete Time: 10:56 Water Level (ft):

Sampling Information: Date: 3/ 24 /2017

Sample Time: 9:45 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 12

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
78.1	6.58	7.0	0.161	6.2	

Other Comments:
Wait well. Should be Purged *well* before sampling.

Sulfur smell
Collected all except 1 TDS, SO4, ALK, Cl, BR

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-12A

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **12.68** Water Level (ft): 9.59 Height of Water Column (ft): 3.09

1 Well Volume [WV] (gal): 0.49 3 WV (gal): 1.47 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer X** / Other:

Purge X **Field Parameters** **Start Time:** 11:00

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	-29.6	6.26	7.7	0.856	15.9	
0.49 / 1	-37.6	6.45	6.7	0.872	46.6	
/ 2	dry	@0.6 GAL				
/ 3						

Total Volume Purged (gal): 0.6 Complete Time: 11:30 Water Level (ft):

Sampling Information: Date: 3/ 24 /2017

Sample Time: 10:15 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
-17.0	6.31	9.0	0.786	12.4	

Other Comments:
Wait well due to turbidity

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-12B

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/23/2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **20.90** Water Level (ft): 11.87 Height of Water Column (ft): 9.03

1 Well Volume [WV] (gal): 1.44 3 WV (gal): 4.32 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 11:00

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	-6.7	6.50	7.4	0.799	11.3	
1.44 / 1	-20.1	6.46	8.2	0.824	24.4	
2.88 / 2	-34.6	6.30	8.5	0.845	18.3	
4.32 / 3	-52.1	6.37	8.6	0.843	3.5	

Total Volume Purged (gal): 4.32 Complete Time: 11:24 Water Level (ft): _____

Sampling Information: Date: 3/24/2017

Sample Time: 10:25 Water Level(ft): _____ Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
-17.2	6.44	9.2	0.839	6.6	

Other Comments:

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-13

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **11.44** Water Level (ft): 3.77 Height of Water Column (ft): 7.67

1 Well Volume [WV] (gal): 1.23 3 WV (gal): 3.69 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 1:35

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	108.5	6.72	6.1	0.348	6.9	
1.23 / 1	138.2	6.67	5.9	0.347	15.9	
2.46 / 2	172.8	6.71	6.3	0.365	75.1	
/ 3	dry	@ 3gal				

Total Volume Purged (gal): 3.0 Complete Time: 1:51 Water Level (ft): _____

Sampling Information: Date: 3/ 24 /2017

Sample Time: 1:30 Water Level(ft): _____ Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
208.4	7.07	8.5	0.348	6.3	

Other Comments:
Requires some wait time after purging.

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: MW-14

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017- Baseline
Date: 3/ 23 /2017

Development / Purge Information: [All measurements to Top of Well Riser; Riser I.D. (in): 2 [Volume Conversion = 0.16]

Visible Well Damage/Comments: NONE

Well Depth (ft): **23.45** Water Level (ft): 15.89 Height of Water Column (ft): 7.56

1 Well Volume [WV] (gal): 1.21 3 WV (gal): 3.63 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 2:00

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	178.0	7.93	9.3	0.406	2.9	
1.21 / 1	186.5	8.12	8.7	0.407	7.7	
/ 2	Dry @ 1.6					
/ 3						

Total Volume Purged (gal): 1.6 Complete Time: 2:20 Water Level (ft):

Sampling Information: Date: 3/ 24 /2017

Sample Time: 2:00 Water Level(ft): Sample Analysis: **Baseline Event/No. of Bottles:** 12

Sampling Method : **Dedicated Bailer-** All / **Manual grab w/-** Sample Containers X ; S/S Pitcher

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
190.9	7.72	12.4	0.415	1.8	

Other Comments:
Wait well- very slow recharge rate. Must come back several times to obtain samples. Well casing is often full of bees.
Only 1 TDS, SO4, Alk, Cl, Br

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: STREAM

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: **3/ /2017**

Purge not required on this sample- Surface water

Sampling Information: Date: **3/** 24 **/2017**

Sample Time: 1:45 Water Level(ft):_____ Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All **/ Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics **[For SW & SEEP Only: D.O. =** 11.38 **mg/L]**
187.5	7.42	5.7	0.155	13.6	

Other Comments:

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

LABELLA Associates, D.P.C.

WELL DEVELOPMENT/ PURGE & SAMPLING LOG

WELL ID: SEEP

Project Name: Ischua Landfill [City of Olean]
Project Location: Airport Road, Town of Ischua, New York

Project No: 2160974
Sampling Event: Spring 2017 - Baseline
Date: **3/24 /2017**

Purge not required on this sample- Surface water

Sampling Information: Date: **3/24 /2017**

Sample Time: 12:30 Water Level(ft):_____ Sample Analysis: **Baseline Event/No. of Bottles:** 13

Sampling Method : **Dedicated Bailer-** All **/ Manual grab w/-** Sample Containers X ; S/S Pitcher ____

Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics **[For SW & SEEP Only: D.O. = _____ mg/L]**
-2.5	6.46	8.60	0.447	3.5	

Other Comments:

X Purger's / X Sampler's Name(s) and Initials: ATB & SD

APPENDIX B

CHAIN OF CUSTODY RECORDS

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complet

WO#: 7014155

7014155

Section A Required Client Information:

Company: LABELLA ASSOCIATES
Address: 300 PEARL ST.
BUFFALO NY 14202
Email To: ABENKLEMAN@LABELLAPC.COM
Phone: 716-551-0251 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: ANDREW BENKLEMAN
Copy To: ROB NAPIERALSKI
Purchase Order No.:
Project Name: 2160974
Project Number: ISCHUA LANDFILL

Section C Invoice Information:

Attention: ANDREW BENKLEMAN
Company Name: LABELLA ASSOCIATES
Address: 300 PEARL ST
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC - 8260	TOC	Cl+6	PHENOL	CN	TKN, NH3, COD, NO3	TDS, SO4, ALK, Cl, Br	BOD, COLOR	METALS, T-HARD	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-6D	WT	G	3/24/17		3/24/17	8:00		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	001
2	MW-7C	WT	G	3/24/17		3/24/17	8:45		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	002
3	MW-7A	WT	G	3/24/17		3/24/17	9:00		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	003
4	MW-11B	WT	G	3/24/17		3/24/17	9:45		12	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	Only 1 TDS, SO4, ALK, Cl, BR 004
5	MW-12A	WT	G	3/24/17		3/24/17	10:15		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	005
6	MW-12B	WT	G	3/24/17		3/24/17	10:25		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	006
7	MW-9	WT	G	3/24/17		3/24/17	11:15		11	X	X	X	X	X				Y	X	X	X	X	X	X	X		X	Partial TDS, SO4, ALK, Cl, Br 007
8	Seep	WT	G	3/24/17		3/24/17	12:30		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	008
9	MW-10B	WT	G	3/24/17		3/24/17	12:45		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	009
10	MW-13	WT	G	3/24/17		3/24/17	1:30		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	010
11	STREAM	WT	G	3/24/17		3/24/17	1:45		13	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	011
12	MW-14	WT	G	3/24/17		3/24/17	2:00		12	X	X	X	X	X				Y	X	X	X	X	X	X	X	X	X	Only 1 TDS SO4, ALK, CL BR 012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		3/24/17	1715	PACE	3/24/17	1715	
	PACE	3/24/17	1900	Jaclyn Pace	3/25/17	10:55	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 2115164

Section A — **Required** Client Information:

Company: LaBella Associates
Address: 300 Pearl St
Buffalo NY 14202
Email To: ABenKleman@Labellapc.com
Phone: 716-551-6288 Fax:
Requested Due Date/TAT:

Section B — **Required** Project Information:

Report To: Andrew BenKleman
Copy To: Bob Napieralski
Purchase Order No.:
Project Name: Ischua Landfill
Project Number: 2160974

Section C — Invoice Information:

Attention: Andrew BenKleman
Company Name: LaBella Associates
Address: 300 Pearl Street
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D — **Required** Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC-8260	TOC	CR+6	Phenol	CN	TKN, NH3, COD, NO3	TDS, SO4, Alk, Cl, Br	BOD, Color	T-Hard Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-8B	WT	G	3/24/17		3/24/17	2:45		39	X	X	X	X	X					X	X	X	X	X	X	X	X		MS/MSD 013
2	TRIP BLANK	WT	G						1				X						X									015
3	DUPLICATE	WT	G			3/24/17			13	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		014
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATE	DATE	TIME	SAMPLE CONDITIONS
		3/24/17	1715	PACE	3/24/17	1715	
	PACE	3/24/17	1900		3/25/17	10:35	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

APPENDIX C

LABORATORY REPORT

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

April 10, 2017

Andrew Benkleman
LaBella Associates
300 Pearl Street
Suite 130
Buffalo, NY 14201

RE: Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Dear Andrew Benkleman:
Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Aracri
jennifer.aracri@pacelabs.com
(631)694-3040
Project Manager

Enclosures

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

Pace Analytical Services, LLC
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(631)694-3040

SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7014155001	**MW-6D**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	50	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155002	**MW-7C**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	50	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155003	**MW-7A**	EPA 6010C	AKS	23	PACE-MV

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SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	51	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155004	**MW-11B**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	51	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155005	**MW-12A**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260C/5030C	BBL	52	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155006	**MW-12B**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	52	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155007	**MW-9B**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	50	PACE-MV

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SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155008	**SEED**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	51	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155009	**MW-10B**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	51	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155010	**MW-13**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	50	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	STH	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155011	**STREAM**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	50	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	JCA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155012	**MW-14**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	50	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	JCA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155013	**MW-8B**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	51	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV

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SAMPLE ANALYTE COUNT

Project: Ischua Landfill-SPRING 2017
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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	JCA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155014	**DUPLICATE**	EPA 6010C	AKS	23	PACE-MV
		EPA 7470A	JLN	1	PACE-MV
		EPA 8260C/5030C	BBL	51	PACE-MV
		SM22 2120B	ML	2	PACE-MV
		SM22 2320B	TR1	1	PACE-MV
		SM22 2340C	STH	1	PACE-MV
		SM22 2540C	STH	1	PACE-MV
		SM22 3500-Cr B	ML	1	PACE-MV
		EPA 410.4	JCA	1	PACE-MV
		SM22 5210B	SK1	1	PACE-MV
		EPA 300.0	BNK	3	PACE-MV
		EPA 351.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 353.2	SDO	1	PACE-MV
		EPA 420.1	JCA	1	PACE-MV
		SM22 4500 NH3 H	BNK	1	PACE-MV
		EPA 9014 Total Cyanide	JAD	1	PACE-MV
		EPA 9060A	LEP	5	PASI-PA
7014155015	**TRIP BLANK**	EPA 8260C/5030C	BBL	50	PACE-MV
7014155016	**STORAGE BLANK**	EPA 8260C/5030C	BBL	50	PACE-MV

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 6010C**
Description: 6010 MET ICP
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 18695

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014155013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 89133)
  - Manganese

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 18695

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 89132)
  - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 7470A**
Description: 7470 Mercury
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: April 10, 2017

General Information:
16 samples were analyzed for EPA 8260C/5030C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 18532

CC: The continuing calibration for this compound is outside of method control limits. The result is estimated.

- LCS (Lab ID: 88384)
  - Chloromethane
- MS (Lab ID: 88385)
  - Chloromethane
- MSD (Lab ID: 88386)
  - Chloromethane
- MW-8B (Lab ID: 7014155013)
  - Chloromethane

QC Batch: 18659

CC: The continuing calibration for this compound is outside of method control limits. The result is estimated.

- LCS (Lab ID: 88939)
  - Carbon tetrachloride
- MS (Lab ID: 89266)
  - Carbon tetrachloride

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: April 10, 2017

QC Batch: 18532

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 88384)
  - 1,2-Dibromoethane (EDB)

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 18659

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014353009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 89266)
  - Bromomethane
  - Iodomethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 2120B**
Description: 2120B W Apparent Color
Client: LaBella Associates
Date: April 10, 2017

General Information:
13 samples were analyzed for SM22 2120B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- DUPLICATE (Lab ID: 7014155014)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 2320B**
Description: 2320B Alkalinity
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for SM22 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 19126

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014155008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 90972)
  - Alkalinity, Total as CaCO3

QC Batch: 19138

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014155013,7014246001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 90991)
  - Alkalinity, Total as CaCO3

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
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(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 2340C**
Description: 2340C Hardness, Total
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for SM22 2340C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Melville, NY 11747
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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 2540C**
Description: 2540C Total Dissolved Solids
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for SM22 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 3500-Cr B**
Description: Chromium, Hexavalent
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for SM22 3500-Cr B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.
- MW-10B (Lab ID: 7014155009)
- MW-9B (Lab ID: 7014155007)
- SEED (Lab ID: 7014155008)

H3: Sample was received or analysis requested beyond the recognized method holding time.
- DUPLICATE (Lab ID: 7014155014)
- MW-11B (Lab ID: 7014155004)
- MW-12A (Lab ID: 7014155005)
- MW-12B (Lab ID: 7014155006)
- MW-6D (Lab ID: 7014155001)
- MW-7A (Lab ID: 7014155003)
- MW-7C (Lab ID: 7014155002)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 410.4**
Description: 410.4 COD
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 410.4 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 19357

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 91899)
  - Chemical Oxygen Demand

Additional Comments:

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 5210B**
Description: 5210B BOD, 5 day
Client: LaBella Associates
Date: April 10, 2017

General Information:
13 samples were analyzed for SM22 5210B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- DUPLICATE (Lab ID: 7014155014)

Sample Preparation:
The samples were prepared in accordance with SM22 5210B with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Melville, NY 11747
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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 19028

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 90534)
  - Chloride
  - Sulfate

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 351.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 351.2 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 19120

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014155013,7014246001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 90957)
  - Nitrogen, Kjeldahl, Total

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 18156

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014155001,7014155013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 86910)
  - Nitrate-Nitrite (as N)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
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Melville, NY 11747
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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 420.1**
Description: Phenolics, Total Recoverable
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 420.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 420.1 with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **SM22 4500 NH3 H**
Description: 4500 Ammonia Water
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for SM22 4500 NH3 H. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 19142

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7014155013

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 91015)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 9014 Total Cyanide**
Description: 9014 Cyanide, Total
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 9014 Total Cyanide. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 9010C with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Method: **EPA 9060A**
Description: 9060A Total Organic Carbon
Client: LaBella Associates
Date: April 10, 2017

General Information:
14 samples were analyzed for EPA 9060A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
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Melville, NY 11747
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ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-6D **Lab ID: 7014155001** Collected: 03/24/17 08:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**367**	ug/L	200	1	03/30/17 10:29	04/07/17 00:36	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 00:36	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:36	7440-38-2	
Barium	**51.3J**	ug/L	200	1	03/30/17 10:29	04/07/17 00:36	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:36	7440-41-7	
Boron	**30.3J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:36	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 00:36	7440-43-9	
Calcium	**90700**	ug/L	200	1	03/30/17 10:29	04/07/17 00:36	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:36	7440-47-3	
Cobalt	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:36	7440-48-4	
Copper	**3.0J**	ug/L	25.0	1	03/30/17 10:29	04/07/17 00:36	7440-50-8	
Iron	**723**	ug/L	100	1	03/30/17 10:29	04/07/17 00:36	7439-89-6	
Lead	**2.7J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:36	7439-92-1	
Magnesium	**24700**	ug/L	200	1	03/30/17 10:29	04/07/17 00:36	7439-95-4	
Manganese	**24.2**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:36	7439-96-5	
Nickel	**2.1J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 00:36	7440-02-0	
Potassium	**2710J**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:36	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:36	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:36	7440-22-4	
Sodium	**3810J**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:36	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:36	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:36	7440-62-2	
Zinc	**8.4J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 00:36	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:29	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 15:06	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 15:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 15:06	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 15:06	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 15:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:06	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 15:06	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 15:06	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 15:06	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 15:06	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 15:06	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 15:06	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 15:06	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 15:06	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 15:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 15:06	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 15:06	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 15:06	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-6D **Lab ID: 7014155001** Collected: 03/24/17 08:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 15:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 15:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 15:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 15:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 15:06	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 15:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 15:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 15:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 15:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 15:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 15:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 15:06	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 15:06	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 15:06	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 15:06	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 15:06	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 15:06	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 15:06	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 15:06	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 15:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 15:06	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 15:06	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 15:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 15:06	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:06	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 15:06	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:06	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 15:06	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 15:06	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 15:06	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 15:06	460-00-4	
Toluene-d8 (S)	98	%.	69-124	1		03/29/17 15:06	2037-26-5	
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**7.2**	Std. Units	0.10	1		03/26/17 07:27		
True Color	**5.0**	units	5.0	1		03/26/17 07:27		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**294**	mg/L	1.0	1		04/03/17 16:36		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**310**	mg/L	5.0	1		03/30/17 13:28		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**349**	mg/L	10.0	1		03/30/17 14:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-6D **Lab ID: 7014155001** Collected: 03/24/17 08:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		03/25/17 13:16	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**50.5**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:48		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	03/26/17 05:41	03/31/17 10:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**<0.50**	mg/L	0.50	1		04/03/17 22:15	24959-67-9	
Chloride	**4.1**	mg/L	2.0	1		04/03/17 22:15	16887-00-6	
Sulfate	**25.2**	mg/L	5.0	1		04/03/17 22:15	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.35**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.090**	mg/L	0.050	1		03/25/17 21:05	7727-37-9	M1
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:19	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.1J**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:20		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.026J**	mg/L	0.10	1		04/04/17 12:35	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:04	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:27	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:27	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:27	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:27	7440-44-0	
Mean Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:27	7440-44-0	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-7C **Lab ID: 7014155002** Collected: 03/24/17 08:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**<200**	ug/L	200	1	03/30/17 10:29	04/07/17 00:41	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 00:41	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:41	7440-38-2	
Barium	**90.4J**	ug/L	200	1	03/30/17 10:29	04/07/17 00:41	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:41	7440-41-7	
Boron	**16.6J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:41	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 00:41	7440-43-9	
Calcium	**96600**	ug/L	200	1	03/30/17 10:29	04/07/17 00:41	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:41	7440-47-3	
Cobalt	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:41	7440-48-4	
Copper	**2.6J**	ug/L	25.0	1	03/30/17 10:29	04/07/17 00:41	7440-50-8	
Iron	**14.7J**	ug/L	100	1	03/30/17 10:29	04/07/17 00:41	7439-89-6	
Lead	**2.1J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:41	7439-92-1	
Magnesium	**15400**	ug/L	200	1	03/30/17 10:29	04/07/17 00:41	7439-95-4	
Manganese	**320**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:41	7439-96-5	
Nickel	**1.6J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 00:41	7440-02-0	
Potassium	**2040J**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:41	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:41	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:41	7440-22-4	
Sodium	**8480**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:41	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:41	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:41	7440-62-2	
Zinc	**23.7**	ug/L	20.0	1	03/30/17 10:29	04/07/17 00:41	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:31	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 15:24	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 15:24	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 15:24	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 15:24	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 15:24	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:24	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 15:24	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 15:24	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 15:24	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 15:24	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 15:24	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 15:24	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 15:24	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 15:24	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 15:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 15:24	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 15:24	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 15:24	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-7C **Lab ID: 7014155002** Collected: 03/24/17 08:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 15:24	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 15:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 15:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 15:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 15:24	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 15:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 15:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 15:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 15:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 15:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 15:24	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 15:24	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 15:24	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 15:24	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 15:24	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 15:24	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 15:24	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 15:24	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 15:24	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 15:24	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 15:24	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 15:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 15:24	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:24	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 15:24	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:24	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 15:24	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 15:24	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	68-153	1		03/29/17 15:24	17060-07-0	
4-Bromofluorobenzene (S)	97	%.	79-124	1		03/29/17 15:24	460-00-4	
Toluene-d8 (S)	99	%.	69-124	1		03/29/17 15:24	2037-26-5	
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**7.0**	Std. Units	0.10	1		03/26/17 07:34		
True Color	**5.0**	units	5.0	1		03/26/17 07:34		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**314**	mg/L	1.0	1		04/03/17 16:44		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**280**	mg/L	5.0	1		03/30/17 13:30		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**349**	mg/L	10.0	1		03/30/17 14:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-7C **Lab ID: 7014155002** Collected: 03/24/17 08:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0033J**	mg/L	0.020	1		03/25/17 13:17	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**15.1**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:48		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	03/26/17 05:46	03/31/17 10:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.17J**	mg/L	0.50	1		04/03/17 22:29	24959-67-9	
Chloride	**7.5**	mg/L	2.0	1		04/03/17 22:29	16887-00-6	
Sulfate	**8.7**	mg/L	5.0	1		04/03/17 22:29	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.21**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:48	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.023J**	mg/L	0.050	1		03/25/17 21:09	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:22	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**3.1J**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:20		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.028J**	mg/L	0.10	1		04/04/17 12:36	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:04	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:52	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:52	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:52	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:52	7440-44-0	
Mean Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 02:52	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-7A **Lab ID: 7014155003** Collected: 03/24/17 09:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**29.9J**	ug/L	200	1	03/30/17 10:29	04/07/17 00:46	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 00:46	7440-36-0	
Arsenic	**10J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:46	7440-38-2	
Barium	**760**	ug/L	200	1	03/30/17 10:29	04/07/17 00:46	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:46	7440-41-7	
Boron	**61.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:46	7440-42-8	
Cadmium	**0.080J**	ug/L	2.5	1	03/30/17 10:29	04/07/17 00:46	7440-43-9	
Calcium	**58200**	ug/L	200	1	03/30/17 10:29	04/07/17 00:46	7440-70-2	
Chromium	**5.9J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:46	7440-47-3	
Cobalt	**20.8J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:46	7440-48-4	
Copper	**2.5J**	ug/L	25.0	1	03/30/17 10:29	04/07/17 00:46	7440-50-8	
Iron	**11900**	ug/L	100	1	03/30/17 10:29	04/07/17 00:46	7439-89-6	
Lead	**3.4J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:46	7439-92-1	
Magnesium	**11700**	ug/L	200	1	03/30/17 10:29	04/07/17 00:46	7439-95-4	
Manganese	**16400**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:46	7439-96-5	
Nickel	**12.5J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 00:46	7440-02-0	
Potassium	**21600**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:46	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:46	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:46	7440-22-4	
Sodium	**4710J**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:46	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:46	7440-28-0	
Vanadium	**1.4J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:46	7440-62-2	
Zinc	**9.7J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 00:46	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:38	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 15:42	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 15:42	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 15:42	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 15:42	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 15:42	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:42	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 15:42	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 15:42	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 15:42	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 15:42	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 15:42	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 15:42	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 15:42	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 15:42	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 15:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 15:42	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 15:42	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 15:42	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-7A **Lab ID: 7014155003** Collected: 03/24/17 09:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 15:42	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 15:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 15:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 15:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 15:42	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 15:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 15:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 15:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 15:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 15:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 15:42	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 15:42	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 15:42	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 15:42	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 15:42	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 15:42	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 15:42	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 15:42	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 15:42	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 15:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 15:42	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 15:42	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 15:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 15:42	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:42	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 15:42	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 15:42	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 15:42	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 15:42	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		03/29/17 15:42	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	79-124	1		03/29/17 15:42	460-00-4	
Toluene-d8 (S)	99	%.	69-124	1		03/29/17 15:42	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**9.7**	ug/L		1		03/29/17 15:42	75-45-6	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.1**	Std. Units	0.10	1		03/26/17 07:51		
True Color	**15.0**	units	5.0	1		03/26/17 07:51		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**287**	mg/L	1.0	1		04/03/17 16:53		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**220**	mg/L	5.0	1		03/30/17 13:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-7A **Lab ID: 7014155003** Collected: 03/24/17 09:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**272**	mg/L	10.0	1		03/30/17 14:21		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		03/25/17 13:18	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**50.5**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:49		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**7.3**	mg/L	2.0	1	03/26/17 05:48	03/31/17 10:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.24J**	mg/L	0.50	1		04/03/17 22:42	24959-67-9	
Chloride	**5.0**	mg/L	2.0	1		04/03/17 22:42	16887-00-6	
Sulfate	**5.9**	mg/L	5.0	1		04/03/17 22:42	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**2.4**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:49	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.044J**	mg/L	0.050	1		03/25/17 21:10	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:24	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**6.8**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:22		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**1.8**	mg/L	0.10	1		04/04/17 12:37	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:04	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**6.7**	mg/L	1.0	1		04/05/17 03:15	7440-44-0	
Total Organic Carbon	**7.1**	mg/L	1.0	1		04/05/17 03:15	7440-44-0	
Total Organic Carbon	**6.9**	mg/L	1.0	1		04/05/17 03:15	7440-44-0	
Total Organic Carbon	**7.4**	mg/L	1.0	1		04/05/17 03:15	7440-44-0	
Mean Total Organic Carbon	**7.0**	mg/L	1.0	1		04/05/17 03:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-11B **Lab ID: 7014155004** Collected: 03/24/17 09:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**36.9J**	ug/L	200	1	03/30/17 10:29	04/07/17 00:52	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 00:52	7440-36-0	
Arsenic	**6.9J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:52	7440-38-2	
Barium	**158J**	ug/L	200	1	03/30/17 10:29	04/07/17 00:52	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:52	7440-41-7	
Boron	**12.5J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:52	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 00:52	7440-43-9	
Calcium	**19000**	ug/L	200	1	03/30/17 10:29	04/07/17 00:52	7440-70-2	
Chromium	**3.0J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:52	7440-47-3	
Cobalt	**22.2J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:52	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 00:52	7440-50-8	
Iron	**5900**	ug/L	100	1	03/30/17 10:29	04/07/17 00:52	7439-89-6	
Lead	**1.7J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:52	7439-92-1	
Magnesium	**5690**	ug/L	200	1	03/30/17 10:29	04/07/17 00:52	7439-95-4	
Manganese	**8890**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:52	7439-96-5	
Nickel	**10.6J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 00:52	7440-02-0	
Potassium	**2120J**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:52	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:52	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:52	7440-22-4	
Sodium	**3110J**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:52	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:52	7440-28-0	
Vanadium	**1.1J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:52	7440-62-2	
Zinc	**977**	ug/L	20.0	1	03/30/17 10:29	04/07/17 00:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:40	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:00	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:00	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:00	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:00	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:00	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 16:00	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 16:00	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 16:00	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:00	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:00	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 16:00	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:00	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 16:00	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 16:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 16:00	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 16:00	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 16:00	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-11B **Lab ID: 7014155004** Collected: 03/24/17 09:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 16:00	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 16:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 16:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 16:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 16:00	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 16:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 16:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 16:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 16:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 16:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 16:00	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 16:00	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 16:00	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 16:00	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 16:00	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 16:00	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 16:00	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 16:00	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 16:00	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 16:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 16:00	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 16:00	108-05-4	
Vinyl chloride	**1.4**	ug/L	1.0	1		03/29/17 16:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 16:00	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:00	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:00	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:00	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:00	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 16:00	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 16:00	17060-07-0	
4-Bromofluorobenzene (S)	99	%.	79-124	1		03/29/17 16:00	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 16:00	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**8.6**	ug/L		1		03/29/17 16:00	75-45-6	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.0**	Std. Units	0.10	1		03/26/17 07:56		
True Color	**10.0**	units	5.0	1		03/26/17 07:56		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**179**	mg/L	1.0	1		04/03/17 17:04		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**88.0**	mg/L	5.0	1		03/30/17 13:33		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-11B **Lab ID: 7014155004** Collected: 03/24/17 09:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**170**	mg/L	10.0	1		03/30/17 14:21		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		03/25/17 13:19	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**62.9**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:49		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**9.6**	mg/L	2.0	1	03/26/17 05:50	03/31/17 10:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.13J**	mg/L	0.50	1		04/03/17 22:56	24959-67-9	
Chloride	**6.4**	mg/L	2.0	1		04/03/17 22:56	16887-00-6	
Sulfate	**3.3J**	mg/L	5.0	1		04/03/17 22:56	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**3.8**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:50	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.046J**	mg/L	0.050	1		03/25/17 21:11	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:25	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**9.9**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:22		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**2.1**	mg/L	0.10	1		04/04/17 12:39	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:04	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**2.7J**	mg/L	10.0	10		04/05/17 03:41	7440-44-0	
Total Organic Carbon	**3.5J**	mg/L	10.0	10		04/05/17 03:41	7440-44-0	
Total Organic Carbon	**3.0J**	mg/L	10.0	10		04/05/17 03:41	7440-44-0	
Total Organic Carbon	**3.2J**	mg/L	10.0	10		04/05/17 03:41	7440-44-0	
Mean Total Organic Carbon	**3.1J**	mg/L	10.0	10		04/05/17 03:41	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-12A **Lab ID: 7014155005** Collected: 03/24/17 10:15 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**16.1J**	ug/L	200	1	03/30/17 10:29	04/07/17 00:57	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 00:57	7440-36-0	
Arsenic	**55.7**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:57	7440-38-2	
Barium	**1780**	ug/L	200	1	03/30/17 10:29	04/07/17 00:57	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:57	7440-41-7	
Boron	**118**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:57	7440-42-8	
Cadmium	**0.57J**	ug/L	2.5	1	03/30/17 10:29	04/07/17 00:57	7440-43-9	
Calcium	**112000**	ug/L	200	1	03/30/17 10:29	04/07/17 00:57	7440-70-2	
Chromium	**21.6**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:57	7440-47-3	
Cobalt	**4.9J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:57	7440-48-4	
Copper	**4.1J**	ug/L	25.0	1	03/30/17 10:29	04/07/17 00:57	7440-50-8	
Iron	**42400**	ug/L	100	1	03/30/17 10:29	04/07/17 00:57	7439-89-6	
Lead	**3.0J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 00:57	7439-92-1	
Magnesium	**14300**	ug/L	200	1	03/30/17 10:29	04/07/17 00:57	7439-95-4	
Manganese	**12400**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:57	7439-96-5	
Nickel	**5.5J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 00:57	7440-02-0	
Potassium	**6740**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:57	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:57	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:57	7440-22-4	
Sodium	**10400**	ug/L	5000	1	03/30/17 10:29	04/07/17 00:57	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 00:57	7440-28-0	
Vanadium	**2.1J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 00:57	7440-62-2	
Zinc	**24.0**	ug/L	20.0	1	03/30/17 10:29	04/07/17 00:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:41	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:18	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:18	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:18	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:18	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:18	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:18	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 16:18	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 16:18	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 16:18	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:18	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:18	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 16:18	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:18	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 16:18	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 16:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 16:18	108-10-1	
Acetone	**12.8**	ug/L	5.0	1		03/29/17 16:18	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 16:18	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-12A **Lab ID: 7014155005** Collected: 03/24/17 10:15 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**7.2**	ug/L	5.0	1		03/29/17 16:18	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 16:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 16:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 16:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 16:18	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 16:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 16:18	56-23-5	
Chlorobenzene	**11.2**	ug/L	5.0	1		03/29/17 16:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 16:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 16:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 16:18	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 16:18	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 16:18	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 16:18	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 16:18	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 16:18	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 16:18	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 16:18	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 16:18	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 16:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 16:18	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 16:18	108-05-4	
Vinyl chloride	**2.9**	ug/L	1.0	1		03/29/17 16:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 16:18	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:18	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:18	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:18	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:18	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 16:18	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 16:18	17060-07-0	
4-Bromofluorobenzene (S)	97	%.	79-124	1		03/29/17 16:18	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 16:18	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**18.6**	ug/L		1		03/29/17 16:18	75-45-6	N
Ethyl ether	**6.4**	ug/L		1		03/29/17 16:18	60-29-7	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.2**	Std. Units	0.10	1		03/26/17 08:01		
True Color	**25.0**	units	5.0	1		03/26/17 08:01		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**380**	mg/L	1.0	1		04/04/17 11:11		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**340**	mg/L	5.0	1		03/30/17 13:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-12A **Lab ID: 7014155005** Collected: 03/24/17 10:15 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**426**	mg/L	10.0	1		03/30/17 14:23		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.040**	mg/L	0.040	2		03/25/17 13:20	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**75.4**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:49		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**9.6**	mg/L	2.0	1	03/26/17 05:53	03/31/17 10:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.31J**	mg/L	0.50	1		04/03/17 23:09	24959-67-9	
Chloride	**10.5**	mg/L	2.0	1		04/03/17 23:09	16887-00-6	
Sulfate	**2.9J**	mg/L	5.0	1		04/03/17 23:09	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**8.2**	mg/L	0.50	5	04/04/17 07:02	04/04/17 12:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.065**	mg/L	0.050	1		03/25/17 21:12	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:26	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**41.8**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:30		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**7.0**	mg/L	0.50	5		04/04/17 14:07	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:05	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**6.8**	mg/L	5.0	5		04/05/17 06:58	7440-44-0	
Total Organic Carbon	**8.0**	mg/L	5.0	5		04/05/17 06:58	7440-44-0	
Total Organic Carbon	**6.9**	mg/L	5.0	5		04/05/17 06:58	7440-44-0	
Total Organic Carbon	**8.2**	mg/L	5.0	5		04/05/17 06:58	7440-44-0	
Mean Total Organic Carbon	**7.5**	mg/L	5.0	5		04/05/17 06:58	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-12B **Lab ID: 7014155006** Collected: 03/24/17 10:25 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**15.7J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:02	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:02	7440-36-0	
Arsenic	**10.8**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:02	7440-38-2	
Barium	**304**	ug/L	200	1	03/30/17 10:29	04/07/17 01:02	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:02	7440-41-7	
Boron	**110**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:02	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:02	7440-43-9	
Calcium	**121000**	ug/L	200	1	03/30/17 10:29	04/07/17 01:02	7440-70-2	
Chromium	**6.0J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:02	7440-47-3	
Cobalt	**9.1J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:02	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:02	7440-50-8	
Iron	**12300**	ug/L	100	1	03/30/17 10:29	04/07/17 01:02	7439-89-6	
Lead	**1.5J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:02	7439-92-1	
Magnesium	**22800**	ug/L	200	1	03/30/17 10:29	04/07/17 01:02	7439-95-4	
Manganese	**10700**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:02	7439-96-5	
Nickel	**5.8J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:02	7440-02-0	
Potassium	**6300**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:02	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:02	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:02	7440-22-4	
Sodium	**11800**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:02	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:02	7440-28-0	
Vanadium	**1.5J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:02	7440-62-2	
Zinc	**2.8J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:02	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:43	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:36	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:36	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:36	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:36	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:36	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:36	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 16:36	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 16:36	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 16:36	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:36	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:36	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 16:36	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:36	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 16:36	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 16:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 16:36	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 16:36	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 16:36	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-12B **Lab ID: 7014155006** Collected: 03/24/17 10:25 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**6.7**	ug/L	5.0	1		03/29/17 16:36	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 16:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 16:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 16:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 16:36	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 16:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 16:36	56-23-5	
Chlorobenzene	**9.7**	ug/L	5.0	1		03/29/17 16:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 16:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 16:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 16:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 16:36	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 16:36	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 16:36	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 16:36	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 16:36	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 16:36	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 16:36	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 16:36	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 16:36	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 16:36	108-05-4	
Vinyl chloride	**3.0**	ug/L	1.0	1		03/29/17 16:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 16:36	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:36	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:36	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:36	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:36	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 16:36	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		03/29/17 16:36	17060-07-0	
4-Bromofluorobenzene (S)	99	%.	79-124	1		03/29/17 16:36	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 16:36	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**22.7**	ug/L		1		03/29/17 16:36	75-45-6	N
Ethyl ether	**7.3**	ug/L		1		03/29/17 16:36	60-29-7	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.2**	Std. Units	0.10	1		03/26/17 08:07		
True Color	**15.0**	units	5.0	1		03/26/17 08:07		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**539**	mg/L	1.0	1		04/04/17 11:17		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**410**	mg/L	5.0	1		03/30/17 13:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-12B **Lab ID: 7014155006** Collected: 03/24/17 10:25 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**459**	mg/L	10.0	1		03/30/17 14:22		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		03/25/17 13:21	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**48.4**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:49		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**9.9**	mg/L	2.0	1	03/26/17 06:03	03/31/17 10:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.38J**	mg/L	0.50	1		04/03/17 23:23	24959-67-9	
Chloride	**11.4**	mg/L	2.0	1		04/03/17 23:23	16887-00-6	
Sulfate	**2.6J**	mg/L	5.0	1		04/03/17 23:23	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**6.4**	mg/L	0.50	5	04/04/17 07:02	04/04/17 12:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.052**	mg/L	0.050	1		03/25/17 21:13	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:27	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**47.0**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:30		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**6.7**	mg/L	0.50	5		04/04/17 14:08	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:05	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**2.6J**	mg/L	10.0	10		04/05/17 07:22	7440-44-0	
Total Organic Carbon	**3.6J**	mg/L	10.0	10		04/05/17 07:22	7440-44-0	
Total Organic Carbon	**2.9J**	mg/L	10.0	10		04/05/17 07:22	7440-44-0	
Total Organic Carbon	**4.0J**	mg/L	10.0	10		04/05/17 07:22	7440-44-0	
Mean Total Organic Carbon	**3.2J**	mg/L	10.0	10		04/05/17 07:22	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-9B **Lab ID: 7014155007** Collected: 03/24/17 11:15 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**56.3J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:07	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:07	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:07	7440-38-2	
Barium	**20.4J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:07	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:07	7440-41-7	
Boron	**9.7J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:07	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:07	7440-43-9	
Calcium	**75600**	ug/L	200	1	03/30/17 10:29	04/07/17 01:07	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:07	7440-47-3	
Cobalt	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:07	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:07	7440-50-8	
Iron	**135**	ug/L	100	1	03/30/17 10:29	04/07/17 01:07	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:07	7439-92-1	
Magnesium	**10600**	ug/L	200	1	03/30/17 10:29	04/07/17 01:07	7439-95-4	
Manganese	**118**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:07	7439-96-5	
Nickel	**1.1J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:07	7440-02-0	
Potassium	**2040J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:07	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:07	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:07	7440-22-4	
Sodium	**5890**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:07	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:07	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:07	7440-62-2	
Zinc	**5.5J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:07	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:45	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:54	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:54	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 16:54	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 16:54	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:54	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:54	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 16:54	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 16:54	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 16:54	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:54	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 16:54	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 16:54	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 16:54	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 16:54	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 16:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 16:54	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 16:54	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 16:54	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-9B **Lab ID: 7014155007** Collected: 03/24/17 11:15 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 16:54	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 16:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 16:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 16:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 16:54	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 16:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 16:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 16:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 16:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 16:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 16:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 16:54	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 16:54	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 16:54	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 16:54	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 16:54	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 16:54	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 16:54	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 16:54	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 16:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 16:54	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 16:54	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 16:54	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 16:54	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:54	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:54	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 16:54	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 16:54	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 16:54	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	68-153	1		03/29/17 16:54	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 16:54	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 16:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**200**	mg/L	1.0	1		04/04/17 11:45		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**200**	mg/L	5.0	1		03/30/17 13:39		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**225**	mg/L	10.0	1		03/30/17 14:24		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0099J**	mg/L	0.020	1		03/25/17 13:22	18540-29-9	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-9B **Lab ID: 7014155007** Collected: 03/24/17 11:15 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**17.2**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.12J**	mg/L	0.50	1		04/03/17 23:36	24959-67-9	
Chloride	**5.9**	mg/L	2.0	1		04/03/17 23:36	16887-00-6	
Sulfate	**9.6**	mg/L	5.0	1		04/03/17 23:36	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.27**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:54	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.035J**	mg/L	0.050	1		03/25/17 21:15	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:28	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**3.1J**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:31		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.026J**	mg/L	0.10	1		04/04/17 12:42	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:06	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 07:46	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 07:46	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 07:46	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 07:46	7440-44-0	
Mean Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 07:46	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: SEED **Lab ID: 7014155008** Collected: 03/24/17 12:30 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**101J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:13	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:13	7440-36-0	
Arsenic	**16.4**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:13	7440-38-2	
Barium	**150J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:13	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:13	7440-41-7	
Boron	**68.7**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:13	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:13	7440-43-9	
Calcium	**47300**	ug/L	200	1	03/30/17 10:29	04/07/17 01:13	7440-70-2	
Chromium	**6.6J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:13	7440-47-3	
Cobalt	**11.5J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:13	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:13	7440-50-8	
Iron	**13400**	ug/L	100	1	03/30/17 10:29	04/07/17 01:13	7439-89-6	
Lead	**1.5J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:13	7439-92-1	
Magnesium	**13900**	ug/L	200	1	03/30/17 10:29	04/07/17 01:13	7439-95-4	
Manganese	**10900**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:13	7439-96-5	
Nickel	**5.9J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:13	7440-02-0	
Potassium	**5000J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:13	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:13	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:13	7440-22-4	
Sodium	**6590**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:13	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:13	7440-28-0	
Vanadium	**1.2J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:13	7440-62-2	
Zinc	**<20.0**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:13	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:46	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 17:12	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 17:12	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 17:12	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 17:12	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 17:12	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:12	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 17:12	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 17:12	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 17:12	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 17:12	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 17:12	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 17:12	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 17:12	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 17:12	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 17:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 17:12	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 17:12	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 17:12	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: SEED **Lab ID: 7014155008** Collected: 03/24/17 12:30 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 17:12	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 17:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 17:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 17:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 17:12	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 17:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 17:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 17:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 17:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 17:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 17:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 17:12	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 17:12	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 17:12	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 17:12	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 17:12	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 17:12	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 17:12	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 17:12	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 17:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 17:12	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 17:12	108-05-4	
Vinyl chloride	**1.9**	ug/L	1.0	1		03/29/17 17:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 17:12	1330-20-7	
cis-1,2-Dichloroethene	**6.3**	ug/L	5.0	1		03/29/17 17:12	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 17:12	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:12	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 17:12	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 17:12	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 17:12	17060-07-0	
4-Bromofluorobenzene (S)	99	%.	79-124	1		03/29/17 17:12	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 17:12	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**7.2**	ug/L		1		03/29/17 17:12	75-45-6	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.2**	Std. Units	0.10	1		03/26/17 08:30		
True Color	**10.0**	units	5.0	1		03/26/17 08:30		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**217**	mg/L	1.0	1		04/04/17 11:32		M1
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**180**	mg/L	5.0	1		03/30/17 13:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: SEED **Lab ID: 7014155008** Collected: 03/24/17 12:30 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**213**	mg/L	10.0	1		03/30/17 14:25		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0099J**	mg/L	0.020	1		03/25/17 13:22	18540-29-9	H1
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**46.3**	mg/L	10.0	1	03/30/17 11:35	03/30/17 14:50		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**6.1**	mg/L	2.0	1	03/26/17 06:07	03/31/17 10:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.27J**	mg/L	0.50	1		04/03/17 23:50	24959-67-9	
Chloride	**7.9**	mg/L	2.0	1		04/03/17 23:50	16887-00-6	
Sulfate	**3.9J**	mg/L	5.0	1		04/03/17 23:50	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**3.3**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:55	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.11**	mg/L	0.050	1		03/25/17 21:16	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:29	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**15.1**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:32		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**2.7**	mg/L	0.10	1		04/04/17 12:46	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:06	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**6.0**	mg/L	1.0	1		04/05/17 08:10	7440-44-0	
Total Organic Carbon	**6.7**	mg/L	1.0	1		04/05/17 08:10	7440-44-0	
Total Organic Carbon	**5.9**	mg/L	1.0	1		04/05/17 08:10	7440-44-0	
Total Organic Carbon	**6.6**	mg/L	1.0	1		04/05/17 08:10	7440-44-0	
Mean Total Organic Carbon	**6.3**	mg/L	1.0	1		04/05/17 08:10	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-10B **Lab ID: 7014155009** Collected: 03/24/17 12:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**30.3J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:28	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:28	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:28	7440-38-2	
Barium	**55.1J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:28	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:28	7440-41-7	
Boron	**45.2J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:28	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:28	7440-43-9	
Calcium	**72400**	ug/L	200	1	03/30/17 10:29	04/07/17 01:28	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:28	7440-47-3	
Cobalt	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:28	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:28	7440-50-8	
Iron	**137**	ug/L	100	1	03/30/17 10:29	04/07/17 01:28	7439-89-6	
Lead	**1.6J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:28	7439-92-1	
Magnesium	**22400**	ug/L	200	1	03/30/17 10:29	04/07/17 01:28	7439-95-4	
Manganese	**2160**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:28	7439-96-5	
Nickel	**3.6J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:28	7440-02-0	
Potassium	**2590J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:28	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:28	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:28	7440-22-4	
Sodium	**8220**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:28	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:28	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:28	7440-62-2	
Zinc	**3.9J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:28	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:48	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 17:30	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 17:30	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 17:30	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 17:30	79-00-5	
1,1-Dichloroethane	**11.5**	ug/L	5.0	1		03/29/17 17:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:30	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 17:30	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 17:30	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 17:30	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 17:30	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 17:30	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 17:30	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 17:30	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 17:30	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 17:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 17:30	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 17:30	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 17:30	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-10B **Lab ID: 7014155009** Collected: 03/24/17 12:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 17:30	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 17:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 17:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 17:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 17:30	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 17:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 17:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 17:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 17:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 17:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 17:30	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 17:30	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 17:30	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 17:30	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 17:30	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 17:30	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 17:30	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 17:30	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 17:30	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 17:30	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 17:30	108-05-4	
Vinyl chloride	**4.9**	ug/L	1.0	1		03/29/17 17:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 17:30	1330-20-7	
cis-1,2-Dichloroethene	**35.2**	ug/L	5.0	1		03/29/17 17:30	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 17:30	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:30	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 17:30	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 17:30	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		03/29/17 17:30	17060-07-0	
4-Bromofluorobenzene (S)	96	%.	79-124	1		03/29/17 17:30	460-00-4	
Toluene-d8 (S)	96	%.	69-124	1		03/29/17 17:30	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**8.4**	ug/L		1		03/29/17 17:30	75-45-6	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
Apparent Color	**10.0**	units	5.0	1		03/26/17 08:35		
pH	**6.2**	Std. Units	0.10	1		03/26/17 08:35		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**267**	mg/L	1.0	1		04/04/17 12:37		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**250**	mg/L	5.0	1		03/30/17 13:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-10B **Lab ID: 7014155009** Collected: 03/24/17 12:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**279**	mg/L	10.0	1		03/30/17 14:25		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0033J**	mg/L	0.020	1		03/25/17 13:24	18540-29-9	H1
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**13.0**	mg/L	10.0	1	04/05/17 11:15	04/05/17 13:53		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.2J**	mg/L	2.0	1	03/26/17 06:10	03/31/17 10:33		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.25J**	mg/L	0.50	1		04/04/17 00:03	24959-67-9	
Chloride	**12.5**	mg/L	2.0	1		04/04/17 00:03	16887-00-6	
Sulfate	**6.2**	mg/L	5.0	1		04/04/17 00:03	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.36**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:58	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		03/25/17 21:19	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:33	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.1J**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:33		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.19**	mg/L	0.10	1		04/04/17 12:47	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:07	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 08:35	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 08:35	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 08:35	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 08:35	7440-44-0	
Mean Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 08:35	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-13 **Lab ID: 7014155010** Collected: 03/24/17 13:30 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**26.0J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:33	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:33	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:33	7440-38-2	
Barium	**17.0J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:33	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:33	7440-41-7	
Boron	**43.4J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:33	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:33	7440-43-9	
Calcium	**46800**	ug/L	200	1	03/30/17 10:29	04/07/17 01:33	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:33	7440-47-3	
Cobalt	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:33	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:33	7440-50-8	
Iron	**90.7J**	ug/L	100	1	03/30/17 10:29	04/07/17 01:33	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:33	7439-92-1	
Magnesium	**13000**	ug/L	200	1	03/30/17 10:29	04/07/17 01:33	7439-95-4	
Manganese	**171**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:33	7439-96-5	
Nickel	**2.1J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:33	7440-02-0	
Potassium	**<5000**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:33	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:33	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:33	7440-22-4	
Sodium	**10700**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:33	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:33	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:33	7440-62-2	
Zinc	**14.3J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:50	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 17:48	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 17:48	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 17:48	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 17:48	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 17:48	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:48	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 17:48	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 17:48	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 17:48	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 17:48	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 17:48	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 17:48	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 17:48	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 17:48	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 17:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 17:48	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 17:48	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 17:48	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-13 **Lab ID: 7014155010** Collected: 03/24/17 13:30 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 17:48	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 17:48	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 17:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 17:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 17:48	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 17:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 17:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 17:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 17:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 17:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 17:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 17:48	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 17:48	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 17:48	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 17:48	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 17:48	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 17:48	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 17:48	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 17:48	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 17:48	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 17:48	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 17:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 17:48	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:48	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 17:48	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 17:48	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 17:48	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 17:48	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 17:48	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 17:48	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 17:48	2037-26-5	
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.4**	Std. Units	0.10	1		03/26/17 08:44		
True Color	**5.0**	units	5.0	1		03/26/17 08:44		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**170**	mg/L	1.0	1		04/04/17 12:44		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**150**	mg/L	5.0	1		03/30/17 13:45		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**197**	mg/L	10.0	1		03/30/17 14:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-13 **Lab ID: 7014155010** Collected: 03/24/17 13:30 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0059J**	mg/L	0.020	1		03/25/17 13:25	18540-29-9	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**17.2**	mg/L	10.0	1	04/05/17 11:15	04/05/17 13:53		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	03/26/17 06:12	03/31/17 10:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.22J**	mg/L	0.50	1		04/04/17 00:17	24959-67-9	
Chloride	**6.3**	mg/L	2.0	1		04/04/17 00:17	16887-00-6	
Sulfate	**9.0**	mg/L	5.0	1		04/04/17 00:17	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.17**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.066**	mg/L	0.050	1		03/25/17 21:20	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:34	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**1.5J**	ug/L	5.0	1	03/31/17 12:00	03/31/17 15:33		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.032J**	mg/L	0.10	1		04/04/17 12:48	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:07	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:00	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:00	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:00	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:00	7440-44-0	
Mean Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:00	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: STREAM **Lab ID: 7014155011** Collected: 03/24/17 13:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**533**	ug/L	200	1	03/30/17 10:29	04/07/17 01:38	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:38	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:38	7440-38-2	
Barium	**10.8J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:38	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:38	7440-41-7	
Boron	**18.0J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:38	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:38	7440-43-9	
Calcium	**19300**	ug/L	200	1	03/30/17 10:29	04/07/17 01:38	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:38	7440-47-3	
Cobalt	**0.65J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:38	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:38	7440-50-8	
Iron	**963**	ug/L	100	1	03/30/17 10:29	04/07/17 01:38	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:38	7439-92-1	
Magnesium	**5460**	ug/L	200	1	03/30/17 10:29	04/07/17 01:38	7439-95-4	
Manganese	**198**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:38	7439-96-5	
Nickel	**1.2J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:38	7440-02-0	
Potassium	**1900J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:38	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:38	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:38	7440-22-4	
Sodium	**3180J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:38	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:38	7440-28-0	
Vanadium	**0.90J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:38	7440-62-2	
Zinc	**1.4J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:51	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 18:06	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 18:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 18:06	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 18:06	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 18:06	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:06	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 18:06	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 18:06	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 18:06	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 18:06	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 18:06	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 18:06	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 18:06	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 18:06	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 18:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 18:06	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 18:06	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 18:06	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: STREAM **Lab ID: 7014155011** Collected: 03/24/17 13:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 18:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 18:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 18:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 18:06	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 18:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 18:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 18:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 18:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 18:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 18:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 18:06	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 18:06	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 18:06	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 18:06	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 18:06	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 18:06	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 18:06	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 18:06	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 18:06	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 18:06	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 18:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 18:06	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:06	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 18:06	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:06	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 18:06	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 18:06	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		03/29/17 18:06	17060-07-0	
4-Bromofluorobenzene (S)	99	%.	79-124	1		03/29/17 18:06	460-00-4	
Toluene-d8 (S)	98	%.	69-124	1		03/29/17 18:06	2037-26-5	
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**7.1**	Std. Units	0.10	1		03/26/17 08:49		
True Color	**15.0**	units	5.0	1		03/26/17 08:49		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**60.2**	mg/L	1.0	1		04/04/17 12:50		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**60.0**	mg/L	5.0	1		03/30/17 13:46		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**98.0**	mg/L	10.0	1		03/30/17 14:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: STREAM **Lab ID: 7014155011** Collected: 03/24/17 13:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0072J**	mg/L	0.020	1		03/25/17 13:26	18540-29-9	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**23.4**	mg/L	10.0	1	04/05/17 11:15	04/05/17 13:53		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.2J**	mg/L	2.0	1	03/26/17 06:14	03/31/17 10:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.071J**	mg/L	0.50	1		04/04/17 00:57	24959-67-9	
Chloride	**2.7**	mg/L	2.0	1		04/04/17 00:57	16887-00-6	
Sulfate	**5.9**	mg/L	5.0	1		04/04/17 00:57	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.48**	mg/L	0.10	1	04/04/17 07:02	04/04/17 12:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.28**	mg/L	0.050	1		03/25/17 21:22	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:35	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**1.5J**	ug/L	5.0	1	04/03/17 10:15	04/03/17 14:00		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.10**	mg/L	0.10	1		04/04/17 12:49	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:08	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:24	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:24	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:24	7440-44-0	
Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:24	7440-44-0	
Mean Total Organic Carbon	**<10.0**	mg/L	10.0	10		04/05/17 09:24	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-14 **Lab ID: 7014155012** Collected: 03/24/17 14:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**<200**	ug/L	200	1	03/30/17 10:29	04/07/17 01:43	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:43	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:43	7440-38-2	
Barium	**41.5J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:43	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:43	7440-41-7	
Boron	**21.5J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:43	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:43	7440-43-9	
Calcium	**60100**	ug/L	200	1	03/30/17 10:29	04/07/17 01:43	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:43	7440-47-3	
Cobalt	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:43	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:43	7440-50-8	
Iron	**<100**	ug/L	100	1	03/30/17 10:29	04/07/17 01:43	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:43	7439-92-1	
Magnesium	**15000**	ug/L	200	1	03/30/17 10:29	04/07/17 01:43	7439-95-4	
Manganese	**68.2**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:43	7439-96-5	
Nickel	**<40.0**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:43	7440-02-0	
Potassium	**1920J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:43	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:43	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:43	7440-22-4	
Sodium	**9930**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:43	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:43	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:43	7440-62-2	
Zinc	**1.6J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:43	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 16:53	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 18:24	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 18:24	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 18:24	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 18:24	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 18:24	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:24	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 18:24	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 18:24	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 18:24	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 18:24	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 18:24	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 18:24	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 18:24	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 18:24	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 18:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 18:24	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 18:24	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 18:24	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-14 **Lab ID: 7014155012** Collected: 03/24/17 14:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 18:24	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 18:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 18:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 18:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 18:24	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 18:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 18:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 18:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 18:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 18:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 18:24	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 18:24	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 18:24	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 18:24	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 18:24	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 18:24	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 18:24	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 18:24	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 18:24	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 18:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 18:24	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 18:24	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 18:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 18:24	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:24	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 18:24	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:24	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 18:24	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 18:24	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	68-153	1		03/29/17 18:24	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 18:24	460-00-4	
Toluene-d8 (S)	96	%.	69-124	1		03/29/17 18:24	2037-26-5	
2120B W Apparent Color	Analytical Method: SM22 2120B							
Apparent Color	**10.0**	units	5.0	1		03/26/17 08:50		
pH	**7.5**	Std. Units	0.10	1		03/26/17 08:50		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**243**	mg/L	1.0	1		04/04/17 12:56		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**240**	mg/L	5.0	1		03/30/17 13:48		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**249**	mg/L	10.0	1		03/30/17 14:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-14 **Lab ID: 7014155012** Collected: 03/24/17 14:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**0.0086J**	mg/L	0.020	1		03/25/17 13:26	18540-29-9	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**13.0**	mg/L	10.0	1	04/05/17 11:15	04/05/17 13:53		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	03/26/17 06:16	03/31/17 10:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**<0.50**	mg/L	0.50	1		04/04/17 01:11	24959-67-9	
Chloride	**2.7**	mg/L	2.0	1		04/04/17 01:11	16887-00-6	
Sulfate	**18.2**	mg/L	5.0	1		04/04/17 01:11	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.14**	mg/L	0.10	1	04/04/17 07:02	04/04/17 13:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.086**	mg/L	0.050	1		03/25/17 21:23	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:37	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	04/03/17 10:15	04/03/17 14:00		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.024J**	mg/L	0.10	1		04/04/17 12:51	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:09	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/05/17 09:48	7440-44-0	
Total Organic Carbon	**0.085J**	mg/L	1.0	1		04/05/17 09:48	7440-44-0	
Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/05/17 09:48	7440-44-0	
Total Organic Carbon	**0.13J**	mg/L	1.0	1		04/05/17 09:48	7440-44-0	
Mean Total Organic Carbon	**<1.0**	mg/L	1.0	1		04/05/17 09:48	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-8B **Lab ID: 7014155013** Collected: 03/24/17 14:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**<200**	ug/L	200	1	03/30/17 10:29	04/07/17 01:48	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 01:48	7440-36-0	
Arsenic	**14.4**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:48	7440-38-2	
Barium	**124J**	ug/L	200	1	03/30/17 10:29	04/07/17 01:48	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:48	7440-41-7	
Boron	**42.8J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:48	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 01:48	7440-43-9	
Calcium	**76800**	ug/L	200	1	03/30/17 10:29	04/07/17 01:48	7440-70-2	
Chromium	**1.7J**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:48	7440-47-3	
Cobalt	**9.3J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:48	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 01:48	7440-50-8	
Iron	**4170**	ug/L	100	1	03/30/17 10:29	04/07/17 01:48	7439-89-6	
Lead	**1.7J**	ug/L	5.0	1	03/30/17 10:29	04/07/17 01:48	7439-92-1	
Magnesium	**11200**	ug/L	200	1	03/30/17 10:29	04/07/17 01:48	7439-95-4	
Manganese	**7020**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:48	7439-96-5	M1
Nickel	**5.2J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 01:48	7440-02-0	
Potassium	**3510J**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:48	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:48	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:48	7440-22-4	
Sodium	**7130**	ug/L	5000	1	03/30/17 10:29	04/07/17 01:48	7440-23-5	D6
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 01:48	7440-28-0	
Vanadium	**1.3J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 01:48	7440-62-2	
Zinc	**<20.0**	ug/L	20.0	1	03/30/17 10:29	04/07/17 01:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 17:00	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	79-00-5	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		03/29/17 18:41	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		03/29/17 18:41	106-93-4	L1
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	78-87-5	
1,4-Dichlorobenzene	**1.1**	ug/L	1.0	1		03/29/17 18:41	106-46-7	
2-Butanone (MEK)	**<1.0**	ug/L	1.0	1		03/29/17 18:41	78-93-3	
2-Hexanone	**<1.0**	ug/L	1.0	1		03/29/17 18:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<1.0**	ug/L	1.0	1		03/29/17 18:41	108-10-1	
Acetone	**1.4J**	ug/L	5.0	1		03/29/17 18:41	67-64-1	B
Acrylonitrile	**<1.0**	ug/L	1.0	1		03/29/17 18:41	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-8B **Lab ID: 7014155013** Collected: 03/24/17 14:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	**1.6**	ug/L	1.0	1		03/29/17 18:41	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		03/29/17 18:41	56-23-5	
Chlorobenzene	**2.8**	ug/L	1.0	1		03/29/17 18:41	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		03/29/17 18:41	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	74-87-3	CC
Dibromochloromethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	124-48-1	
Dibromomethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	108-88-3	
Trichloroethene	**1.3**	ug/L	1.0	1		03/29/17 18:41	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		03/29/17 18:41	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		03/29/17 18:41	108-05-4	
Vinyl chloride	**2.8**	ug/L	1.0	1		03/29/17 18:41	75-01-4	
Xylene (Total)	**<1.0**	ug/L	1.0	1		03/29/17 18:41	1330-20-7	
cis-1,2-Dichloroethene	**5.8**	ug/L	1.0	1		03/29/17 18:41	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		03/29/17 18:41	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 18:41	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 18:41	460-00-4	
Toluene-d8 (S)	97	%.	69-124	1		03/29/17 18:41	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**9.1**	ug/L		1		03/29/17 18:41	75-45-6	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
pH	**6.2**	Std. Units	0.10	1		03/26/17 08:59		
True Color	**10.0**	units	5.0	1		03/26/17 08:59		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**266**	mg/L	1.0	1		04/04/17 13:05		M1
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**228**	mg/L	5.0	1		03/30/17 13:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: MW-8B **Lab ID: 7014155013** Collected: 03/24/17 14:45 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**290**	mg/L	10.0	1		03/30/17 14:27		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		03/25/17 13:27	18540-29-9	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**23.4**	mg/L	10.0	1	04/05/17 11:15	04/05/17 13:54		D6
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.2J**	mg/L	2.0	1	03/26/17 06:19	03/31/17 10:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.17J**	mg/L	0.50	1		04/04/17 01:24	24959-67-9	
Chloride	**4.7**	mg/L	2.0	1		04/04/17 01:24	16887-00-6	
Sulfate	**7.9**	mg/L	5.0	1		04/04/17 01:24	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.6**	mg/L	0.10	1	04/04/17 07:02	04/04/17 13:03	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.032J**	mg/L	0.050	1		03/25/17 21:24	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:38	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**2.1J**	ug/L	5.0	1	04/04/17 11:15	04/04/17 14:57		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.86**	mg/L	0.10	1		04/04/17 14:36	7664-41-7	M1
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:09	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**3.7**	mg/L	1.0	1		04/05/17 05:45	7440-44-0	ML
Total Organic Carbon	**4.8**	mg/L	1.0	1		04/05/17 05:45	7440-44-0	ML
Total Organic Carbon	**4.3**	mg/L	1.0	1		04/05/17 05:45	7440-44-0	ML
Total Organic Carbon	**4.0**	mg/L	1.0	1		04/05/17 05:45	7440-44-0	ML
Mean Total Organic Carbon	**4.2**	mg/L	1.0	1		04/05/17 05:45	7440-44-0	ML

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: DUPLICATE **Lab ID: 7014155014** Collected: 03/24/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Aluminum	**<200**	ug/L	200	1	03/30/17 10:29	04/07/17 02:14	7429-90-5	
Antimony	**<60.0**	ug/L	60.0	1	03/30/17 10:29	04/07/17 02:14	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 02:14	7440-38-2	
Barium	**51.8J**	ug/L	200	1	03/30/17 10:29	04/07/17 02:14	7440-39-3	
Beryllium	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 02:14	7440-41-7	
Boron	**45.7J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 02:14	7440-42-8	
Cadmium	**<2.5**	ug/L	2.5	1	03/30/17 10:29	04/07/17 02:14	7440-43-9	
Calcium	**71700**	ug/L	200	1	03/30/17 10:29	04/07/17 02:14	7440-70-2	
Chromium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 02:14	7440-47-3	
Cobalt	**0.85J**	ug/L	50.0	1	03/30/17 10:29	04/07/17 02:14	7440-48-4	
Copper	**<25.0**	ug/L	25.0	1	03/30/17 10:29	04/07/17 02:14	7440-50-8	
Iron	**66.0J**	ug/L	100	1	03/30/17 10:29	04/07/17 02:14	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	03/30/17 10:29	04/07/17 02:14	7439-92-1	
Magnesium	**22300**	ug/L	200	1	03/30/17 10:29	04/07/17 02:14	7439-95-4	
Manganese	**2040**	ug/L	10.0	1	03/30/17 10:29	04/07/17 02:14	7439-96-5	
Nickel	**3.6J**	ug/L	40.0	1	03/30/17 10:29	04/07/17 02:14	7440-02-0	
Potassium	**2740J**	ug/L	5000	1	03/30/17 10:29	04/07/17 02:14	7440-09-7	
Selenium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 02:14	7782-49-2	
Silver	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 02:14	7440-22-4	
Sodium	**7320**	ug/L	5000	1	03/30/17 10:29	04/07/17 02:14	7440-23-5	
Thallium	**<10.0**	ug/L	10.0	1	03/30/17 10:29	04/07/17 02:14	7440-28-0	
Vanadium	**<50.0**	ug/L	50.0	1	03/30/17 10:29	04/07/17 02:14	7440-62-2	
Zinc	**1.7J**	ug/L	20.0	1	03/30/17 10:29	04/07/17 02:14	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	**<0.20**	ug/L	0.20	1	03/31/17 10:20	04/05/17 17:05	7439-97-6	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 18:59	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 18:59	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 18:59	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 18:59	79-00-5	
1,1-Dichloroethane	**11.5**	ug/L	5.0	1		03/29/17 18:59	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:59	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 18:59	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 18:59	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 18:59	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 18:59	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 18:59	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 18:59	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 18:59	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 18:59	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 18:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 18:59	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 18:59	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 18:59	107-13-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: DUPLICATE **Lab ID: 7014155014** Collected: 03/24/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Benzene	ND	ug/L	5.0	1		03/29/17 18:59	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 18:59	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 18:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 18:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 18:59	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 18:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 18:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 18:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 18:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 18:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 18:59	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 18:59	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 18:59	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 18:59	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 18:59	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 18:59	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 18:59	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 18:59	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 18:59	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 18:59	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 18:59	108-05-4	
Vinyl chloride	**4.9**	ug/L	1.0	1		03/29/17 18:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 18:59	1330-20-7	
cis-1,2-Dichloroethene	**34.6**	ug/L	5.0	1		03/29/17 18:59	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 18:59	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 18:59	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 18:59	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 18:59	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 18:59	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 18:59	460-00-4	
Toluene-d8 (S)	96	%.	69-124	1		03/29/17 18:59	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**7.6**	ug/L		1		03/29/17 18:59	75-45-6	N
2120B W Apparent Color	Analytical Method: SM22 2120B							
Apparent Color	**10.0**	units	5.0	1		03/26/17 09:04		H1
pH	**6.2**	Std. Units	0.10	1		03/26/17 09:04		H1
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**299**	mg/L	1.0	1		04/04/17 13:26		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Total Hardness	**248**	mg/L	5.0	1		03/30/17 13:54		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: DUPLICATE **Lab ID: 7014155014** Collected: 03/24/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**287**	mg/L	10.0	1		03/30/17 14:28		
Chromium, Hexavalent	Analytical Method: SM22 3500-Cr B							
Chromium, Hexavalent	**<0.020**	mg/L	0.020	1		03/25/17 13:32	18540-29-9	H3
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**13.0**	mg/L	10.0	1	04/05/17 11:15	04/05/17 13:55		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**1.0J**	mg/L	2.0	1	03/26/17 06:24	03/31/17 10:50		H2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.26J**	mg/L	0.50	1		04/04/17 02:05	24959-67-9	
Chloride	**12.4**	mg/L	2.0	1		04/04/17 02:05	16887-00-6	
Sulfate	**6.6**	mg/L	5.0	1		04/04/17 02:05	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.32**	mg/L	0.10	1	04/04/17 07:02	04/04/17 13:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrate-Nitrite (as N)	**0.0064J**	mg/L	0.050	1		03/25/17 21:28	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		03/25/17 20:41	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**<5.0**	ug/L	5.0	1	04/04/17 11:15	04/04/17 15:05		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.19**	mg/L	0.10	1		04/04/17 12:55	7664-41-7	
9014 Cyanide, Total	Analytical Method: EPA 9014 Total Cyanide Preparation Method: EPA 9010C							
Cyanide	**<10.0**	ug/L	10.0	1	03/29/17 09:08	03/29/17 17:11	57-12-5	
9060A Total Organic Carbon	Analytical Method: EPA 9060A							
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 10:12	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 10:12	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 10:12	7440-44-0	
Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 10:12	7440-44-0	
Mean Total Organic Carbon	**<5.0**	mg/L	5.0	5		04/05/17 10:12	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: TRIP BLANK **Lab ID: 7014155015** Collected: 03/24/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 14:48	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/29/17 14:48	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/29/17 14:48	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/29/17 14:48	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/29/17 14:48	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/29/17 14:48	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/29/17 14:48	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/29/17 14:48	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/29/17 14:48	106-93-4	L1
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 14:48	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/29/17 14:48	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/29/17 14:48	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/29/17 14:48	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/29/17 14:48	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/29/17 14:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/29/17 14:48	108-10-1	
Acetone	ND	ug/L	5.0	1		03/29/17 14:48	67-64-1	B
Acrylonitrile	ND	ug/L	5.0	1		03/29/17 14:48	107-13-1	
Benzene	ND	ug/L	5.0	1		03/29/17 14:48	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/29/17 14:48	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/29/17 14:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/29/17 14:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/29/17 14:48	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/29/17 14:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/29/17 14:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/29/17 14:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/29/17 14:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/29/17 14:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/29/17 14:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/29/17 14:48	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/29/17 14:48	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/29/17 14:48	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/29/17 14:48	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/29/17 14:48	75-09-2	
Styrene	ND	ug/L	5.0	1		03/29/17 14:48	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/29/17 14:48	127-18-4	
Toluene	ND	ug/L	5.0	1		03/29/17 14:48	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/29/17 14:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/29/17 14:48	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/29/17 14:48	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/29/17 14:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/29/17 14:48	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 14:48	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 14:48	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/29/17 14:48	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/29/17 14:48	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/29/17 14:48	110-57-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: TRIP BLANK **Lab ID: 7014155015** Collected: 03/24/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/29/17 14:48	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	79-124	1		03/29/17 14:48	460-00-4	
Toluene-d8 (S)	98	%.	69-124	1		03/29/17 14:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: STORAGE BLANK **Lab ID: 7014155016** Collected: 03/25/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/30/17 12:20	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/30/17 12:20	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/30/17 12:20	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/30/17 12:20	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/30/17 12:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/30/17 12:20	75-35-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/30/17 12:20	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/30/17 12:20	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/30/17 12:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/30/17 12:20	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/30/17 12:20	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/30/17 12:20	78-87-5	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/30/17 12:20	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/30/17 12:20	78-93-3	
2-Hexanone	ND	ug/L	5.0	1		03/30/17 12:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/30/17 12:20	108-10-1	
Acetone	ND	ug/L	5.0	1		03/30/17 12:20	67-64-1	
Acrylonitrile	ND	ug/L	5.0	1		03/30/17 12:20	107-13-1	
Benzene	ND	ug/L	5.0	1		03/30/17 12:20	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/30/17 12:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/30/17 12:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/30/17 12:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/30/17 12:20	74-83-9	
Carbon disulfide	ND	ug/L	5.0	1		03/30/17 12:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/30/17 12:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/30/17 12:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/30/17 12:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/30/17 12:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/30/17 12:20	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/30/17 12:20	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		03/30/17 12:20	74-95-3	
Ethylbenzene	ND	ug/L	5.0	1		03/30/17 12:20	100-41-4	
Iodomethane	ND	ug/L	5.0	1		03/30/17 12:20	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/30/17 12:20	75-09-2	
Styrene	ND	ug/L	5.0	1		03/30/17 12:20	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/30/17 12:20	127-18-4	
Toluene	ND	ug/L	5.0	1		03/30/17 12:20	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		03/30/17 12:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/30/17 12:20	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		03/30/17 12:20	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		03/30/17 12:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/30/17 12:20	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/30/17 12:20	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/30/17 12:20	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/30/17 12:20	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/30/17 12:20	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		03/30/17 12:20	110-57-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Sample: STORAGE BLANK **Lab ID: 7014155016** Collected: 03/25/17 00:00 Received: 03/25/17 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	68-153	1		03/30/17 12:20	17060-07-0	
4-Bromofluorobenzene (S)	96	%.	79-124	1		03/30/17 12:20	460-00-4	
Toluene-d8 (S)	98	%.	69-124	1		03/30/17 12:20	2037-26-5	

Pace Analytical Services, LLC
575 Broad Hollow Road
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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18878 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 89938 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	04/05/17 16:22	

LABORATORY CONTROL SAMPLE: 89939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	102	80-120	

MATRIX SPIKE SAMPLE: 89940

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	1	0.80	80	75-125	

SAMPLE DUPLICATE: 89941

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	<0.20	<0.20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18695 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010 MET Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 89130 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<200	200	04/07/17 00:26	
Antimony	ug/L	<60.0	60.0	04/07/17 00:26	
Arsenic	ug/L	<10.0	10.0	04/07/17 00:26	
Barium	ug/L	<200	200	04/07/17 00:26	
Beryllium	ug/L	<5.0	5.0	04/07/17 00:26	
Boron	ug/L	<50.0	50.0	04/07/17 00:26	
Cadmium	ug/L	<2.5	2.5	04/07/17 00:26	
Calcium	ug/L	<200	200	04/07/17 00:26	
Chromium	ug/L	<10.0	10.0	04/07/17 00:26	
Cobalt	ug/L	<50.0	50.0	04/07/17 00:26	
Copper	ug/L	<25.0	25.0	04/07/17 00:26	
Iron	ug/L	<100	100	04/07/17 00:26	
Lead	ug/L	<5.0	5.0	04/07/17 00:26	
Magnesium	ug/L	<200	200	04/07/17 00:26	
Manganese	ug/L	0.92J	10.0	04/07/17 00:26	
Nickel	ug/L	<40.0	40.0	04/07/17 00:26	
Potassium	ug/L	<5000	5000	04/07/17 00:26	
Selenium	ug/L	<10.0	10.0	04/07/17 00:26	
Silver	ug/L	<10.0	10.0	04/07/17 00:26	
Sodium	ug/L	<5000	5000	04/07/17 00:26	
Thallium	ug/L	<10.0	10.0	04/07/17 00:26	
Vanadium	ug/L	<50.0	50.0	04/07/17 00:26	
Zinc	ug/L	<20.0	20.0	04/07/17 00:26	

LABORATORY CONTROL SAMPLE: 89131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5840	117	80-120	
Antimony	ug/L	750	728	97	80-120	
Arsenic	ug/L	500	487	97	80-120	
Barium	ug/L	500	593	119	80-120	
Beryllium	ug/L	50	49.8	100	80-120	
Boron	ug/L	2500	2440	98	80-120	
Cadmium	ug/L	50	49.2	98	80-120	
Calcium	ug/L	25000	29700	119	80-120	
Chromium	ug/L	250	244	97	80-120	
Cobalt	ug/L	500	494	99	80-120	
Copper	ug/L	250	246	98	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

LABORATORY CONTROL SAMPLE: 89131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	2000	2390	119	80-120	
Lead	ug/L	500	492	98	80-120	
Magnesium	ug/L	25000	29400	118	80-120	
Manganese	ug/L	250	245	98	80-120	
Nickel	ug/L	250	247	99	80-120	
Potassium	ug/L	50000	59000	118	80-120	
Selenium	ug/L	750	743	99	80-120	
Silver	ug/L	250	246	98	80-120	
Sodium	ug/L	50000	59400	119	80-120	
Thallium	ug/L	750	751	100	80-120	
Vanadium	ug/L	500	489	98	80-120	
Zinc	ug/L	1000	976	98	80-120	

MATRIX SPIKE SAMPLE: 89133

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	<200	5000	5070	101	75-125	
Antimony	ug/L	<60.0	750	761	102	75-125	
Arsenic	ug/L	14.4	500	525	102	75-125	
Barium	ug/L	124J	500	630	101	75-125	
Beryllium	ug/L	<5.0	50	52.3	105	75-125	
Boron	ug/L	42.8J	2500	2600	102	75-125	
Cadmium	ug/L	<2.5	50	51.6	103	75-125	
Calcium	ug/L	76800	25000	99400	91	75-125	
Chromium	ug/L	1.7J	250	256	102	75-125	
Cobalt	ug/L	9.3J	500	525	103	75-125	
Copper	ug/L	<25.0	250	260	104	75-125	
Iron	ug/L	4170	2000	6070	95	75-125	
Lead	ug/L	1.7J	500	516	103	75-125	
Magnesium	ug/L	11200	25000	36400	101	75-125	
Manganese	ug/L	7020	250	6970	-19	75-125	M1
Nickel	ug/L	5.2J	250	263	103	75-125	
Potassium	ug/L	3510J	50000	50400	94	75-125	
Selenium	ug/L	<10.0	750	780	104	75-125	
Silver	ug/L	<10.0	250	228	91	75-125	
Sodium	ug/L	7130	50000	58600	103	75-125	
Thallium	ug/L	<10.0	750	783	104	75-125	
Vanadium	ug/L	1.3J	500	514	103	75-125	
Zinc	ug/L	<20.0	1000	1030	103	75-125	

SAMPLE DUPLICATE: 89132

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Aluminum	ug/L	<200	<200		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

SAMPLE DUPLICATE: 89132

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	<60.0	<60.0		
Arsenic	ug/L	14.4	16.0	10	
Barium	ug/L	124J	120J		
Beryllium	ug/L	<5.0	<5.0		
Boron	ug/L	42.8J	41.5J		
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	76800	73200	5	
Chromium	ug/L	1.7J	2.1J		
Cobalt	ug/L	9.3J	8.7J		
Copper	ug/L	<25.0	<25.0		
Iron	ug/L	4170	3970	5	
Lead	ug/L	1.7J	<5.0		
Magnesium	ug/L	11200	10700	4	
Manganese	ug/L	7020	6670	5	
Nickel	ug/L	5.2J	5.2J		
Potassium	ug/L	3510J	3140J		
Selenium	ug/L	<10.0	<10.0		
Silver	ug/L	<10.0	<10.0		
Sodium	ug/L	7130	5300	29	D6
Thallium	ug/L	<10.0	<10.0		
Vanadium	ug/L	1.3J	<50.0		
Zinc	ug/L	<20.0	<20.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18532 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014, 7014155015

METHOD BLANK: 88383 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014, 7014155015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/29/17 12:17	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/29/17 12:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/29/17 12:17	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/29/17 12:17	
1,1-Dichloroethane	ug/L	ND	5.0	03/29/17 12:17	
1,1-Dichloroethene	ug/L	ND	5.0	03/29/17 12:17	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/29/17 12:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/29/17 12:17	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/29/17 12:17	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/29/17 12:17	
1,2-Dichloroethane	ug/L	ND	5.0	03/29/17 12:17	
1,2-Dichloropropane	ug/L	ND	5.0	03/29/17 12:17	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/29/17 12:17	
2-Butanone (MEK)	ug/L	ND	5.0	03/29/17 12:17	
2-Hexanone	ug/L	ND	5.0	03/29/17 12:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/29/17 12:17	
Acetone	ug/L	ND	5.0	03/29/17 12:17	
Acrylonitrile	ug/L	ND	5.0	03/29/17 12:17	
Benzene	ug/L	ND	5.0	03/29/17 12:17	
Bromochloromethane	ug/L	ND	5.0	03/29/17 12:17	
Bromodichloromethane	ug/L	ND	5.0	03/29/17 12:17	
Bromoform	ug/L	ND	5.0	03/29/17 12:17	
Bromomethane	ug/L	ND	5.0	03/29/17 12:17	
Carbon disulfide	ug/L	ND	5.0	03/29/17 12:17	
Carbon tetrachloride	ug/L	ND	5.0	03/29/17 12:17	
Chlorobenzene	ug/L	ND	5.0	03/29/17 12:17	
Chloroethane	ug/L	ND	5.0	03/29/17 12:17	
Chloroform	ug/L	ND	5.0	03/29/17 12:17	
Chloromethane	ug/L	ND	5.0	03/29/17 12:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/29/17 12:17	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/29/17 12:17	
Dibromochloromethane	ug/L	ND	5.0	03/29/17 12:17	
Dibromomethane	ug/L	ND	5.0	03/29/17 12:17	
Ethylbenzene	ug/L	ND	5.0	03/29/17 12:17	
Iodomethane	ug/L	ND	5.0	03/29/17 12:17	
Methylene Chloride	ug/L	ND	5.0	03/29/17 12:17	
Styrene	ug/L	ND	5.0	03/29/17 12:17	
Tetrachloroethene	ug/L	ND	5.0	03/29/17 12:17	
Toluene	ug/L	ND	5.0	03/29/17 12:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/29/17 12:17	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

METHOD BLANK: 88383 Matrix: Water

Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014, 7014155015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/29/17 12:17	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	03/29/17 12:17	
Trichloroethene	ug/L	ND	5.0	03/29/17 12:17	
Trichlorofluoromethane	ug/L	ND	5.0	03/29/17 12:17	
Vinyl acetate	ug/L	ND	5.0	03/29/17 12:17	
Vinyl chloride	ug/L	<1.0	1.0	03/29/17 12:17	
Xylene (Total)	ug/L	ND	5.0	03/29/17 12:17	
1,2-Dichloroethane-d4 (S)	%.	101	68-153	03/29/17 12:17	
4-Bromofluorobenzene (S)	%.	100	79-124	03/29/17 12:17	
Toluene-d8 (S)	%.	99	69-124	03/29/17 12:17	

LABORATORY CONTROL SAMPLE: 88384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.5	91	74-113	
1,1,1-Trichloroethane	ug/L	50	46.1	92	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	74-121	
1,1,2-Trichloroethane	ug/L	50	48.3	97	80-117	
1,1-Dichloroethane	ug/L	50	47.1	94	83-151	
1,1-Dichloroethene	ug/L	50	41.4	83	45-146	
1,2,3-Trichloropropane	ug/L	50	48.3	97	71-123	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	74-119	
1,2-Dibromoethane (EDB)	ug/L	50	58.9	118	83-115	L1
1,2-Dichlorobenzene	ug/L	50	45.0	90	74-113	
1,2-Dichloroethane	ug/L	50	48.0	96	74-129	
1,2-Dichloropropane	ug/L	50	47.3	95	75-117	
1,4-Dichlorobenzene	ug/L	50	44.7	89	71-113	
2-Butanone (MEK)	ug/L	50	52.7	105	44-162	
2-Hexanone	ug/L	50	45.4	91	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.2	100	69-132	
Acetone	ug/L	50	48.4	97	23-188	
Acrylonitrile	ug/L	50	49.2	98	59-148	
Benzene	ug/L	50	45.2	90	73-119	
Bromochloromethane	ug/L	50	48.6	97	81-116	
Bromodichloromethane	ug/L	50	51.6	103	78-117	
Bromoform	ug/L	50	44.2	88	65-122	
Bromomethane	ug/L	50	40.7	81	52-147	
Carbon disulfide	ug/L	50	40.0	80	41-144	
Carbon tetrachloride	ug/L	50	47.4	95	59-120	
Chlorobenzene	ug/L	50	45.1	90	75-113	
Chloroethane	ug/L	50	42.2	84	49-151	
Chloroform	ug/L	50	46.7	93	72-122	
Chloromethane	ug/L	50	35.7	71	46-144	CC

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

LABORATORY CONTROL SAMPLE: 88384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	46.1	92	72-121	
cis-1,3-Dichloropropene	ug/L	50	55.2	110	78-116	
Dibromochloromethane	ug/L	50	54.9	110	70-120	
Dibromomethane	ug/L	50	47.0	94	75-125	
Ethylbenzene	ug/L	50	43.4	87	70-113	
Iodomethane	ug/L	50	44.7	89	61-144	
Methylene Chloride	ug/L	50	47.3	95	61-142	
Styrene	ug/L	50	46.5	93	72-118	
Tetrachloroethene	ug/L	50	39.7	79	60-128	
Toluene	ug/L	50	44.8	90	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.5	87	56-142	
trans-1,3-Dichloropropene	ug/L	50	48.8	98	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	53.7	107	71-121	
Trichloroethene	ug/L	50	42.9	86	69-117	
Trichlorofluoromethane	ug/L	50	38.5	77	27-173	
Vinyl acetate	ug/L	50	64.6	129	20-158	
Vinyl chloride	ug/L	50	37.2	74	43-143	
Xylene (Total)	ug/L	150	132	88	71-109	
1,2-Dichloroethane-d4 (S)	%.			102	68-153	
4-Bromofluorobenzene (S)	%.			100	79-124	
Toluene-d8 (S)	%.			99	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88385 88386

Parameter	Units	7014155013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	39.5	40.7	79	81	74-113	3	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	47.8	47.9	96	96	65-118	0	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	48.0	45.5	96	91	74-121	5	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	47.8	44.7	96	89	80-117	7	
1,1-Dichloroethane	ug/L	1.1	50	50	50.3	47.2	98	92	83-151	6	
1,1-Dichloroethene	ug/L	<1.0	50	50	45.4	43.6	91	87	45-146	4	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	46.4	44.8	93	90	71-123	4	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	43.4	44.1	87	88	74-119	2	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	56.3	52.7	113	105	83-115	7	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	42.9	42.4	86	85	74-113	1	
1,2-Dichloroethane	ug/L	<1.0	50	50	47.6	44.0	95	88	74-129	8	
1,2-Dichloropropane	ug/L	<1.0	50	50	48.6	45.4	97	91	75-117	7	
1,4-Dichlorobenzene	ug/L	1.1	50	50	42.0	42.3	82	82	71-113	1	
2-Butanone (MEK)	ug/L	<1.0	50	50	49.3	45.3	99	91	44-162	8	
2-Hexanone	ug/L	<1.0	50	50	44.0	40.7	88	81	32-183	8	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	50	50	50.8	47.2	102	94	69-132	7	
Acetone	ug/L	1.4J	50	50	45.7	41.7	89	80	23-188	9	
Acrylonitrile	ug/L	<1.0	50	50	49.3	44.8	99	90	59-148	10	
Benzene	ug/L	1.6	50	50	48.9	46.0	95	89	73-119	6	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		88385			88386						
Parameter	Units	7014155013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromochloromethane	ug/L	<1.0	50	50	46.2	43.0	92	86	81-116	7	
Bromodichloromethane	ug/L	<1.0	50	50	47.2	46.9	94	94	78-117	1	
Bromoform	ug/L	<1.0	50	50	36.2	37.4	72	75	65-122	3	
Bromomethane	ug/L	<1.0	50	50	38.9	38.3	78	77	52-147	2	
Carbon disulfide	ug/L	<1.0	50	50	44.3	42.4	89	85	41-144	4	
Carbon tetrachloride	ug/L	<1.0	50	50	46.4	49.8	93	100	59-120	7	
Chlorobenzene	ug/L	2.8	50	50	45.9	44.5	86	83	75-113	3	
Chloroethane	ug/L	<1.0	50	50	46.1	42.8	92	86	49-151	7	
Chloroform	ug/L	<1.0	50	50	47.0	44.4	94	89	72-122	6	
Chloromethane	ug/L	<1.0	50	50	38.9	36.3	78	73	46-144	7	CC
cis-1,2-Dichloroethene	ug/L	5.8	50	50	52.4	48.9	93	86	72-121	7	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	51.5	49.7	103	99	78-116	4	
Dibromochloromethane	ug/L	<1.0	50	50	44.3	46.5	89	93	70-120	5	
Dibromomethane	ug/L	<1.0	50	50	46.0	43.1	92	86	75-125	6	
Ethylbenzene	ug/L	<1.0	50	50	42.9	42.1	86	84	70-113	2	
Iodomethane	ug/L	<1.0	50	50	47.2	43.1	94	86	61-144	9	
Methylene Chloride	ug/L	<1.0	50	50	47.1	43.8	94	88	61-142	7	
Styrene	ug/L	<1.0	50	50	43.8	42.3	88	85	72-118	3	
Tetrachloroethene	ug/L	<1.0	50	50	38.5	39.0	77	78	60-128	1	
Toluene	ug/L	<1.0	50	50	45.7	43.8	91	88	72-119	4	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	46.0	43.3	92	87	56-142	6	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	45.3	45.0	91	90	79-116	1	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	49.8	48.6	100	97	71-121	2	
Trichloroethene	ug/L	1.3	50	50	46.9	44.4	91	86	69-117	6	
Trichlorofluoromethane	ug/L	<1.0	50	50	43.8	42.8	88	86	27-173	2	
Vinyl acetate	ug/L	<1.0	50	50	51.3	51.3	103	103	20-158	0	
Vinyl chloride	ug/L	2.8	50	50	46.1	43.7	86	82	43-143	5	
Xylene (Total)	ug/L	<1.0	150	150	128	126	85	84	71-109	2	
1,2-Dichloroethane-d4 (S)	%.						102	102	68-153		
4-Bromofluorobenzene (S)	%.						98	99	79-124		
Toluene-d8 (S)	%.						97	98	69-124		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18659
QC Batch Method: EPA 8260C/5030C
Associated Lab Samples: 7014155016

Analysis Method: EPA 8260C/5030C
Analysis Description: 8260 MSV

METHOD BLANK: 88938
Associated Lab Samples: 7014155016

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/30/17 10:38	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/30/17 10:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/30/17 10:38	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/30/17 10:38	
1,1-Dichloroethane	ug/L	ND	5.0	03/30/17 10:38	
1,1-Dichloroethene	ug/L	ND	5.0	03/30/17 10:38	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/30/17 10:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/30/17 10:38	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/30/17 10:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/30/17 10:38	
1,2-Dichloroethane	ug/L	ND	5.0	03/30/17 10:38	
1,2-Dichloropropane	ug/L	ND	5.0	03/30/17 10:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/30/17 10:38	
2-Butanone (MEK)	ug/L	ND	5.0	03/30/17 10:38	
2-Hexanone	ug/L	ND	5.0	03/30/17 10:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/30/17 10:38	
Acetone	ug/L	ND	5.0	03/30/17 10:38	
Acrylonitrile	ug/L	ND	5.0	03/30/17 10:38	
Benzene	ug/L	ND	5.0	03/30/17 10:38	
Bromochloromethane	ug/L	ND	5.0	03/30/17 10:38	
Bromodichloromethane	ug/L	ND	5.0	03/30/17 10:38	
Bromoform	ug/L	ND	5.0	03/30/17 10:38	
Bromomethane	ug/L	ND	5.0	03/30/17 10:38	
Carbon disulfide	ug/L	ND	5.0	03/30/17 10:38	
Carbon tetrachloride	ug/L	ND	5.0	03/30/17 10:38	
Chlorobenzene	ug/L	ND	5.0	03/30/17 10:38	
Chloroethane	ug/L	ND	5.0	03/30/17 10:38	
Chloroform	ug/L	ND	5.0	03/30/17 10:38	
Chloromethane	ug/L	ND	5.0	03/30/17 10:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/30/17 10:38	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/30/17 10:38	
Dibromochloromethane	ug/L	ND	5.0	03/30/17 10:38	
Dibromomethane	ug/L	ND	5.0	03/30/17 10:38	
Ethylbenzene	ug/L	ND	5.0	03/30/17 10:38	
Iodomethane	ug/L	ND	5.0	03/30/17 10:38	
Methylene Chloride	ug/L	ND	5.0	03/30/17 10:38	
Styrene	ug/L	ND	5.0	03/30/17 10:38	
Tetrachloroethene	ug/L	ND	5.0	03/30/17 10:38	
Toluene	ug/L	ND	5.0	03/30/17 10:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/30/17 10:38	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/30/17 10:38	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

METHOD BLANK: 88938 Matrix: Water
Associated Lab Samples: 7014155016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	03/30/17 10:38	
Trichloroethene	ug/L	ND	5.0	03/30/17 10:38	
Trichlorofluoromethane	ug/L	ND	5.0	03/30/17 10:38	
Vinyl acetate	ug/L	ND	5.0	03/30/17 10:38	
Vinyl chloride	ug/L	<1.0	1.0	03/30/17 10:38	
Xylene (Total)	ug/L	ND	5.0	03/30/17 10:38	
1,2-Dichloroethane-d4 (S)	%.	103	68-153	03/30/17 10:38	
4-Bromofluorobenzene (S)	%.	99	79-124	03/30/17 10:38	
Toluene-d8 (S)	%.	97	69-124	03/30/17 10:38	

LABORATORY CONTROL SAMPLE: 88939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.0	90	74-113	
1,1,1-Trichloroethane	ug/L	50	53.4	107	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	47.3	95	74-121	
1,1,2-Trichloroethane	ug/L	50	45.6	91	80-117	
1,1-Dichloroethane	ug/L	50	49.6	99	83-151	
1,1-Dichloroethene	ug/L	50	49.0	98	45-146	
1,2,3-Trichloropropane	ug/L	50	45.9	92	71-123	
1,2-Dibromo-3-chloropropane	ug/L	50	47.8	96	74-119	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	83-115	
1,2-Dichlorobenzene	ug/L	50	46.3	93	74-113	
1,2-Dichloroethane	ug/L	50	47.1	94	74-129	
1,2-Dichloropropane	ug/L	50	48.5	97	75-117	
1,4-Dichlorobenzene	ug/L	50	45.7	91	71-113	
2-Butanone (MEK)	ug/L	50	48.0	96	44-162	
2-Hexanone	ug/L	50	41.1	82	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	47.9	96	69-132	
Acetone	ug/L	50	41.0	82	23-188	
Acrylonitrile	ug/L	50	46.7	93	59-148	
Benzene	ug/L	50	47.4	95	73-119	
Bromochloromethane	ug/L	50	45.9	92	81-116	
Bromodichloromethane	ug/L	50	51.8	104	78-117	
Bromoform	ug/L	50	42.0	84	65-122	
Bromomethane	ug/L	50	41.2	82	52-147	
Carbon disulfide	ug/L	50	46.6	93	41-144	
Carbon tetrachloride	ug/L	50	59.5	119	59-120	CC
Chlorobenzene	ug/L	50	44.4	89	75-113	
Chloroethane	ug/L	50	46.7	93	49-151	
Chloroform	ug/L	50	47.5	95	72-122	
Chloromethane	ug/L	50	41.6	83	46-144	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	72-121	
cis-1,3-Dichloropropene	ug/L	50	54.6	109	78-116	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

LABORATORY CONTROL SAMPLE: 88939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.9	104	70-120	
Dibromomethane	ug/L	50	44.9	90	75-125	
Ethylbenzene	ug/L	50	45.5	91	70-113	
Iodomethane	ug/L	50	47.0	94	61-144	
Methylene Chloride	ug/L	50	45.6	91	61-142	
Styrene	ug/L	50	45.9	92	72-118	
Tetrachloroethene	ug/L	50	45.0	90	60-128	
Toluene	ug/L	50	46.6	93	72-119	
trans-1,2-Dichloroethene	ug/L	50	47.0	94	56-142	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	55.5	111	71-121	
Trichloroethene	ug/L	50	47.3	95	69-117	
Trichlorofluoromethane	ug/L	50	50.0	100	27-173	
Vinyl acetate	ug/L	50	62.0	124	20-158	
Vinyl chloride	ug/L	50	47.0	94	43-143	
Xylene (Total)	ug/L	150	136	91	71-109	
1,2-Dichloroethane-d4 (S)	%.			101	68-153	
4-Bromofluorobenzene (S)	%.			99	79-124	
Toluene-d8 (S)	%.			97	69-124	

MATRIX SPIKE SAMPLE: 89266

Parameter	Units	7014353009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	39.2	78	74-113	
1,1,1-Trichloroethane	ug/L	ND	50	48.1	96	65-118	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	47.7	95	74-121	
1,1,2-Trichloroethane	ug/L	ND	50	44.8	90	80-117	
1,1-Dichloroethane	ug/L	ND	50	49.8	100	83-151	
1,1-Dichloroethene	ug/L	ND	50	45.5	91	45-146	
1,2,3-Trichloropropane	ug/L	ND	50	46.8	94	71-123	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	46.7	93	74-119	
1,2-Dibromoethane (EDB)	ug/L	ND	50	52.2	104	83-115	
1,2-Dichlorobenzene	ug/L	ND	50	43.2	86	74-113	
1,2-Dichloroethane	ug/L	ND	50	47.2	94	74-129	
1,2-Dichloropropane	ug/L	ND	50	47.8	96	75-117	
1,4-Dichlorobenzene	ug/L	ND	50	43.7	85	71-113	
2-Butanone (MEK)	ug/L	ND	50	54.0	108	44-162	
2-Hexanone	ug/L	ND	50	45.2	90	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	52.1	104	69-132	
Acetone	ug/L	ND	50	44.8	82	23-188	
Acrylonitrile	ug/L	ND	50	49.0	98	59-148	
Benzene	ug/L	ND	50	46.6	93	73-119	
Bromochloromethane	ug/L	ND	50	42.8	86	81-116	
Bromodichloromethane	ug/L	ND	50	47.3	95	78-117	
Bromoform	ug/L	ND	50	35.0	70	65-122	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

MATRIX SPIKE SAMPLE: 89266

Parameter	Units	7014353009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	50	20.5	41	52-147	M1
Carbon disulfide	ug/L	ND	50	44.6	89	41-144	
Carbon tetrachloride	ug/L	ND	50	49.2	98	59-120	CC
Chlorobenzene	ug/L	ND	50	42.1	84	75-113	
Chloroethane	ug/L	ND	50	45.8	89	49-151	
Chloroform	ug/L	ND	50	46.4	93	72-122	
Chloromethane	ug/L	ND	50	37.9	76	46-144	
cis-1,2-Dichloroethene	ug/L	ND	50	45.6	91	72-121	
cis-1,3-Dichloropropene	ug/L	ND	50	51.4	103	78-116	
Dibromochloromethane	ug/L	ND	50	42.8	86	70-120	
Dibromomethane	ug/L	ND	50	43.1	86	75-125	
Ethylbenzene	ug/L	ND	50	42.8	86	70-113	
Iodomethane	ug/L	ND	50	25.7	51	61-144	M1
Methylene Chloride	ug/L	ND	50	43.5	87	61-142	
Styrene	ug/L	ND	50	42.9	86	72-118	
Tetrachloroethene	ug/L	ND	50	39.2	78	60-128	
Toluene	ug/L	ND	50	44.5	89	72-119	
trans-1,2-Dichloroethene	ug/L	ND	50	44.9	90	56-142	
trans-1,3-Dichloropropene	ug/L	ND	50	45.3	91	79-116	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	53.1	106	71-121	
Trichloroethene	ug/L	ND	50	45.0	90	69-117	
Trichlorofluoromethane	ug/L	ND	50	44.9	90	27-173	
Vinyl acetate	ug/L	ND	50	64.3	129	20-158	
Vinyl chloride	ug/L	ND	50	43.2	86	43-143	
Xylene (Total)	ug/L	ND	150	127	85	71-109	
1,2-Dichloroethane-d4 (S)	%.				104	68-153	
4-Bromofluorobenzene (S)	%.				98	79-124	
Toluene-d8 (S)	%.				95	69-124	

SAMPLE DUPLICATE: 89267

Parameter	Units	7014353010 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	1.1J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

SAMPLE DUPLICATE: 89267

Parameter	Units	7014353010 Result	Dup Result	RPD	Qualifiers
2-Butanone (MEK)	ug/L	16.6	17.2	3	
2-Hexanone	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.7J	3	
Acetone	ug/L	48.3	49.8	3	
Acrylonitrile	ug/L	ND	ND		
Benzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon disulfide	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	1.4J	3	
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Iodomethane	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	<1.0		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%.	105	106	1	
4-Bromofluorobenzene (S)	%.	98	98	0	
Toluene-d8 (S)	%.	96	96	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18159 Analysis Method: SM22 2120B
QC Batch Method: SM22 2120B Analysis Description: 2120B Color
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 86914 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Apparent Color	units	<5.0	5.0	03/26/17 07:18	

LABORATORY CONTROL SAMPLE: 86915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Apparent Color	units	40	40.0	100	90-110	

SAMPLE DUPLICATE: 86916

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.2	6.2	0	
True Color	units	10.0	10.0	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18651 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004

METHOD BLANK: 88915 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	04/03/17 15:06	

LABORATORY CONTROL SAMPLE: 88916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.0	96	80-120	

MATRIX SPIKE SAMPLE: 90582

Parameter	Units	7014155004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	179	50	229	100	75-125	

SAMPLE DUPLICATE: 90581

Parameter	Units	7014155004 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	179	164	9	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19126 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7014155005, 7014155006, 7014155007, 7014155008

METHOD BLANK: 90969 Matrix: Water
Associated Lab Samples: 7014155005, 7014155006, 7014155007, 7014155008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	04/04/17 09:14	

LABORATORY CONTROL SAMPLE: 90970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.5	102	80-120	

MATRIX SPIKE SAMPLE: 90972

Parameter	Units	7014155008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	217	50	208	-18	75-125	M1

SAMPLE DUPLICATE: 90971

Parameter	Units	7014155008 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	217	194	11	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19138 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 90988 Matrix: Water
Associated Lab Samples: 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	04/04/17 12:25	

LABORATORY CONTROL SAMPLE: 90989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	24.7	99	80-120	

MATRIX SPIKE SAMPLE: 90991

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	266	50	240	-51	75-125	M1

MATRIX SPIKE SAMPLE: 90993

Parameter	Units	7014246001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	47.4	50	98.2	102	75-125	

SAMPLE DUPLICATE: 90990

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	266	240	10	

SAMPLE DUPLICATE: 90992

Parameter	Units	7014246001 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	47.4	54.4	14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18686 Analysis Method: SM22 2340C
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 89097 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Hardness	mg/L	<5.0	5.0	03/30/17 13:26	

LABORATORY CONTROL SAMPLE: 89098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Hardness	mg/L	1000	1010	101	90-110	

MATRIX SPIKE SAMPLE: 89099

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Hardness	mg/L	228	400	628	100	75-125	

SAMPLE DUPLICATE: 89100

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Total Hardness	mg/L	228	224	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18672 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 88967 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	03/30/17 14:18	

LABORATORY CONTROL SAMPLE: 88968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	530	106	85-115	

MATRIX SPIKE SAMPLE: 88970

Parameter	Units	7014155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	349	300	658	103	75-125	

MATRIX SPIKE SAMPLE: 88972

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	290	300	628	113	75-125	

SAMPLE DUPLICATE: 88969

Parameter	Units	7014155001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	349	367	5	

SAMPLE DUPLICATE: 88971

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	290	284	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18153 Analysis Method: SM22 3500-Cr B
QC Batch Method: SM22 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 86871 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.020	03/25/17 13:15	

LABORATORY CONTROL SAMPLE: 86872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.2	0.20	102	85-115	

MATRIX SPIKE SAMPLE: 86873

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	.2	0.20	101	75-125	

SAMPLE DUPLICATE: 86874

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Chromium, Hexavalent	mg/L	<0.020	0.0099J		

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18658 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008

METHOD BLANK: 88934 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	03/30/17 14:42	

LABORATORY CONTROL SAMPLE: 88935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	521	104	90-110	

MATRIX SPIKE SAMPLE: 88936

Parameter	Units	7014050002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	2190	5000	7140	99	90-110	

SAMPLE DUPLICATE: 88937

Parameter	Units	7014050002 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2190	2270	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19357 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 91896 Matrix: Water
Associated Lab Samples: 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	04/05/17 13:52	

LABORATORY CONTROL SAMPLE: 91897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	504	101	90-110	

MATRIX SPIKE SAMPLE: 91898

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	23.4	1000	1060	103	90-110	

MATRIX SPIKE SAMPLE: 91900

Parameter	Units	7014246001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.9	1000	1070	104	90-110	

SAMPLE DUPLICATE: 91899

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	23.4	33.8	36	D6

SAMPLE DUPLICATE: 91901

Parameter	Units	7014246001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	35.9	33.8	6	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18161 Analysis Method: SM22 5210B
QC Batch Method: SM22 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 86920 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	03/31/17 09:51	

LABORATORY CONTROL SAMPLE: 86921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	219	111	84.5-115.4	

SAMPLE DUPLICATE: 86922

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	1.2J	1.4J		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19028 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 90530 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	04/03/17 17:04	
Chloride	mg/L	<2.0	2.0	04/03/17 17:04	
Sulfate	mg/L	<5.0	5.0	04/03/17 17:04	

LABORATORY CONTROL SAMPLE: 90531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	0.99	99	90-110	
Chloride	mg/L	10	10.5	105	90-110	
Sulfate	mg/L	10	10.5	105	90-110	

MATRIX SPIKE SAMPLE: 90532

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.17J	1	1.1	91	80-120	
Chloride	mg/L	4.7	10	15.0	103	80-120	
Sulfate	mg/L	7.9	10	18.5	106	80-120	

MATRIX SPIKE SAMPLE: 90534

Parameter	Units	7014619001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	1	1.1	110	80-120	
Chloride	mg/L	43.3	10	53.6	102	80-120	E
Sulfate	mg/L	42.4	10	52.1	97	80-120	E

SAMPLE DUPLICATE: 90533

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.17J	0.19J		
Chloride	mg/L	4.7	4.8	2	
Sulfate	mg/L	7.9	7.8	0	

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

SAMPLE DUPLICATE: 90535

Parameter	Units	7014619001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	ND	<0.50		
Chloride	mg/L	43.3	43.5	0	
Sulfate	mg/L	42.4	42.5	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19119 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008

METHOD BLANK: 90947 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	04/04/17 12:30	

LABORATORY CONTROL SAMPLE: 90948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.0	99	90-110	

MATRIX SPIKE SAMPLE: 90949

Parameter	Units	7014250002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.9	4	6.1	105	90-110	

MATRIX SPIKE SAMPLE: 90951

Parameter	Units	7014330002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	4	5.6	98	90-110	

SAMPLE DUPLICATE: 90950

Parameter	Units	7014250002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.9	1.8	1	

SAMPLE DUPLICATE: 90952

Parameter	Units	7014330002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.7	1.6	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19120 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 90953 Matrix: Water
Associated Lab Samples: 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	04/04/17 12:56	

LABORATORY CONTROL SAMPLE: 90954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	4.0	101	90-110	

MATRIX SPIKE SAMPLE: 90955

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.6	4	5.8	105	90-110	

MATRIX SPIKE SAMPLE: 90957

Parameter	Units	7014246001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.0	4	5.0	100	90-110	M1

SAMPLE DUPLICATE: 90956

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.6	1.3	17	

SAMPLE DUPLICATE: 90958

Parameter	Units	7014246001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.0	1.0	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18155 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 86900 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	03/25/17 20:18	

LABORATORY CONTROL SAMPLE: 86901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 86902

Parameter	Units	7014155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.53	105	90-110	

MATRIX SPIKE SAMPLE: 86906

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.52	104	90-110	

SAMPLE DUPLICATE: 86903

Parameter	Units	7014155001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 86907

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18156 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 86908 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	03/25/17 21:04	

LABORATORY CONTROL SAMPLE: 86909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 86910

Parameter	Units	7014155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.090	.5	0.50	82	90-110	M1

MATRIX SPIKE SAMPLE: 86912

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.032J	.5	0.49	91	90-110	

SAMPLE DUPLICATE: 86911

Parameter	Units	7014155001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.090	0.090	0	

SAMPLE DUPLICATE: 86913

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.032J	<0.050		

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REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18816 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010

METHOD BLANK: 89606 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	03/31/17 15:05	

LABORATORY CONTROL SAMPLE: 89607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	28.2	94	90-110	

MATRIX SPIKE SAMPLE: 89608

Parameter	Units	7014479001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	20	22.4	99	75-125	

MATRIX SPIKE SAMPLE: 89610

Parameter	Units	7014155010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	1.5J	20	22.4	105	75-125	

SAMPLE DUPLICATE: 89609

Parameter	Units	7014479001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	1.5J		

SAMPLE DUPLICATE: 89611

Parameter	Units	7014155010 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	1.5J	2.1J		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19004 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7014155011, 7014155012

METHOD BLANK: 90350 Matrix: Water
Associated Lab Samples: 7014155011, 7014155012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	04/03/17 12:47	

LABORATORY CONTROL SAMPLE: 90351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	28.7	96	90-110	

LABORATORY CONTROL SAMPLE: 90352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	28.2	94	90-110	

LABORATORY CONTROL SAMPLE: 90353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	27.7	92	90-110	

LABORATORY CONTROL SAMPLE: 90354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	28.2	94	90-110	

MATRIX SPIKE SAMPLE: 90356

Parameter	Units	7014592001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	20	22.4	112	75-125	

SAMPLE DUPLICATE: 90355

Parameter	Units	7014592001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19189 — Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 — Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7014155013, 7014155014

METHOD BLANK: 91234 — Matrix: Water
Associated Lab Samples: 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	04/04/17 14:56	

LABORATORY CONTROL SAMPLE: 91235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	31.8	106	90-110	

MATRIX SPIKE SAMPLE: 91236

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	2.1J	20	26.6	123	75-125	

MATRIX SPIKE SAMPLE: 91238

Parameter	Units	7014246001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	20	23.5	115	75-125	

SAMPLE DUPLICATE: 91237

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	2.1J	<5.0		

SAMPLE DUPLICATE: 91239

Parameter	Units	7014246001 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

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REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 19142 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 91013 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.10	0.10	04/04/17 12:29	

LABORATORY CONTROL SAMPLE: 91014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 91015

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.86	1	1.5	68	75-125	M1

SAMPLE DUPLICATE: 91016

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.86	0.74	14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 18495 Analysis Method: EPA 9014 Total Cyanide
QC Batch Method: EPA 9010C Analysis Description: 9014 Cyanide, Total
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 88231 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004, 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<10.0	10.0	03/29/17 17:03	

LABORATORY CONTROL SAMPLE: 88232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	75	74.9	100	85-115	

MATRIX SPIKE SAMPLE: 88233

Parameter	Units	7014155013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	<10.0	100	96.1	95	75-125	

SAMPLE DUPLICATE: 88234

Parameter	Units	7014155013 Result	Dup Result	RPD	Qualifiers
Cyanide	ug/L	<10.0	<10.0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 254251 Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A Analysis Description: 9060A TOC
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004

METHOD BLANK: 1251946 Matrix: Water
Associated Lab Samples: 7014155001, 7014155002, 7014155003, 7014155004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	04/04/17 22:21	
Total Organic Carbon	mg/L	<1.0	1.0	04/04/17 22:21	
Total Organic Carbon	mg/L	<1.0	1.0	04/04/17 22:21	
Total Organic Carbon	mg/L	<1.0	1.0	04/04/17 22:21	
Total Organic Carbon	mg/L	<1.0	1.0	04/04/17 22:21	

LABORATORY CONTROL SAMPLE: 1251947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.2	92	85-115	
Total Organic Carbon	mg/L	10	9.6	96	85-115	
Total Organic Carbon	mg/L	10	9.6	96	85-115	
Total Organic Carbon	mg/L	10	8.8	88	85-115	
Total Organic Carbon	mg/L	10	8.8	88	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1251948 1251949

Parameter	Units	7014147003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mean Total Organic Carbon	mg/L	1.3	10	10	11.0	10.7	97	94	85-115	3	
Total Organic Carbon	mg/L	1.4	10	10	11.7	11.0	103	96	85-115	7	
Total Organic Carbon	mg/L	1.4	10	10	11.8	11.2	104	98	85-115	5	
Total Organic Carbon	mg/L	1.2	10	10	10.4	10.3	92	91	85-115	1	
Total Organic Carbon	mg/L	1.2	10	10	10.2	10.5	90	92	85-115	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

QC Batch: 254252 Analysis Method: EPA 9060A
QC Batch Method: EPA 9060A Analysis Description: 9060A TOC
Associated Lab Samples: 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

METHOD BLANK: 1251950 Matrix: Water
Associated Lab Samples: 7014155005, 7014155006, 7014155007, 7014155008, 7014155009, 7014155010, 7014155011, 7014155012, 7014155013, 7014155014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	<1.0	1.0	04/05/17 04:56	
Total Organic Carbon	mg/L	<1.0	1.0	04/05/17 04:56	
Total Organic Carbon	mg/L	<1.0	1.0	04/05/17 04:56	
Total Organic Carbon	mg/L	<1.0	1.0	04/05/17 04:56	
Total Organic Carbon	mg/L	<1.0	1.0	04/05/17 04:56	

LABORATORY CONTROL SAMPLE: 1251951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	10	9.6	96	85-115	
Total Organic Carbon	mg/L	10	10.0	100	85-115	
Total Organic Carbon	mg/L	10	10.1	101	85-115	
Total Organic Carbon	mg/L	10	9.1	91	85-115	
Total Organic Carbon	mg/L	10	9.1	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1251952 1251953

Parameter	Units	7014155013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mean Total Organic Carbon	mg/L	4.2	10	10	10.8	10.9	66	67	85-115	2	ML
Total Organic Carbon	mg/L	4.8	10	10	11.0	11.2	62	63	85-115	1	ML
Total Organic Carbon	mg/L	4.0	10	10	11.6	11.8	76	79	85-115	2	ML
Total Organic Carbon	mg/L	3.7	10	10	9.9	10.2	62	64	85-115	3	ML
Total Organic Carbon	mg/L	4.3	10	10	10.6	10.6	63	63	85-115	0	ML

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PACE-MV	Pace Analytical Services - Melville
PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
CC	The continuing calibration for this compound is outside of method control limits. The result is estimated.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
H2	Extraction or preparation conducted outside EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
N	Tentatively identified compound (TIC) based on mass spectral library search

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014155001	MW-6D	EPA 3005A	18695	EPA 6010C	18708
7014155002	MW-7C	EPA 3005A	18695	EPA 6010C	18708
7014155003	MW-7A	EPA 3005A	18695	EPA 6010C	18708
7014155004	MW-11B	EPA 3005A	18695	EPA 6010C	18708
7014155005	MW-12A	EPA 3005A	18695	EPA 6010C	18708
7014155006	MW-12B	EPA 3005A	18695	EPA 6010C	18708
7014155007	MW-9B	EPA 3005A	18695	EPA 6010C	18708
7014155008	SEED	EPA 3005A	18695	EPA 6010C	18708
7014155009	MW-10B	EPA 3005A	18695	EPA 6010C	18708
7014155010	MW-13	EPA 3005A	18695	EPA 6010C	18708
7014155011	STREAM	EPA 3005A	18695	EPA 6010C	18708
7014155012	MW-14	EPA 3005A	18695	EPA 6010C	18708
7014155013	MW-8B	EPA 3005A	18695	EPA 6010C	18708
7014155014	DUPLICATE	EPA 3005A	18695	EPA 6010C	18708
7014155001	MW-6D	EPA 7470A	18878	EPA 7470A	18887
7014155002	MW-7C	EPA 7470A	18878	EPA 7470A	18887
7014155003	MW-7A	EPA 7470A	18878	EPA 7470A	18887
7014155004	MW-11B	EPA 7470A	18878	EPA 7470A	18887
7014155005	MW-12A	EPA 7470A	18878	EPA 7470A	18887
7014155006	MW-12B	EPA 7470A	18878	EPA 7470A	18887
7014155007	MW-9B	EPA 7470A	18878	EPA 7470A	18887
7014155008	SEED	EPA 7470A	18878	EPA 7470A	18887
7014155009	MW-10B	EPA 7470A	18878	EPA 7470A	18887
7014155010	MW-13	EPA 7470A	18878	EPA 7470A	18887
7014155011	STREAM	EPA 7470A	18878	EPA 7470A	18887
7014155012	MW-14	EPA 7470A	18878	EPA 7470A	18887
7014155013	MW-8B	EPA 7470A	18878	EPA 7470A	18887
7014155014	DUPLICATE	EPA 7470A	18878	EPA 7470A	18887
7014155001	MW-6D	EPA 8260C/5030C	18532		
7014155002	MW-7C	EPA 8260C/5030C	18532		
7014155003	MW-7A	EPA 8260C/5030C	18532		
7014155004	MW-11B	EPA 8260C/5030C	18532		
7014155005	MW-12A	EPA 8260C/5030C	18532		
7014155006	MW-12B	EPA 8260C/5030C	18532		
7014155007	MW-9B	EPA 8260C/5030C	18532		
7014155008	SEED	EPA 8260C/5030C	18532		
7014155009	MW-10B	EPA 8260C/5030C	18532		
7014155010	MW-13	EPA 8260C/5030C	18532		
7014155011	STREAM	EPA 8260C/5030C	18532		
7014155012	MW-14	EPA 8260C/5030C	18532		
7014155013	MW-8B	EPA 8260C/5030C	18532		
7014155014	DUPLICATE	EPA 8260C/5030C	18532		
7014155015	TRIP BLANK	EPA 8260C/5030C	18532		
7014155016	STORAGE BLANK	EPA 8260C/5030C	18659		
7014155001	MW-6D	SM22 2120B	18159		
7014155002	MW-7C	SM22 2120B	18159		
7014155003	MW-7A	SM22 2120B	18159		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014155004	**MW-11B**	SM22 2120B	18159		
7014155005	**MW-12A**	SM22 2120B	18159		
7014155006	**MW-12B**	SM22 2120B	18159		
7014155008	**SEED**	SM22 2120B	18159		
7014155009	**MW-10B**	SM22 2120B	18159		
7014155010	**MW-13**	SM22 2120B	18159		
7014155011	**STREAM**	SM22 2120B	18159		
7014155012	**MW-14**	SM22 2120B	18159		
7014155013	**MW-8B**	SM22 2120B	18159		
7014155014	**DUPLICATE**	SM22 2120B	18159		
7014155001	**MW-6D**	SM22 2320B	18651		
7014155002	**MW-7C**	SM22 2320B	18651		
7014155003	**MW-7A**	SM22 2320B	18651		
7014155004	**MW-11B**	SM22 2320B	18651		
7014155005	**MW-12A**	SM22 2320B	19126		
7014155006	**MW-12B**	SM22 2320B	19126		
7014155007	**MW-9B**	SM22 2320B	19126		
7014155008	**SEED**	SM22 2320B	19126		
7014155009	**MW-10B**	SM22 2320B	19138		
7014155010	**MW-13**	SM22 2320B	19138		
7014155011	**STREAM**	SM22 2320B	19138		
7014155012	**MW-14**	SM22 2320B	19138		
7014155013	**MW-8B**	SM22 2320B	19138		
7014155014	**DUPLICATE**	SM22 2320B	19138		
7014155001	**MW-6D**	SM22 2340C	18686		
7014155002	**MW-7C**	SM22 2340C	18686		
7014155003	**MW-7A**	SM22 2340C	18686		
7014155004	**MW-11B**	SM22 2340C	18686		
7014155005	**MW-12A**	SM22 2340C	18686		
7014155006	**MW-12B**	SM22 2340C	18686		
7014155007	**MW-9B**	SM22 2340C	18686		
7014155008	**SEED**	SM22 2340C	18686		
7014155009	**MW-10B**	SM22 2340C	18686		
7014155010	**MW-13**	SM22 2340C	18686		
7014155011	**STREAM**	SM22 2340C	18686		
7014155012	**MW-14**	SM22 2340C	18686		
7014155013	**MW-8B**	SM22 2340C	18686		
7014155014	**DUPLICATE**	SM22 2340C	18686		
7014155001	**MW-6D**	SM22 2540C	18672		
7014155002	**MW-7C**	SM22 2540C	18672		
7014155003	**MW-7A**	SM22 2540C	18672		
7014155004	**MW-11B**	SM22 2540C	18672		
7014155005	**MW-12A**	SM22 2540C	18672		
7014155006	**MW-12B**	SM22 2540C	18672		
7014155007	**MW-9B**	SM22 2540C	18672		
7014155008	**SEED**	SM22 2540C	18672		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014155009	**MW-10B**	SM22 2540C	18672		
7014155010	**MW-13**	SM22 2540C	18672		
7014155011	**STREAM**	SM22 2540C	18672		
7014155012	**MW-14**	SM22 2540C	18672		
7014155013	**MW-8B**	SM22 2540C	18672		
7014155014	**DUPLICATE**	SM22 2540C	18672		
7014155001	**MW-6D**	SM22 3500-Cr B	18153		
7014155002	**MW-7C**	SM22 3500-Cr B	18153		
7014155003	**MW-7A**	SM22 3500-Cr B	18153		
7014155004	**MW-11B**	SM22 3500-Cr B	18153		
7014155005	**MW-12A**	SM22 3500-Cr B	18153		
7014155006	**MW-12B**	SM22 3500-Cr B	18153		
7014155007	**MW-9B**	SM22 3500-Cr B	18153		
7014155008	**SEED**	SM22 3500-Cr B	18153		
7014155009	**MW-10B**	SM22 3500-Cr B	18153		
7014155010	**MW-13**	SM22 3500-Cr B	18153		
7014155011	**STREAM**	SM22 3500-Cr B	18153		
7014155012	**MW-14**	SM22 3500-Cr B	18153		
7014155013	**MW-8B**	SM22 3500-Cr B	18153		
7014155014	**DUPLICATE**	SM22 3500-Cr B	18153		
7014155001	**MW-6D**	EPA 410.4	18658	EPA 410.4	18717
7014155002	**MW-7C**	EPA 410.4	18658	EPA 410.4	18717
7014155003	**MW-7A**	EPA 410.4	18658	EPA 410.4	18717
7014155004	**MW-11B**	EPA 410.4	18658	EPA 410.4	18717
7014155005	**MW-12A**	EPA 410.4	18658	EPA 410.4	18717
7014155006	**MW-12B**	EPA 410.4	18658	EPA 410.4	18717
7014155007	**MW-9B**	EPA 410.4	18658	EPA 410.4	18717
7014155008	**SEED**	EPA 410.4	18658	EPA 410.4	18717
7014155009	**MW-10B**	EPA 410.4	19357	EPA 410.4	19385
7014155010	**MW-13**	EPA 410.4	19357	EPA 410.4	19385
7014155011	**STREAM**	EPA 410.4	19357	EPA 410.4	19385
7014155012	**MW-14**	EPA 410.4	19357	EPA 410.4	19385
7014155013	**MW-8B**	EPA 410.4	19357	EPA 410.4	19385
7014155014	**DUPLICATE**	EPA 410.4	19357	EPA 410.4	19385
7014155001	**MW-6D**	SM22 5210B	18161	SM22 5210B	18994
7014155002	**MW-7C**	SM22 5210B	18161	SM22 5210B	18994
7014155003	**MW-7A**	SM22 5210B	18161	SM22 5210B	18994
7014155004	**MW-11B**	SM22 5210B	18161	SM22 5210B	18994
7014155005	**MW-12A**	SM22 5210B	18161	SM22 5210B	18994
7014155006	**MW-12B**	SM22 5210B	18161	SM22 5210B	18994
7014155008	**SEED**	SM22 5210B	18161	SM22 5210B	18994
7014155009	**MW-10B**	SM22 5210B	18161	SM22 5210B	18994
7014155010	**MW-13**	SM22 5210B	18161	SM22 5210B	18994
7014155011	**STREAM**	SM22 5210B	18161	SM22 5210B	18994
7014155012	**MW-14**	SM22 5210B	18161	SM22 5210B	18994
7014155013	**MW-8B**	SM22 5210B	18161	SM22 5210B	18994
7014155014	**DUPLICATE**	SM22 5210B	18161	SM22 5210B	18994

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014155001	MW-6D	EPA 300.0	19028		
7014155002	MW-7C	EPA 300.0	19028		
7014155003	MW-7A	EPA 300.0	19028		
7014155004	MW-11B	EPA 300.0	19028		
7014155005	MW-12A	EPA 300.0	19028		
7014155006	MW-12B	EPA 300.0	19028		
7014155007	MW-9B	EPA 300.0	19028		
7014155008	SEED	EPA 300.0	19028		
7014155009	MW-10B	EPA 300.0	19028		
7014155010	MW-13	EPA 300.0	19028		
7014155011	STREAM	EPA 300.0	19028		
7014155012	MW-14	EPA 300.0	19028		
7014155013	MW-8B	EPA 300.0	19028		
7014155014	DUPLICATE	EPA 300.0	19028		
7014155001	MW-6D	EPA 351.2	19119	EPA 351.2	19133
7014155002	MW-7C	EPA 351.2	19119	EPA 351.2	19133
7014155003	MW-7A	EPA 351.2	19119	EPA 351.2	19133
7014155004	MW-11B	EPA 351.2	19119	EPA 351.2	19133
7014155005	MW-12A	EPA 351.2	19119	EPA 351.2	19133
7014155006	MW-12B	EPA 351.2	19119	EPA 351.2	19133
7014155007	MW-9B	EPA 351.2	19119	EPA 351.2	19133
7014155008	SEED	EPA 351.2	19119	EPA 351.2	19133
7014155009	MW-10B	EPA 351.2	19120	EPA 351.2	19134
7014155010	MW-13	EPA 351.2	19120	EPA 351.2	19134
7014155011	STREAM	EPA 351.2	19120	EPA 351.2	19134
7014155012	MW-14	EPA 351.2	19120	EPA 351.2	19134
7014155013	MW-8B	EPA 351.2	19120	EPA 351.2	19134
7014155014	DUPLICATE	EPA 351.2	19120	EPA 351.2	19134
7014155001	MW-6D	EPA 353.2	18156		
7014155002	MW-7C	EPA 353.2	18156		
7014155003	MW-7A	EPA 353.2	18156		
7014155004	MW-11B	EPA 353.2	18156		
7014155005	MW-12A	EPA 353.2	18156		
7014155006	MW-12B	EPA 353.2	18156		
7014155007	MW-9B	EPA 353.2	18156		
7014155008	SEED	EPA 353.2	18156		
7014155009	MW-10B	EPA 353.2	18156		
7014155010	MW-13	EPA 353.2	18156		
7014155011	STREAM	EPA 353.2	18156		
7014155012	MW-14	EPA 353.2	18156		
7014155013	MW-8B	EPA 353.2	18156		
7014155014	DUPLICATE	EPA 353.2	18156		
7014155001	MW-6D	EPA 353.2	18155		
7014155002	MW-7C	EPA 353.2	18155		
7014155003	MW-7A	EPA 353.2	18155		
7014155004	MW-11B	EPA 353.2	18155		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014155005	MW-12A	EPA 353.2	18155		
7014155006	MW-12B	EPA 353.2	18155		
7014155007	MW-9B	EPA 353.2	18155		
7014155008	SEED	EPA 353.2	18155		
7014155009	MW-10B	EPA 353.2	18155		
7014155010	MW-13	EPA 353.2	18155		
7014155011	STREAM	EPA 353.2	18155		
7014155012	MW-14	EPA 353.2	18155		
7014155013	MW-8B	EPA 353.2	18155		
7014155014	DUPLICATE	EPA 353.2	18155		
7014155001	MW-6D	EPA 420.1	18816	EPA 420.1	18868
7014155002	MW-7C	EPA 420.1	18816	EPA 420.1	18868
7014155003	MW-7A	EPA 420.1	18816	EPA 420.1	18868
7014155004	MW-11B	EPA 420.1	18816	EPA 420.1	18868
7014155005	MW-12A	EPA 420.1	18816	EPA 420.1	18868
7014155006	MW-12B	EPA 420.1	18816	EPA 420.1	18868
7014155007	MW-9B	EPA 420.1	18816	EPA 420.1	18868
7014155008	SEED	EPA 420.1	18816	EPA 420.1	18868
7014155009	MW-10B	EPA 420.1	18816	EPA 420.1	18868
7014155010	MW-13	EPA 420.1	18816	EPA 420.1	18868
7014155011	STREAM	EPA 420.1	19004	EPA 420.1	19009
7014155012	MW-14	EPA 420.1	19004	EPA 420.1	19009
7014155013	MW-8B	EPA 420.1	19189	EPA 420.1	19199
7014155014	DUPLICATE	EPA 420.1	19189	EPA 420.1	19199
7014155001	MW-6D	SM22 4500 NH3 H	19142		
7014155002	MW-7C	SM22 4500 NH3 H	19142		
7014155003	MW-7A	SM22 4500 NH3 H	19142		
7014155004	MW-11B	SM22 4500 NH3 H	19142		
7014155005	MW-12A	SM22 4500 NH3 H	19142		
7014155006	MW-12B	SM22 4500 NH3 H	19142		
7014155007	MW-9B	SM22 4500 NH3 H	19142		
7014155008	SEED	SM22 4500 NH3 H	19142		
7014155009	MW-10B	SM22 4500 NH3 H	19142		
7014155010	MW-13	SM22 4500 NH3 H	19142		
7014155011	STREAM	SM22 4500 NH3 H	19142		
7014155012	MW-14	SM22 4500 NH3 H	19142		
7014155013	MW-8B	SM22 4500 NH3 H	19142		
7014155014	DUPLICATE	SM22 4500 NH3 H	19142		
7014155001	MW-6D	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155002	MW-7C	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155003	MW-7A	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155004	MW-11B	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155005	MW-12A	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155006	MW-12B	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155007	MW-9B	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155008	SEED	EPA 9010C	18495	EPA 9014 Total Cyanide	18522

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ischua Landfill-SPRING 2017
Pace Project No.: 7014155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7014155009	**MW-10B**	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155010	**MW-13**	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155011	**STREAM**	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155012	**MW-14**	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155013	**MW-8B**	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155014	**DUPLICATE**	EPA 9010C	18495	EPA 9014 Total Cyanide	18522
7014155001	**MW-6D**	EPA 9060A	254251		
7014155002	**MW-7C**	EPA 9060A	254251		
7014155003	**MW-7A**	EPA 9060A	254251		
7014155004	**MW-11B**	EPA 9060A	254251		
7014155005	**MW-12A**	EPA 9060A	254252		
7014155006	**MW-12B**	EPA 9060A	254252		
7014155007	**MW-9B**	EPA 9060A	254252		
7014155008	**SEED**	EPA 9060A	254252		
7014155009	**MW-10B**	EPA 9060A	254252		
7014155010	**MW-13**	EPA 9060A	254252		
7014155011	**STREAM**	EPA 9060A	254252		
7014155012	**MW-14**	EPA 9060A	254252		
7014155013	**MW-8B**	EPA 9060A	254252		
7014155014	**DUPLICATE**	EPA 9060A	254252		

Sample Condition Upon Receipt

Pace Analytical

WO#: 7014155

PM: JSA Due Date: 04/10/17

CLIENT: LBA-B

Client Name: LBA-B

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional: Proj. Due Date: Proj. Name:

Tracking #: 7787 4060 6004

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: TH077 TH078 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.5, 3.5, 5.8, 5.2, 3.6, 2.8

Date and Initials of person examining contents: JK 3/25/17

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix SL WT OIL	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions: VOA, micro, TOC, O&G	☑Yes ☐No ☐N/A	Initial when completed: / Lot # of added preservative: / Date and Time preservative added:
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.00

APPENDIX D

HISTORICAL ANALYTICAL RESULTS

MW-6A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	ND	ND	ND																																ND
Bromobenzene	ND	ND	ND																																ND
Bromochloromethane	ND	ND	ND																																ND
Bromodichloromethane	ND	ND	ND																																
Bromoform	ND	ND	ND																																
Bromomethane	ND	ND	ND																																ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND																																ND
sec-Butylbenzene	ND	ND	ND																																ND
tert-Butylbenzene	ND	ND	ND																																ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND																																ND
Chlorobenzene	ND	ND	ND																																ND
Chloroethane	ND	ND	ND																																ND
Chloroform	<DL	ND	ND																																
Chloromethane	ND	ND	ND																																ND
2-Chlorotoluene	ND	ND	ND																																ND
4-Chlorotoluene	ND	ND	ND																																ND
Dibromochloromethane	ND	ND	ND																																
1,2-Dibromo-3-chloropropane	ND	ND	ND																																
1,2-Dibromoethane	ND	ND	ND																																
Dibromomethane	ND	ND	ND																																ND
1,2-Dichlorobenzene	ND	ND	ND																																ND
1,3-Dichlorobenzene	ND	ND	ND																																ND
1,4-Dichlorobenzene	ND	ND	ND																																ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND																																ND
1,1-Dichloroethane	ND	ND	ND																																ND
1,2-Dichloroethane	ND	ND	ND																																ND
1,1-Dichloroethene	ND	ND	ND																																ND
cis-1,2-Dichloroethene	ND	ND	ND																																ND
trans-1,2-Dichloroethene	ND	ND	ND																																ND
1,2-Dichloropropane	ND	ND	ND																																ND
1,3-Dichloropropane	ND	ND	ND																																ND
2,2-Dichloropropane	ND	ND	ND																																ND
1,1-Dichloropropene	ND	ND	ND																																ND
cis-1-3-Dichloropropene	ND	ND	ND																																ND
trans-1,3-Dichloropropene	ND	ND	ND																																ND
Ethylbenzene	ND	ND	ND																																ND
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND																																ND
Iodomethane																																			
Isopropylbenzene	ND	ND	ND																																ND
p-Isopropyltoluene	ND	ND	ND																																ND
Methylene chloride	ND	ND	ND																																ND
4-Methyl-2-pentanone																																			
Naphthalene	ND	ND	ND																																ND
n-Propylbenzene	ND	ND	ND																																ND
Styrene	ND	ND	ND																																ND
1,1,1,2-Tetrachloroethane	ND	ND	ND																																ND
1,1,2,2-Tetrachloroethane	ND	ND	ND																																ND
Tetrachloroethene	ND	ND	ND																																ND
Toluene	ND	ND	ND																																ND
1,2,3-Trichlorobenzene	ND	ND	ND																																ND
1,2,4-Trichlorobenzene	ND	ND	ND																																ND
1,1,1-Trichloroethane	ND	ND	ND																																ND
1,1,2-Trichloroethane	ND	ND	ND																																ND
Trichloroethene	ND	ND	ND																																ND
Trichlorofluoromethane	ND	ND	ND																																ND
1,2,3-Trichloropropane	ND	ND	ND																																ND
1,2,4-Trimethylbenzene	ND	ND	ND																																ND
1,3,5-Trimethylbenzene																																			ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	ND																																ND
o-Xylene	ND	ND	ND																																ND
p-Xylene & m-Xylene																																			ND

MW-6A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum																																			
Calcium																																			
Iron																																			
Magnesium																																			
Manganese																																			
Potassium																																			
Sodium																																			
ARAMETER (mg/l) TOXIC METALS																																			
Antimony																																			
Arsenic																																			
Barium																																			
Beryllium																																			
Cadmium																																			
Chromium (Total)																																			
Copper																																			
Lead																																			
Mercury																																			
Nickel																																			
Selenium																																			
Silver																																			
Thallium																																			
Zinc																																			
METER (mg/l) LEACHATE INDICATORS																																			
Alkalinity																																			
Biochemical Oxygen Demand																																			
Boron																																			
Chemical Oxygen Demand																																			
Chromium (Hexavalent)																																			
Chloride																																			
Color (PCU units)																																			
Nitrate-Nitrite																																			
Nitrogen-Ammonia																																			
Phenols																																			
Sulfate																																			
Total Organic Carbon (TOC)																																			5.2
Total Dissolved Solids (TDS)																																			
Total Hardness																																			
Total Kjeldahl Nitrogen (TKN)																																			
Turbidity (NTU units)																																			
Cyanide																																			

MW-6A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	6/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER VOLATILES (ug/L)																																
Acetone							ND	ND	ND	ND		2.4						ND				-	-	-	-	-	-	-	-	0.16	50.0
Acrylonitrile							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Benzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	1.0
Bromobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Bromochloromethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Bromodichloromethane				ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	50.0
Bromoform				ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	50.0
Bromomethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
2-Butanone							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	50.0
n-Butylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
sec-Butylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
tert-Butylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Carbon disulfide							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	60.0
Carbon tetrachloride		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Chlorobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Chloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Chloroform				ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	7.0
Chloromethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
2-Chlorotoluene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
4-Chlorotoluene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Dibromochloromethane				ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	50.0
1,2-Dibromo-3-chloropropane				ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	0.04
1,2-Dibromoethane				ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Dibromomethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,2-Dichlorobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	3.0
1,3-Dichlorobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	3.0
1,4-Dichlorobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	3.0
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Dichlorodifluoromethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,1-Dichloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,2-Dichloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	0.6
1,1-Dichloroethene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
cis-1,2-Dichloroethene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
trans-1,2-Dichloroethene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,2-Dichloropropane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	1.0
1,3-Dichloropropane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
2,2-Dichloropropane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,1-Dichloropropene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
cis-1-3-Dichloropropene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	0.4*
trans-1,3-Dichloropropene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	0.4*
Ethylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
2-Hexanone							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	50.0
Hexachlorobutadiene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	0.5
Iodomethane							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Isopropylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
p-Isopropyltoluene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Methylene chloride		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
4-Methyl-2-pentanone							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	
Naphthalene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	10.0**
n-Propylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Styrene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,1,1,2-Tetrachloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,1,2,2-Tetrachloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Tetrachloroethene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Toluene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,2,3-Trichlorobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,2,4-Trichlorobenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,1,1-Trichloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,1,2-Trichloroethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	1.0
Trichloroethene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Trichlorofluoromethane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,2,3-Trichloropropane		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	0.04
1,2,4-Trimethylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
1,3,5-Trimethylbenzene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
Vinyl acetate							ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	
Vinyl chloride		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	2.0
o-Xylene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0
p-Xylene & m-Xylene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	0	5.0

MW-6A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	6/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum																		0				-	-	-	-	-	-	-	-	-	0	
Calcium										78.6								0				-	-	-	-	-	-	-	-	-	7.145	
Iron										11								0				-	-	-	-	-	-	-	-	-	1	0.3
Magnesium										23.3								0				-	-	-	-	-	-	-	-	-	2.118	35.0
Manganese										0.36								0				-	-	-	-	-	-	-	-	-	0.033	0.3
Potassium										4.6								0				-	-	-	-	-	-	-	-	-	0.418	
Sodium										4.9								0				-	-	-	-	-	-	-	-	-	0.445	20.0
ARAMETER (mg/l) TOXIC METAL																																
Antimony																		0				-	-	-	-	-	-	-	-	-	0	0.003
Arsenic																		0				-	-	-	-	-	-	-	-	-	0	0.025
Barium																		0				-	-	-	-	-	-	-	-	-	0	1.0
Beryllium																		0				-	-	-	-	-	-	-	-	-	0	
Cadmium										ND								0				-	-	-	-	-	-	-	-	-	0	0.005
Chromium (Total)																		0				-	-	-	-	-	-	-	-	-	0	0.05
Copper																		0				-	-	-	-	-	-	-	-	-	0	0.2
Lead										0.015								0				-	-	-	-	-	-	-	-	-	0.001	0.025
Mercury																		0				-	-	-	-	-	-	-	-	-	0	0.0007
Nickel																		0				-	-	-	-	-	-	-	-	-	0	0.1
Selenium																		0				-	-	-	-	-	-	-	-	-	0	0.0
Silver																		0				-	-	-	-	-	-	-	-	-	0	0.05
Thallium																		0				-	-	-	-	-	-	-	-	-	0	0.0005
Zinc																		0				-	-	-	-	-	-	-	-	-	0	2.0
METER (mg/l) LEACHATE INDICA																																
Alkalinity																		0				-	-	-	-	-	-	-	-	-	0	
Biochemical Oxygen Demand																		0				-	-	-	-	-	-	-	-	-	0	
Boron																		0				-	-	-	-	-	-	-	-	-	0	1.0
Chemical Oxygen Demand																		0				-	-	-	-	-	-	-	-	-	0	
Chromium (Hexavalent)																		0				-	-	-	-	-	-	-	-	-	0	0.05
Chloride																		0				-	-	-	-	-	-	-	-	-	0	250.0
Color (PCU units)																		0				-	-	-	-	-	-	-	-	-	0	15.0
Nitrate-Nitrite																		0				-	-	-	-	-	-	-	-	-	0	10.0
Nitrogen-Ammonia																		0				-	-	-	-	-	-	-	-	-	0	2.0
Phenols																		0				-	-	-	-	-	-	-	-	-	0	0.001
Sulfate																		0				-	-	-	-	-	-	-	-	-	0	250.0
Total Organic Carbon (TOC)		ND					ND	ND	2.3	1.5		1.4						0				-	-	-	-	-	-	-	-	-	0.612	
Total Dissolved Solids (TDS)																		0				-	-	-	-	-	-	-	-	-	0	500.0
Total Hardness																		0				-	-	-	-	-	-	-	-	-	0	
Total Kjeldahl Nitrogen (TKN)																		0				-	-	-	-	-	-	-	-	-	0	
Turbidity (NTU units)																		0				-	-	-	-	-	-	-	-	-	0	5.0
Cyanide																		0				-	-	-	-	-	-	-	-	-	0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected. J = Estimated.
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-6D
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Bromobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Bromochloromethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Bromodichloromethane	ND	ND	ND	ND			ND		ND		ND																								
Bromoform	ND	ND	ND	ND			ND		ND		ND																								
Bromomethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
sec-Butylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
tert-Butylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Chlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Chloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Chloroform	0.36	ND	ND	ND			ND		ND		ND																								
Chloromethane	ND	ND	ND	8.0			ND		ND		ND				ND				ND				ND		ND						ND				ND
2-Chlorotoluene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
4-Chlorotoluene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Dibromochloromethane	ND	ND	ND	ND			ND		ND		ND																								
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND			ND		ND																										
1,2-Dibromoethane	ND	ND	ND	ND			ND		ND																										
Dibromomethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,2-Dichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,3-Dichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,4-Dichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	4.0			5.0		3.0		ND				ND				0.90				0.9 J		ND						ND				ND
1,1-Dichloroethane	0.51	0.69	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,2-Dichloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,1-Dichloroethene	ND	ND	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
cis-1,2-Dichloroethene	ND	0.40	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
trans-1,2-Dichloroethene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,2-Dichloropropane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,3-Dichloropropane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
2,2-Dichloropropane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,1-Dichloropropene	ND	ND	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
cis-1-3-Dichloropropene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
trans-1,3-Dichloropropene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Ethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Iodomethane																																			
Isopropylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
p-Isopropyltoluene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Methylene chloride	<DL	<DL	<DL	1.0			2.0		ND		ND				ND				ND				ND		ND						ND				ND
4-Methyl-2-pentanone																																			
Naphthalene	ND	ND	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
n-Propylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Styrene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Tetrachloroethene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Toluene	ND	ND	ND	ND			ND		ND		0.9				ND				ND				7.00		ND						ND				ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,1,1-Trichloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						1.00				ND
1,1,2-Trichloroethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Trichloroethene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Trichlorofluoromethane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,2,3-Trichloropropane	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	<DL	ND			ND		ND		ND				ND				ND				ND		ND						ND				ND
o-Xylene	ND	ND	ND	ND							ND				ND				ND				ND		ND						ND				ND
p-Xylene & m-Xylene			ND	ND					ND		ND				ND				ND				ND		ND						ND				ND

MW-6D
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	5.7								34.30																										
Calcium	86.5	88.5	65.7	102			66.40	70.20	99.00	75.40	78.80	72.6		119	128	69.4			73.10			80.7	91.6		94.7						88.1				90.9
Iron	**21**	**13.1**	**0.4**	**44.8**			**0.70**	**1.50**	**62.80**	**10.40**	**26.20**	**17.2**		**187**	**152**	**0.92**			**9.23**			**5.78**	**4.82**		**49.7**						**10.3**				**24.7**
Magnesium	7.8	19.1	17.7	27.5			17.70	19.40	28.60	20.80	22.10	19.9		**49.7**	**48.5**	19.4			19.30			21.0	23.6		30.0						23.7				25.6
Manganese	**0.32**	**0.32**	0.2	**0.73**			0.03	0.08	**1.23**	0.23	**0.459**	**0.36**		**3.34**	**3.11**	0.03			0.19			0.288	**0.359**		**0.976**						0.235				**0.689**
Potassium	5.4	4.8	2	9.7			2.80	8.00	11.30	4.48	8.78	5.22		21.8	17.9	3.96			4.28			4.60	5.76		10.3						7.12				6.46
Sodium	8.7	4.7	7.1	7.5			5.10	6.20	4.87	4.98	16.16	8.23		6.24	8.57	5.62			4.65			5.13	6.48		6.33						5.77				5.24
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	<DL								**0.028**																										
Arsenic	ND								**0.029**																										
Barium	0.12	0.1	ND	0.23			0.06	0.07	0.296	0.100	0.17	0.124		0.661	0.565	0.05			0.09			0.082	0.072		0.273						0.092				0.162
Beryllium									0.003																										
Cadmium		0	ND	ND			ND	ND	ND	ND	ND	ND			**0.008**	ND			ND			0.004	0.004		ND						ND				ND
Chromium (Total)	<DL	0.01	<DL	0.04			ND	0.01	**0.062**		**0.054**	0.023		**0.17**	**0.159**	ND			0.03			0.016	0.020		**0.062**						0.038				0.02
Copper	<DL								ND																										
Lead	0.011	0.010	0.002	0.022			ND	0.009	**0.043**	0.006	0.013	0.017		**0.280**	**0.140**	0.006			0.006			0.006	0.005		**0.050**						0.008				**0.035**
Mercury	ND	<DL	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND			ND			ND	ND		ND						ND				ND
Nickel	**0.25**								0.040																										
Selenium	**0.028**	<DL	<DL	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND			ND			ND	ND		ND						ND				ND
Silver	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND			ND			ND	ND		ND						ND				ND
Thallium	**0.04**								ND																										
Zinc	0.04								0.182																										
ARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	531	237	243	241			286.0	268.0	278.0	240.0	252	239		239	250	255			246			273	271		266						318				266
Biochemical Oxygen Demand	20								12.0																										
Boron	ND								ND																										
Chemical Oxygen Demand	190	24	<DL	ND			ND	31.0	124.0	126.0	84.6	47.3		101	21.6	24.1			ND			294	66.2		ND						73.9				ND
Chromium (Hexavalent)	<DL								ND																										
Chloride	6	12	12	4			7.0	15.0	ND	6.4	7.26	9.72		7.1	6.5	8.43			6.10			5.89	6.02		13.2						6.91				4.28
Color (PCU units)	**15**								10.0																										
Nitrate-Nitrite	<DL	<DL	<DL	0.68			ND	0.3	0.14	ND	0.277	0.087		0.331	ND	ND			ND			ND	ND		ND						0.098				ND
Nitrogen-Ammonia	<DL	<DL	1.3	0.3			ND	0.2	0.08	0.01	0.176	0.055		0.52	0.086	0.01			0.072			0.103	0.110		ND						ND				ND
Phenols	**0.003**	ND	ND	**0.811**			ND	ND	ND	ND	**0.003**	**0.007**		ND	**0.008**	ND			**0.012**			ND	**0.002**		**0.002**						**0.014**				**0.0118**
Sulfate	29	39.8	25.4	32			29.0	36.0	17.0	42.0	37	39		37	35	34			30			32	ND		31						40				30.1
Total Organic Carbon (TOC)	25	24	2.7	1			ND	45.0	6.5	16.0	14.8	6.8		8.7	3	4			5.4			9.7	6.0		4.4						12.0				3.9
Total Dissolved Solids (TDS)	324	351	294	366			281.0	336.0	290.0	305.0	318	331		361	282	296			266			283	318		284						336				333
Total Hardness	248	304	237	368			238.0	255.0	1070	308.0	981	360		840	654	310			262			288	326		360						318				332
Total Kjeldahl Nitrogen (TKN)	7.7								ND																										
Turbidity (NTU units)	0.5	**3150**	**195**	**910**			**83.0**	**400**	**650**	**1600**	**2000**	**1600**		**340**	**30**	**110**			**340**			**330**	**85**		**34**						**61**				**220**
Cyanide	0.004								ND																										

MW-6D
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone								ND	ND	2.3		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.12	50.0	
Acrylonitrile								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Benzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	1.0	
Bromobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Bromochloromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	50.0	
Bromomethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		0.45	-	ND	ND	-	-	-	-	ND	0.01	5.0	
2-Butanone								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	50.0	
n-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
sec-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
tert-Butylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Carbon disulfide								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	60.0	
Carbon tetrachloride		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Chlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Chloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Chloroform			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.01	7.0	
Chloromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.22	5.0	
2-Chlorotoluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
4-Chlorotoluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Dibromomethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
1,2-Dichlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	3.0	
1,3-Dichlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Dichlorodifluoromethane		ND	ND	ND	0.34	ND		ND	ND	ND		0.37		0.4	0.38	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.40	5.0	
1,1-Dichloroethane		ND	ND	ND	0.39	0.4		0.43	0.43	0.36		0.48		0.43	0.55	0.45		0.41	ND	ND		0.33	-	ND	ND	-	-	-	-	ND	0.16	5.0	
1,2-Dichloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	0.6	
1,1-Dichloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND		ND	0.39	ND		0.3		0.27	0.46	ND		ND	ND	ND		0.3	-	ND	ND	-	-	-	-	ND	0.06	5.0	
trans-1,2-Dichloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	0.35		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.01	5.0	
1,2-Dichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	1.0	
1,3-Dichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
2,2-Dichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
1,1-Dichloropropene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	0.4	*
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	0.34	-	-	-	-	ND	0.01	0.4	*
Ethylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
2-Hexanone								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	50.0	
Hexachlorobutadiene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	0.5	
Iodomethane								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Isopropylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
p-Isopropyltoluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Methylene chloride		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.08	5.0	
4-Methyl-2-pentanone								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00		
Naphthalene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	10.0	**
n-Propylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Styrene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Tetrachloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Toluene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.21	5.0	
1,2,3-Trichlorobenzene		ND	ND	ND	0.65	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.02	5.0	
1,2,4-Trichlorobenzene		ND	ND	ND	1.8	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.05	5.0	
1,1,1-Trichloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.03	5.0	
1,1,2-Trichloroethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	1.0	
Trichloroethene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
Trichlorofluoromethane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
1,2,3-Trichloropropane		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	0.04	
1,2,4-Trimethylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Vinyl acetate								ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00		
Vinyl chloride		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	2.0	
o-Xylene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	
p-Xylene & m-Xylene		ND	ND	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	0.00	5.0	

MW-6D
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																									ND							
Aluminum			16.3		2.4				0.45			1.6		0.49				0.42				0.31	-	-	ND	-	-	-	-	0.367	3.67	
Calcium			98.8	95.6	118	139		90.9	87.3			95.6		101	92.9	94		101		96		82.9	-	87.8	ND	-	-	-	-	90.7	77.80	
Iron			**31.6**	**0.35**	**3.9**	**4.1**		**0.49**	**0.56**			**1.7**		**0.403**	0.128	0.178		0.29		**0.57**		**0.34**	-	**0.39**	ND	-	-	-	-	**0.723**	17.21	0.3
Magnesium			27.8	23.6	24.5	26		23.9	23.6			25.1		26.5	24.5	24.8		26.8		26		22.9	-	24.6	ND	-	-	-	-	24.7	20.92	35.0
Manganese			**0.9**	0.03	**1.4**	**1.7**		0.02	0.04			0.05		ND	ND	ND		ND		ND		0.02	-	0.02	ND	-	-	-	-	0.0242	0.43	0.3
Potassium			6.58	2.72	3.4	3.2		2.7	2.6			2.8		3.04	2.71	2.29		2.4		2.4		2.5	-	2.3	ND	-	-	-	-	2.71	4.73	
Sodium			6.21	6.85	7.6	5.7		5.5	5.9			4.9		6	4.5	4.7		4.9		5.1		4.6	-	4.6	ND	-	-	-	-	3.81	5.21	20.0
PARAMETER (mg/l) TOXIC METALS																									ND							
Antimony			ND		ND				ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.003
Arsenic			ND		ND				ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.025
Barium			0.23	0.07	0.16	0.26		0.06	0.06			0.06		0.055	0.047			0.051				0.05	-	-	0.061	-	-	-	-	0.0513	0.12	1.0
Beryllium			ND		ND				ND			ND		ND				ND				0.0002	-	-	ND	-	-	-	-	ND	0.00	
Cadmium			ND	ND	ND	ND		ND	ND			ND		ND	ND	ND		ND				ND	-	ND	ND	-	-	-	-	ND	0.00	0.005
Chromium (Total)			0.02	ND	ND	ND		ND	ND			ND		ND	ND			ND				ND	-	-	0.001	-	-	-	-	ND	0.02	0.05
Copper			0.02		0.02				ND			ND		ND				ND				0.005	-	-	ND	-	-	-	-	0.003	0.00	0.2
Lead			0.01	ND	**0.03**	**0.03**		ND	ND			ND		ND	ND	ND		ND		0.002		ND	-	ND	0.005	-	-	-	-	0.0027	0.02	0.025
Mercury			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND			ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.0007
Nickel			ND		ND				ND			ND		ND				ND				ND	-	-	0.004	-	-	-	-	0.0021	0.02	0.1
Selenium			ND	ND	ND	ND		ND	ND	ND		ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.01
Silver			ND	ND	ND	ND		ND	ND	ND		ND		ND	ND			ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.05
Thallium			ND		ND				ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.0005
Zinc			0.08		0.03				ND			ND		0.038				ND				0.047	-	-	0.069	-	-	-	-	0.0084	0.03	2.0
ARAMETER (mg/l) LEACHATE INDICATOR																																
Alkalinity			340	330	289	268		496	175	275		250		337	298	329		382	378	310		319	-	329	-	-	-	-	-	294	252	
Biochemical Oxygen Demand			ND		6.6				ND			ND		ND				ND		ND		ND	-	-	-	-	-	-	-	1	2	
Boron			ND		ND				ND			0.03		0.028				0.03				0.06	-	-	0.06	-	-	-	-	0.0303	0	1.0
Chemical Oxygen Demand			ND	ND	92.1	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	50.5	32	
Chromium (Hexavalent)			ND		ND				ND			ND		ND				ND				ND	-	-	0.013	-	-	-	-	ND	0	0.05
Chloride			3.8	3.7	3.3	3.1		3.2	3	3.2		2.3		2.2	2.79	2.5		2.7	2.2	2.26		3	-	2.5	2.1	-	-	-	-	4.1	4.7	250.0
Color (PCU units)			5		**160**				**20**			**15**		ND				**50**				12	-	-	**17**	-	-	-	-	5	18	15.0
Nitrate-Nitrite			0.07	0.03	ND	ND		ND	ND	ND		ND		0.088	0.58			ND	0.05	0.534		ND	-	ND	ND	-	-	-	-	0.09	0	10.0
Nitrogen-Ammonia			ND	0.1	ND	0.14		ND	ND	ND		ND		ND	ND			ND	ND	ND		ND	-	ND	ND	-	-	-	-	0.026	0	2.0
Phenols			ND		**0.02**	ND		ND	**0.01**	ND		ND		ND	ND	ND		ND		ND		ND	-	ND	ND	-	-	-	-	**0.0041**	0	0.001
Sulfate			28	31	27.3	25.3		23.2	22.4	23.7		20.6		21	22.4	20.9		20.6	19.5	21		20.4	-	20.65	24.5	-	-	-	-	25.2	24.1	250
Total Organic Carbon (TOC)		ND	1.2	1.3	28.4	ND		ND	ND	ND		ND		ND	1.5	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	5	
Total Dissolved Solids (TDS)			358		377	332		359	394	435		363		365	354	331		351		420		**738**	-	359	381	-	-	-	-	349	306	500
Total Hardness			361	336	395	454		325	315	288		342		360	330	340		363		350		301	-	321	342	-	-	-	-	310	339	
Total Kjeldahl Nitrogen (TKN)			1.7		2.1				ND			ND		ND				ND		ND		ND	-	-	0.28	-	-	-	-	0.35	1	
Turbidity (NTU units)			**750**	**920**	**2390**	**3460**		**272**	**95**	**202**		**16.9**		**16**	**30**	**5**		-		**18.02**		**19.6**	-	**17.8**	**24.2**	**18.8**	**17.4**	-	-	**11.7**	498	5.0
Cyanide			ND		ND				ND			ND		ND				ND				ND	-	-	-	-	-	-	-	ND	0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

MW-7A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	0.37	2.24	0.94	2.0	3.0	ND	2.0		33.0		ND		1		ND		1		0.8				1	0.8	0.5	0.6	1		0.9	1	1	0.7	1.0		2.08
Bromobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromoform	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
sec-Butylbenzene	0.22	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
tert-Butylbenzene	ND	0.50	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Chlorobenzene	0.37	0.52	0.27	ND	ND	ND	ND		0.7		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Chloroethane	ND	ND	1.52	ND	5.0	ND	2.0		ND		ND		ND		0.5		ND		ND				1	0.6	ND	ND	ND		ND	ND	0.9	ND	ND		ND
Chloroform	ND	0.29	ND	ND	ND	ND	ND		ND		ND		ND																						
Chloromethane	ND	ND	ND	ND	ND	ND	ND		43.0		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND		ND																										
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND		ND																										
Dibromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichlorobenzene	<DL	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,4-Dichlorobenzene	0.23	0.43	0.22	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	0.5	ND	ND		ND
1,1-Dichloroethane	1.41	4.64	3.97	6.0	8.0	1.0	7.0		3.0		1.0		4		2		3		2				4	3	1	3	ND		2	3	3	2	3		3.3
1,2-Dichloroethane	<DL	0.53	0.16	6.0	1.0	ND	ND		ND		ND		ND		ND		ND		ND				ND	0.6	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	4		ND	ND	ND	ND	ND		ND
cis-1,2-Dichloroethene	0.66	1.77	1.27	2.0	3.0	ND	2.0		1.0		ND		2		0.5		1		0.6				1	1	0.5	0.9	ND		ND	2	2	0.9	2		3.18
trans-1,2-Dichloroethene	ND	ND	0.52	ND	ND	ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Ethylbenzene	0.46	0.38	0.61	ND	1.0	ND	ND		0.7		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Iodomethane																																			
Isopropylbenzene	0.16	0.39	0.23	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		0.99
p-Isopropyltoluene	ND	0.40	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Methylene chloride	ND	<DL	ND	1.0	2.0	1.0	2.0		0.5		ND		ND		ND		ND		ND				ND	ND	ND	ND	2 B		ND	ND	ND	ND	ND		ND
4-Methyl-2-pentanone																																			
Naphthalene	0.38	0.75	0.35	ND	ND	ND	ND		3.0		ND		ND		ND		ND		ND				ND	ND	ND	ND	0.6		ND	ND	ND	ND	ND		ND
n-Propylbenzene	ND	0.28	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Styrene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Toluene	ND	0.18	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				0.9	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,4-Trichlorobenzene	ND	ND	0.29	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	0.9	ND	ND		ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Trichloroethene	0.31	0.52	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,4-Trimethylbenzene	0.36	ND	ND	ND	ND	ND	1.0		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3,5-Trimethylbenzene	0.23	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		0.8		ND				1	ND	ND	ND	ND		ND	ND	1	ND	0.8		ND
o-Xylene	0.19	<DL	<DL	ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
p-Xylene & m-Xylene				ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND

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HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	11.2				30.4				0.21				51.8				14.4							14.9		3.74				0.21					
Calcium	32.7	55.4	41.4	50.7	57.6	30.8	53.1	45.0	47.3	59.7	26.5	42.1	47.5	38.5	31.3	47.6	41.8	36.4	39.5	29.5		52.2	48.0	38.5	40.7	41	46.3		42.6	43.1	60.7		41.4		53.7
Iron	50.8	79	9.9	19.2	62.6	6.19	33.6	36.7	24.0	68.7	68.3	49.3	104	21.6	15.3	52.5	40.6	19.5	27.9	16.1		15.9	22.0	32.6	19.9	7.98	20.6		4.9	8.38	20.2		9.86		10.5
Magnesium	4.5	13.9	12.3	10.4	18.1	6.3	12.5	12.3	9.99	17.6	10.5	12.6	20.6	8.5	7.13	13.9	11.1	7.66	9.32	6.55		10.8	10.2	10.8	8.46	9.16	9.54		8.8	8.55	12.3		8.26		11.3
Manganese	9.75	14.2	9.53	12.1	16.4	13.4	15.2	12.6	12.5	15.1	7.8	11.4	12.5	10.4	7.73	12.1	24.4	8.64	8.99	7.20		15.1	11.6	9.28	9.99	7.53	10.5		9.62	9.56	14		9.58		14
Potassium	20.8	23.8	18.9	25.8	36.3	14.3	21.5	21.6	27.0	29.6	17.8	26.8	33.4	17.4	13.2	27.7	7	17.7	16.3	20.5		19.3	18.8	29.8	17.3	25.4	16.1		17.8	23	19.4		16		22.6
Sodium	7.2	10.2	7.2	9.1	11.9	7.2	10.6	9.2	8.97	10.2	3.5	7.92	7.92	7.73	6.01	7.5	ND	7.59	6.07	5.16		8.56	6.86	8.40	6.32	9.11	6.22		6.76	7.1	9.05		6.49		8.85
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	0.008				0.060				0.028				ND				ND							ND		ND				ND					
Arsenic	0.010				0.060				0.045				0.094				0.061							0.046		0.01				0.02					
Barium	0.97				1.53				0.79				1.47				0.81							0.860		0.78				0.72					
Beryllium					ND				ND				0				ND							ND		ND				ND					
Cadmium		<DL	<DL		0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND		ND	0.010	ND	ND	ND	ND		ND	ND	ND		ND		ND
Chromium (Total)	<DL				0.08				0.01				0.15				0.07							0.051		0.02				0.02					
Copper	<DL				0.03				ND				0.06				0.02							ND		ND				ND					
Lead	0.221	<DL	0.010	ND	0.014	ND	0.007	0.021	ND	0.012	0.009	0.015	0.032	0.008	0.002	0.004	0.010	ND	ND	0.001		ND	0.004	0.014	0.002	0	0		0	0	ND		ND		0.001
Mercury	ND				0.080				ND				ND				ND							ND		ND				ND					
Nickel	ND				0.08				0.02				0.18				0.01							0.070		0.05				0.05					
Selenium	0.05	0.05	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND	ND		ND		ND
Silver	0.29	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND	ND		ND		ND
Thallium	<DL				0.12				ND				ND				ND							ND		ND				ND					
Zinc	0.09				0.12				0.01				0.24				0.08							0.100		0.03				0.02					
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	207	562	195	276	296	187	287.0	299.0	221	206.0	119.0	197.0		192	154	210	194	180	172	168		251	199		191	132	233		199	226	265	164	196		245
Biochemical Oxygen Demand	25				4.0				12								11									14				ND					
Boron	0.05				0.17				0.01				ND				ND							0.136		0.1				0.1					
Chemical Oxygen Demand	39	26	18	17	ND	5.0	56.0	ND	32.2	59.7	54.8	49.0	31.9	33.8	10.9	12.3	74.5	16.4	20.6	43.4		63.2	72.7		ND	53.1	18.4		32.9	22.5	36.6	ND	32.5		16
Chromium (Hexavalent)	<DL				16				ND				ND				ND									ND				ND					
Chloride	9.4	12	11.7	13	16	8.0	14.0	16.0	11.5	7.1	4.73	8.41		6.03	4.82	5.02	7.97	8.4	5.81	ND		7.4	6.22		3.73	4.8	4.37		5.46	6.97	6.88		3.85		6.19
Color (PCU units)	40				ND				125								10									30				200					
Nitrate-Nitrite	<DL	<DL	<DL	ND	3.5	ND	ND	0.1	1.74	0.7	ND	1.35	ND	0.31	ND	ND	ND	0.09	ND	0.275		ND	ND		ND	1.41	ND		ND	ND	ND		ND		ND
Nitrogen-Ammonia	3.3	1.1	0.6	0.2	3.5	1.1	2.7	9.9	3.23	0.9	1.52	2.0	0.57	2.2	1.83	2.41	2.96	2.23	1.84	ND		2.02	1.69		1.05	1.36	2.15		1.45	2.44	1.91	1.83	1.92		2.26
Phenols	<DL	0.049	ND	ND	0.030	ND	ND	ND	0.015	ND	0.006	0.016	0.012	ND	0.017	ND	0.004	ND	ND	0.015		0.006	0.004		0.006	ND	ND		0.02	0.01	0.01		0.02		0.0147
Sulfate	23	<DL	8.6	15	12	38.0	10.0	ND	19.0	24.0	13.0	27.0		18	17	16	15	16	15	24		17	15		14	16	12		30	14	11		20		8.74
Total Organic Carbon (TOC)	12	16	7.8	11	12	3.0	9.0	28.0	25.4	12.3	5.5	9.2	36	10.8	5.7	6.8	7	6.2	8.6	7.8		9.8	8.8		4.8	6.1	5.3		4.7	7	6.9	4.4	ND		6.5
Total Dissolved Solids (TDS)	276	266	237	304	369	291.0	305.0	448.0	279.0	203.0	142.0	272.0		234	181	192	274	214	196	216		280	212		205	215	227		227	257	327		228		303
Total Hardness	100	195	154	169	219	103.0	183.0	163.0	226.0	157.0	231.0	177.0		188	169	169	274	122	137	101		175	162		136	140	155		146	143	202		137		181
Total Kjeldahl Nitrogen (TKN)	4.6				4.6				3.67				4.12				11.3									ND				15.4					
Turbidity (NTU units)	20	400	803	810	1850	9.0	123.0	302.0	145.0	250.0	725.0	130.0		220	56	56	100	30	110	195		120	140		58	11	60		30	0.95	44		27		16
Cyanide	0.13				ND				ND				ND				ND									ND				ND					

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ISCHUA LANDFILL
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	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	2.3	2.8	2.8		1.9	3.2	ND	ND	ND	ND	ND	ND	ND		1.4	-	ND	ND	ND	ND	ND	-	ND	0.65	50.0	
Acrylonitrile							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Benzene	ND	1.0	1.3	0.7	0.84	ND	1.0	1.1	1.1	0.75		0.8	0.3	0.35	0.8	0.35	ND	0.83	ND	ND		0.74	-	ND	1.1	0.37	ND	ND	-	ND	1.35	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.01	5.0	
Carbon disulfide							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Chlorobenzene	ND	ND	ND	ND	0.36	ND	ND	ND	0.33	0.26		0.29	ND	ND	0.37	ND	ND	ND	ND	ND		0.31	-	ND	0.56	ND	ND	ND	-	ND	0.08	5.0	
Chloroethane	ND	ND	ND	ND	0.38	ND	0.44	0.58	0.56	0.31		0.32	ND	ND	0.25	ND	ND	ND	ND	ND		0.26	-	ND	ND	ND	ND	ND	-	ND	0.28	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.01	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.83	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	ND	ND	ND	ND	0.55	ND	ND	ND	0.34	0.38		0.4	0.28	0.34	0.57	0.24	ND	ND	ND	ND		0.48	-	ND	0.71	0.44	ND	ND	-	ND	0.11	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	0.38	ND	0.37	0.78	2.1	0.9		0.47	ND	ND	0.31	0.25	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	9.7	0.30	5.0	
1,1-Dichloroethane	0.82	2.1	2.3	1.5	1.4	0.52	1.8	2.1	1.8	1.4		1.4	0.8	0.65	1.3	0.75	ND	1.4	0.73	ND		0.96	-	ND	1.5	0.41	ND	ND	-	ND	1.92	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.16	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.08	5.0	
cis-1,2-Dichloroethene	ND	2	2.4	1.3	1.6	0.4	2.1	2.5	2.5	1.6		1.9	0.84	0.79	1.8	0.86	ND	1.9	ND	ND		1.8	-	ND	2.6	0.79	ND	ND	-	ND	1.11	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	0.34	ND		ND	ND	ND	0.23	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.03	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	0.4	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	0.4	*
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.06	5.0	
2-Hexanone							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.03	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.01	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.13	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00		
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.10	10.0	**
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.01	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.02	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.02	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	1.0	
Trichloroethene	ND	ND	0.6	ND	0.41	ND	0.35	0.43	0.49	0.41		0.37	ND	ND	0.4	ND	ND	ND	ND	ND		0.43	-	ND	0.57	0.28	ND	ND	-	ND	0.11	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	0.04	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.04	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00		
Vinyl chloride	ND	0.5	1.5	0.7	0.74	ND	0.74	1.4	1.5	0.79		0.81	ND	0.29	0.49	0.28	ND	0.75	ND	ND		0.7	-	ND	0.86	ND	ND	ND	-	ND	0.30	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	0.00	5.0	

MW-7A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum			0.14		1.1		ND		ND			ND		0.251				ND				0.04	-	-	ND	ND	-	ND	-	0.0299	5.14	
Calcium		48.6	43.7	34.8	34.8	26.3	45.3	52.4	55.9	36.3		46		33.5	44	32.5		53.5	94.2	60		40.8	-	54.6	53.4	25.3	70.9	42.3	-	58.2	43.75	
Iron		27	16.4	16.6	17.2	6.8	1.1	20.8	25.7	21.8		3.8		10	16.8	8.98		7.8	0.12	28		8.15	-	10.1	20.2	11.8	4.68	18.4	-	11.9	23.08	0.3
Magnesium		10.2	8.23	6.52	6.8	5.1	9.1	10.5	11.3	7.5		9.4		6.67	8.78	6.5		10.9	15.3	12		8.8	-	11.7	11.1	5.2	12.6	7.48	-	11.7	9.77	35.0
Manganese		11.7	9.91	8.31	8.9	6	7.2	12.8	14.3	9.6		13.5		8.55	11.3	7.84		13.7	2	16		15.7	-	16.1	16.3	6.89	9.5	10.7	-	16.4	11.00	0.3
Potassium		18.3	20.3	15.7	21.8	14.1	23.9	19.7	23.8	18		20.6		19.1	22	15.7		18.4	1.8	18		19	-	19.8	16.6	11.6	13.3	17	-	21.6	19.16	
Sodium		6.68	8.28	5.35	5.9	3.6	6.5	5.3	5.9	3.9		5.1		4.4	4.6	3.8		5	6.4	5.3		4.3	-	4.7	4.8	2.6	5.9	ND	-	4.71	6.21	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony			ND		ND		ND		ND			ND		ND				ND				0	-	-	ND	ND	-	ND	-	ND	0.00	0.003
Arsenic			ND		0.04		ND		0.043			ND		0.016				ND				0.007	-	-	0.026	0.026	-	0.026	-	0.01	0.02	0.025
Barium			0.61		0.5		0.59		0.76			0.65		0.45				0.65				0.661	-	-	0.681	0.36	-	0.499	-	0.76	0.60	1.0
Beryllium			ND		ND		ND		ND			ND		ND				ND				2E-04	-	-	ND	ND	-	ND	-	ND	0.00	
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	8E-05	0.00	0.005
Chromium (Total)			ND		0.01		ND		ND			ND		ND				ND				0.003	-	-	0.003	0.001	-	0.011	-	0.0059	0.02	0.05
Copper			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	0.0025	0.00	0.2
Lead		0.005	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND		ND	ND	0.001		0.002	-	ND	0.002	ND	ND	0.003	-	0.0034	0.01	0.025
Mercury			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	ND	0.00	0.0007
Nickel			ND		ND		ND		ND			ND		ND				ND				0.012	-	-	0.011	0.005	-	ND	-	0.0125	0.02	0.1
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND				0.007	-	-	0.006	0.008	-	ND	-	ND	0.00	0.01
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND				ND	-	-	0.003	0.002	-	ND	-	ND	0.01	0.05
Thallium			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	0.014	-	ND	0.01	0.0005
Zinc			ND		ND		ND		0.039			0.02		0.032				0.038				0.063	-	-	0.036	0.015	-	ND	-	0.0097	0.04	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity		238	225	180	144	101	203	218	263	96.7		121		145	188	128		252	328	240		209	-	250	265	120	160	193	-	287	203.2	
Biochemical Oxygen Demand			8		ND		ND		2.8			4.4		3.2				5.7		12		5	-	-	10.4	2.1	4.9	6	-	7.3	5.7	
Boron			ND		0.07		0.08		0.073			0.05		0.057				0.057				0.08	-	-	0.06	0.07	-	ND	-	0.061	0.0	1.0
Chemical Oxygen Demand		18.1	13	13	26.2	ND	18.8	17.9	20.1	16.6		19.2		ND	19.9	13.9		ND	10.5	24		14.8	-	18.1	20.8	10.3	19.1	-	-	50.5	23.5	
Chromium (Hexavalent)			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	-	-	ND	0.7	0.05
Chloride		4.17	4.6	3.7	2.7	1.4	5	3.5	3.8	3.3		2.7		2	2.39	1.83		4.3	9.1	4.26		2.9	-	3.1	3	ND	2.8	2.28	-	5	5.6	250.0
Color (PCU units)			20		50		100		250			25		60				200				130	-	-	280	120	-	10	-	15	72.4	15.0
Nitrate-Nitrite		ND	0.03	0.03	ND	0.47	ND	ND	ND	ND		ND		ND	ND			ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	0.044	0.2	10.0
Nitrogen-Ammonia		2.21	2.8	2.1	1.1	0.91	1.7	1.2	1.3	1.6		1.5		1.54	1.72			1.3	ND	2.38		1.49	-	1.3	2.11	1.72	1.86	2.22	-	1.8	1.8	2.0
Phenols		0.0116	0.002	ND	ND	ND	ND	ND	0.007	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	0.005	0.011	ND	ND	0.006	-	0.0068	0.0	0.001
Sulfate		8.71	12	11	12	12.8	11	8.8	6.2	10		8.5		12	9.37	11.5		8	6.8	ND		6.9	-	6.6	5.9	7.7	7.7	6.37	-	5.9	12.3	250
Total Organic Carbon (TOC)	3.6	4.2	6.1	4	7.1	1.5	4.6	5	5.4	5.5		4.4	11.9	3.7	4.2	1.7		4.8	ND	7		5.4	-	6.3	7.2	4.6	5.4	4.8	-	7	7.4	
Total Dissolved Solids (TDS)		283	255	208	213	107	248	336	231	351		244		184	221	178		265	309	350		242	-	291	293	141	259	207	-	272	242.0	500
Total Hardness		163	143	114	115	86.7	150	174	186	122		154		110	150	110		179	298	200		138	-	185	179	84.6	235	140	-	220	156.5	
Total Kjeldahl Nitrogen (TKN)			3.6		2.9		2		1.8			1.7		1.76				2.2		2.23		2.1	-	-	2.51	1.81	-	2.27	-	2.4	2.9	
Turbidity (NTU units)		84	64	81	63.4	118	44.6	40.3	87	33.2		5.9		23	4	0	308	3	6.9	11		9.6	-	12.5	13.8	15.2	21.2	15.4	-	3	143.8	5.0
Cyanide			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	-	-	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

MW-7C
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	ND			ND	ND																														
Bromobenzene	ND			ND	ND																														
Bromochloromethane	ND			ND	ND																														
Bromodichloromethane	0.40			ND	ND																														
Bromoform	ND			ND	ND																														
Bromomethane	ND			ND	ND																														
2-Butanone																																			
n-Butylbenzene	ND			ND	ND																														
sec-Butylbenzene	ND			ND	ND																														
tert-Butylbenzene	ND			ND	ND																														
Carbon disulfide																																			
Carbon tetrachloride	ND			ND	ND																														
Chlorobenzene	ND			ND	ND																														
Chloroethane	ND			ND	ND																														
Chloroform	0.91			ND	ND																														
Chloromethane	ND			ND	ND																														
2-Chlorotoluene	ND			ND	ND																														
4-Chlorotoluene	ND			ND	ND																														
Dibromochloromethane	ND			ND	ND																														
1,2-Dibromo-3-chloropropane	ND			ND	ND																														
1,2-Dibromoethane	ND			ND	ND																														
Dibromomethane	ND			ND	ND																														
1,2-Dichlorobenzene	ND			ND	ND																														
1,3-Dichlorobenzene	ND			ND	ND																														
1,4-Dichlorobenzene	ND			ND	ND																														
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND			ND	ND																														
1,1-Dichloroethane	1.11			2.0	1.0																														
1,2-Dichloroethane	ND			ND	ND																														
1,1-Dichloroethene	ND			ND	ND																														
cis-1,2-Dichloroethene	ND			ND	ND																														
trans-1,2-Dichloroethene	ND			ND	ND																														
1,2-Dichloropropane	ND			ND	ND																														
1,3-Dichloropropane	ND			ND	ND																														
2,2-Dichloropropane	ND			ND	ND																														
1,1-Dichloropropene	ND			ND	ND																														
cis-1-3-Dichloropropene	ND			ND	ND																														
trans-1,3-Dichloropropene	ND			ND	ND																														
Ethylbenzene	ND			ND	ND																														
2-Hexanone																																			
Hexachlorobutadiene	ND			ND	ND																														
Iodomethane																																			
Isopropylbenzene	ND			ND	ND																														
p-Isopropyltoluene	ND			ND	ND																														
Methylene chloride	0.75			2.0	ND																														
4-Methyl-2-pentanone																																			
Naphthalene	ND			ND	ND																														
n-Propylbenzene	ND			ND	ND																														
Styrene	ND			ND	ND																														
1,1,1,2-Tetrachloroethane	ND			ND	ND																														
1,1,2,2-Tetrachloroethane	ND			ND	ND																														
Tetrachloroethene	ND			ND	ND																														
Toluene	ND			ND	ND																														
1,2,3-Trichlorobenzene	ND			ND	ND																														
1,2,4-Trichlorobenzene	ND			ND	ND																														
1,1,1-Trichloroethane	ND			ND	ND																														
1,1,2-Trichloroethane	ND			ND	ND																														
Trichloroethene	ND			ND	ND																														
Trichlorofluoromethane	ND			ND	ND																														
1,2,3-Trichloropropane	ND			ND	ND																														
1,2,4-Trimethylbenzene	ND			ND	ND																														
1,3,5-Trimethylbenzene				ND	ND																														
Vinyl acetate																																			
Vinyl chloride	ND			ND	ND																														
o-Xylene	ND				ND																														
p-Xylene & m-Xylene				ND	ND																														

MW-7C
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	16.8				1.9																														
Calcium	139	117	102	109	93.8	88.2																													
Iron	**34.6**	**0.66**	**0.32**	**0.47**	**2.8**	**0.68**																													
Magnesium	23.7	16.4	17.4	17	15.6	14.2																													
Manganese	**0.47**	0.18	**0.35**	**0.37**	0.27	0.29																													
Potassium	5.3	1.7	3.4	1.5	2.2	1.6																													
Sodium	14.8	4	4.8	5.2	4.7	4.5																													
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND				ND																														
Arsenic	ND				ND																														
Barium	0.21				0.1																														
Beryllium					ND																														
Cadmium		ND	<DL	ND	ND	ND																													
Chromium (Total)	<DL				ND																														
Copper	0.03				ND																														
Lead	**0.06**	ND	0.01	ND	ND	0.01																													
Mercury	**0.01**	<DL	ND	ND	ND																														
Nickel	**0.39**				ND																														
Selenium	**0.05**	ND	0.01	ND	ND	ND																													
Silver	ND				ND																														
Thallium	ND				ND																														
Zinc	0.08				0.1																														
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	299	300	284	295	315	356																													
Biochemical Oxygen Demand	<DL				2.0																														
Boron	ND				ND																														
Chemical Oxygen Demand	15	20	<DL	ND	ND	ND																													
Chromium (Hexavalent)	<DL				ND																														
Chloride	42.3	40	39.1	30	21.0	30																													
Color (PCU units)	5				ND																														
Nitrate-Nitrite	<DL	<DL	<DL	ND	ND	ND																													
Nitrogen-Ammonia	<DL	<DL	<DL	0.2	0.2	0.1																													
Phenols	**0.002**	ND	ND	ND	**0.01**	ND																													
Sulfate	14	22	15.4	7	ND	21																													
Total Organic Carbon (TOC)	4.1	11	4	1	2.0	2																													
Total Dissolved Solids (TDS)	456	418	394	388	413	381																													
Total Hardness	444	357	326	342	298	279																													
Total Kjeldahl Nitrogen (TKN)	34				0.9																														
Turbidity (NTU units)	**65**	**126**	**83**	**200**	**111**	**33**																													
Cyanide	<DL				ND																														

MW-7C
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	ND	5.3	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	0.43	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	1.0	
Bromobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	50.0	
Bromoform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroethane							ND	0.27	ND	0.36	ND	0.41	ND	ND	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0	
Chloroform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	7.0	
Chloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane							ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
1,1-Dichloroethane							1.5	1.4	1.4	1.5	1.2	1.2	1.2	1.1	1.2	1.1	1.1	0.72	1.5	ND	ND	0.66	ND	ND	0.79	0.89	ND	ND	ND	ND	0.84	5.0	
1,2-Dichloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.6	
1,1-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	5.0	
trans-1,2-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
p-Isopropyltoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Methylene chloride							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	10.0	**
n-Propylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Styrene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Toluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1,1-Trichloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2-Trichloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
Trichlorofluoromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	2.0	
o-Xylene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
p-Xylene & m-Xylene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	

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HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
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	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum							ND		ND		ND	ND		ND			ND	ND			ND	ND	0	-	ND	ND	-	ND	ND	ND	0.98	
Calcium							103.0	91.0	97.3	96.5	98.2	94.7	97.9	97.3	96.3	97	100	90.9	52.3	98	96	84.2	94.6	91.6	92.4	102	95.8	102	105	96.6	97.32	
Iron							ND	0.063	ND	ND	0.092	ND	0.081	0.177	ND	ND	0.184	ND	2.3	ND	ND	0.03	ND	0.17	0.08	ND	ND	ND	ND	0.0147	1.42	0.3
Magnesium							16.4	14.9	15.7	15.5	15.4	14.9	15.3	15.5	15.3	15.3	15.4	14.8	10.9	16	16	14	15.9	15.5	16.4	16.7	15.8	15	16.9	15.4	15.77	35.0
Manganese							0.2	1.5	1.6	1.5	2.2	1.7	0.9	2.65	1.01	1.21	0.633	1.2	9.3	0.89	0.44	1.1	2.04	2.83	1.35	0.945	0.571	0.928	0.464	0.32	1.31	0.3
Potassium							1.6	1.5	1.5	1.6	1.6	1.4	1.5	1.57	1.39	1.48	1.83	1.5	24.3	1.5	1.5	1.4	ND	ND	1.4	1.6	ND	ND	ND	2.04	2.26	
Sodium							6.7	6.3	6.9	7.7	6.4	6.1	6.3	6.5	6.1	6	6.8	6	5.9	6.6	ND	5.8	6.4	6.5	6.3	6.4	6.9	6.62	7.44	8.48	6.30	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.025
Barium							0.12		0.1		0.16	0.14		0.186			0.101	0.11			ND	0.104	-	-	0.132	0.128	-	ND	ND	0.0904	0.09	1.0
Beryllium							ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)							ND		ND		ND	ND		0.006			0.005	ND			ND	0.0001	-	-	0.001	ND	-	ND	ND	ND	0.00	0.05
Copper							ND		ND		ND	ND		ND			ND	ND			ND	0.003	-	-	ND	ND	-	ND	ND	0.0026	0.00	0.2
Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009	ND	ND	0.002	ND	ND	ND	ND	0.005	0.003	ND	0.0039	ND	0.0021	0.00	0.025
Mercury							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	0.0016	0.02	0.1
Selenium							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.003	0.003	-	ND	ND	ND	0.00	0.0
Silver							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.05
Thallium							ND		ND		ND	ND		ND			ND	ND			ND	ND	0	-	ND	ND	-	ND	ND	ND	0.00	0.0005
Zinc							ND		0.015		0.028	0.011		0.012			0.034	ND			0.012	0.011	-	-	0.011	ND	-	0.0276	ND	0.0237	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity							282.0	484	264	311	401	279	246	294	293	350	307	323	252	270	300	299	320	302	320	321	320	307	310	314	310.6	
Biochemical Oxygen Demand							ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	ND	ND	ND	ND	ND	1	0.2	
Boron							ND		ND		ND	ND		ND			0.02	0.021			ND	ND	-	-	0.03	0.05	-	ND	ND	0.0166	0.0	1.0
Chemical Oxygen Demand							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.7	ND	ND	11.4	6.3	ND	11.1	12.8	9.1	-	ND	15.1	4.0	
Chromium (Hexavalent)							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0033	0.0	0.05
Chloride							14.7	14.3	13.2	12.2	12.3	10.5	11.9	12	12	10.2	9.72	10.3	4	9.18	7.69	7.9	7.6	6.8	6.3	7.7	6.1	5.82	7.1	7.5	14.3	250
Color (PCU units)							13.0		15.0		50	5		ND			0	17.5			ND	8	-	-	12	8	-	5	5	5	7.8	15.0
Nitrate-Nitrite							ND	ND	ND	0.092	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.023	0.0	10.0
Nitrogen-Ammonia							ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	1.5	ND	ND	ND	ND	ND	ND	0.059	ND	ND	ND	0.028	0.1	2.0
Phenols							ND	ND	ND	0.01	ND	0.0098	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.252	ND	ND	0.0031	0.0094	0.001
Sulfate							8.0	7.3	6	8	8.2	5.5	6.7	6.8	6.82	7.41	6.1	7.9	7.9	6.2	ND	6.6	6.4	7.2	6.3	7.8	7.4	6.86	8.3	8.7	8.1	250
Total Organic Carbon (TOC)							1.1	ND	ND	2	1.1	1.3	1.6	ND	2.3	ND	1.4	1.3	1.8	ND	ND	1.4	1.5	1.3	1.4	1.4	577	1.35	2.7	ND	20.9	
Total Dissolved Solids (TDS)							341.0	344	325	326	299	327	326	319	321	319	259	287	254	340	370	340	329	290	330	308	325	334	338	349	338.3	500
Total Hardness							ND	288	308	305	308	298	307	310	300	310	310	288	176	310	300	268	302	293	298	324	318	340	310	280	296.6	
Total Kjeldahl Nitrogen (TKN)							ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	0.24	0.28	-	0.13	ND	0.21	1.8	
Turbidity (NTU units)							62.2	4.2	5	11.3	15.5	2.4	4.9	1	0	1	12	1	8.2	3.4	15.3	2.2	1.8	10	3.9	17.2	8.1	3.8	5.8	24.7	28.1	5.0
Cyanide							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

MW-8B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	0.08			3.0	2.0				3.0		3.0		4		4		3		4				4	3	3	3	4	1	3	5	4	3	3	1.2	3.1
Bromobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND			ND	ND				ND		ND		ND																						
Bromoform	ND			ND	ND				ND		ND		ND																						
Bromomethane	ND			ND	ND				ND		ND		ND		ND		5		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone																																			
n-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21
tert-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide																																			
Carbon tetrachloride	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	<DL			ND	ND				1.0		1.0		1		2		1		ND				2	1	1	1	1	0.6	1	3	2	1	2	0.6	2.3
Chloroethane	ND			ND	ND				ND		ND		1		1		0.6		0.9				2	1	1	1	1	0.6	ND	2	2	ND	ND	ND	ND
Chloroform	ND			ND	ND				ND		ND		ND																						
Chloromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND			ND	ND				ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND			ND	ND				ND																										
1,2-Dibromoethane	ND			ND	ND				ND																										
Dibromomethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		2				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.12			ND	ND				2.0		1.0		1		2		1		2				2	1	2	2	1	0.6	1	2	2	1	2	ND	1.92
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND			3.0	3.0				1.0		0.6		ND		ND		0.8		0.6				ND	0.7	ND	0.5	ND	ND	ND	ND	ND	ND	0.7	ND	ND
1,1-Dichloroethane	2.12			8.0	7.0				3.0		ND		4		3		3		5				2	4	2	3	3	4	3	3	2	3	2	3.72	2.18
1,2-Dichloroethane	<DL			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND			ND	ND				ND		3.0		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND			8.0	6.0				4.0		25.0		9		4		5		ND				4	7	4	8	7	9	6	8	5	5	5	4.16	3.52
trans-1,2-Dichloroethene	1.68			ND	ND				0.6		0.7		0.8		0.9		0.5		ND				0.6	0.6	0.6	0.8	0.8	0.6	0.7	2	1	0.7	0.9	0.84	ND
1,2-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1-3-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND			4.0	2.0				8.0		2.0		6		11		6		8				10	2	4	1	ND	ND	ND	3	5	0.6	0.8	ND	1.35
2-Hexanone																																			
Hexachlorobutadiene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane																																			
Isopropylbenzene	ND			ND	ND				0.9		ND		1		1		0.9		ND				1	0.5	0.8	0.8	0.7	ND	ND	1	0.9	ND	0.7	ND	1.16
p-Isopropyltoluene	ND			ND	ND				ND		ND		ND		0.6		ND		ND				0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND			4.0	ND				ND		ND		0.5*		ND		ND		3				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone																																			
Naphthalene	ND			ND	ND				2.0		1.0		ND		1		ND		0.6				0.9 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND			ND	ND				1.0		ND		1		1		0.8		1				1	ND	0.8	ND	0.7	ND	ND	0.8	0.9	ND	ND	ND	1.13
Styrene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND			ND	ND				ND		3.0		ND		ND		ND		1				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND			ND	ND				0.6		0.8		ND		0.6		ND		ND				5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.36			ND	ND				0.6		8.0		1		0.8		0.8		0.9				0.6	0.9	0.9	1	2	0.9	ND	ND	1	ND	1	0.94	1.15
Trichlorofluoromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.12			1.0	ND				0.5		ND		ND		1		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND			ND	ND				ND		19.0		ND		3		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND
Vinyl acetate																																			
Vinyl chloride	ND			8.0	10				4.0		19.0		11		7		ND		6				4	8	6	8	10	8	7	12	8	5	6	ND	ND
o-Xylene	ND				ND				ND		ND		ND		0.8		ND		ND				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Xylene & m-Xylene				ND	ND				1.5		1.7		ND		2		5		ND				0.7	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND

MW-8B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	1.5				0.5				1.03				1.59				0.47				3.7			0.095		4.4		0.18		0.09		0.23		0.39	
Calcium	75.4	81.2	67.7	86.8	65.7	55.7	69.6	67.0	70.8	77	74.8	69.9	69.4	73.2	75.5	74.8	69.5	67.2	64.9	64.2	80.3	76.4	88.5	66.8	69.9	64.6	72.4	86.8	67.2	70.4	77.8	71.5	71.3	78.8	72.1
Iron	16.1	14.1	8.8	7.3	10.0	7.56	14.6	7.9	16	20.5	17.9	13.1	23.3	13.4	18.9	18.8	13.8	11.4	10.0	9.99	64.9	15.1	20.3	8.11	11.1	14.4	11.9	57.2	5.96	31.2	15.8	11.7	10.2	46.4	9.15
Magnesium	5.8	11.4	12.2	13.2	9.9	8.5	10.8	11.0	11.5	13.3	11.9	11.1	11.1	11.4	12.9	12.2	10.6	10.3	9.8	10.2	12.5	11.9	14.0	10.3	11.2	10.8	11.1	11.6	10.4	10.9	12.3	11.2	11	11.5	11.2
Manganese	10.9	10.8	8.39	9.17	6.13	7.97	10	9.6	10.6	10.5	10.7	9.94	10.3	9.8	11.1	11.1	9.85	8.94	8.1	8.53	8.53	11	12.3	7.95	9.37	9	9.67	8.06	7.75	10.6	10.9	9.51	9.66	7.24	9.8
Potassium	3.4	2.4	3.3	2.8	2.0	2.5	3.7	3.1	4.9	4.5	3.3	2.56	3.62	3.64	4.1	3.76	3.31	3.56	2.7	2.91	2.85	4.18	3.77	2.88	3.39	4.68	3.07	2.7	2.81	4.33	3.87	4.35	3.11	2.28	2.86
Sodium	8.2	6.8	6.6	13.5	8.8	8.3	9.2	10.5	11.1	10.2	7.4	7.79	9.72	9.09	8.86	9.06	8.14	8.18	6.3	9.23	9.23	8.28	7.85	9.69	7.27	9.5	6.86	10.5	7.08	7.88	7.38	8.79	6.58	8.99	6.83
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	0.01				ND				0.04				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Arsenic	0.020				0.024				0.028				0.046				0.023				0.17			0.018		0.02		0.04		0.07		0.03		0.16	
Barium	0.04				0.35				0.23				0.27				0.21				0.712			0.211		0.22		0.77		0.25		0.2		0.47	
Beryllium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Cadmium		ND	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	0.01	ND	ND	ND	0.005	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)	<DL				ND				0				0.01				ND				0.046			ND		ND		ND		ND		ND		ND	
Copper	<DL				ND				ND				0.01				0.01				0.025			ND		ND		ND		ND		ND		ND	
Lead	0.583	ND	0.009	ND	ND	ND	0.060	ND	0.005	0.026	0.008	0.004	0.033	0.005	0.013	0.004	0.004	ND	ND	ND	0.036	ND	0.012	0.010	0.004	0.02	0.01	0.03	0.003	0.01	0.01	0.01	0.002	0.02	0.002
Mercury	ND				ND				ND				ND				ND				0.0003			ND		ND		ND		ND		ND		ND	
Nickel	ND				ND				0.02				0.05				0.06				0.066			0.033		0.05		0.03		0.05		0.04		0.04	
Selenium	0.03	<DL	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.03				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Thallium	0.01				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Zinc	0.03				0.01				0.02				0.07				0.03				0.129			ND		0.06		0.06		0.03		ND		0.03	
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	275	281	258	228	244	251	296	226.0	243	262	256	264	246	261	294	271	267	275	258	258	260	258	282	271	278	244	293	261	281	287	283	261	276	350	250
Biochemical Oxygen Demand	28				ND				13				3				ND				17			4		ND		16		ND		5		18	
Boron	<DL				0.04				ND				ND				ND				ND			0.072		0.07		0.08		0.11		0.08		ND	
Chemical Oxygen Demand	30	33	20	ND	11.0	28.0	66.0	ND	51.9	51.3	79.6	37.1	28.5	28.1	26.4	61	27	13.1	16.5	69.4	57.3	37.6	36.3	16.0	18.2	16.2	28.9	205	23.1	31.1	37.3	19.2	24.4	33.3	ND
Chromium (Hexavalent)	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND			
Chloride	18.5	18	17.6	29	22.0	15.0	22.0	80.0	18.2	17.7	14.5	18	19	15.7	15.8	15.2	17.1	12	11.4	18.3	20.7	13.6	12.5	17.8	9.18	13.8	8.56	20	12	12.9	9.57	14.2	9.45		9.27
Color (PCU units)	45				ND				60.0				30				35				25			200		30		500		250		45		750	
Nitrate-Nitrite	2.1	<DL	<DL	ND	ND	0.04	ND	ND	1.97	1.08	ND	ND	0.4	0.37	ND	ND	ND	ND	ND	ND	ND	0.107	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND		ND
Nitrogen-Ammonia	2.2	<DL	0.7	ND	1.3	0.6	2.3	2.7	2.58	2.3	2.64	2.31	2.17	1.8	3.13	3.31	2.91	1.52	2.04	1.75	1.5	2.74	3.26	1.42	2.49	2.19	2.72	0.9	1.46	3.08	2.77	1.85	2.09	1.05	1.61
Phenols	<DL	ND	<DL	ND	0.020	ND	ND	ND	0.035	0.029	0.046	0.042	0.038	ND	0.050	0.037	0.043	0.025	0.019	0.071	0.067	0.031	0.046	0.023	0.030	0.02	0.02	0.01	0.03	0.04	0.03	0.02	0.03	0.01	0.02
Sulfate	16	4.9	9	16	9.0	17.0	6.0	ND	30.0	21.0	7.8	ND	13	18	6.6	6.6	5	9.1	9.1	9.3	12	9.4	15	8.2	7.2	7.4	8.1	14	13	7.8	9.2	8.2	13		9.84
Total Organic Carbon (TOC)	13	14	9.3	6	4.0	8.0	9.0	5.6	17.6	13.9	6.2	8	12	8	8.7	7.8	7	7.3	10.9	5.1	5.9	10.3	9.8	6.2	9.5	1.7	6.9	21	5.7	9.4	8.7	8.2	5.5	2.9	5.8
Total Dissolved Solids (TDS)	330	330	303	329	329	269	323	283	282	335	316	359	120	311	334	311	320	307	278	312	301	290	325	287	288	276	277	316	300	289	317	278	306	304	294
Total Hardness	212	249	219	271	205	174	219	213	262	270	266	243	267	301	356	271	327	210	202	202	252	240	279	209	221	206	226	265	211	187	245	225	223	244	226
Total Kjeldahl Nitrogen (TKN)	2.8				1.6				1.91				3.56				5.88				3.7			3.55		2.48		10.5		9.47		2.36			
Turbidity (NTU units)	46	207	80	12	147	24	30.0	8.3	38.0	46.0	26	20	24	40	19	26	28	20	22	14	130	26	27	39	19	12	29	16	7.5	210	15	27	11	63	4.7
Cyanide	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	

MW-8B
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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	ND	5.6	2.4	3.2	2	4.9	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	1.4	0.89	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	1.6	2	2.5	3.7	3	2.2	5.5	3.2	2.3	1.9	1.1	1.8	3.7	2.3	3.4	2	2.1	1.4	4.1	ND	ND	1.8	ND	ND	3.1	1.3	ND	ND	ND	1.6	2.38	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	5.0	
2-Butanone							ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	0.49	0.36	ND	ND	ND	ND	0.35	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.05	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	0.84	1.5	2.4	3.8	2.8	2	5.2	3.8	2.8	1.9	1.2	2.1	5.2	2.9	5	2.4	2.4	1.7	6.4	ND	3.2	3.2	ND	ND	6.7	2.1	ND	ND	ND	2.8	1.90	5.0	
Chloroethane	1	0.96	ND	ND	1.3	1.1	1.4	1.1	1	0.9	0.67	0.87	1.1	0.89	1	0.95	0.98	0.68	0.69	ND	ND	0.78	ND	ND	0.45	0.67	ND	ND	ND	ND	0.63	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41	ND	ND	ND	ND	ND	0.02	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.04	3.0	
1,4-Dichlorobenzene	0.69	0.89	1.6	2.3	1.6	1.1	2.8	1.9	1.5	0.88	0.81	0.95	2.3	1.3	2.4	1	1	0.71	2.6	ND	ND	1.3	ND	ND	2.8	0.66	ND	ND	ND	1.1	1.21	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	0.74	0.52	0.76	0.61	ND	0.44	0.49	0.43	0.87	0.46	0.38	1.4	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	9.1	0.53	5.0	
1,1-Dichloroethane	2.4	1.9	1.6	1	1.7	1.7	1.5	1.4	1.6	1.6	2	2	1.8	1.4	1.4	ND	2.7	1.4	0.76	ND	ND	1.1	ND	ND	0.47	1.1	ND	ND	ND	1.1	2.03	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	5.0	
cis-1,2-Dichloroethene	2.6	2.8	2.4	4	3.8	5	6.4	5.2	4.4	4.3	4	4.2	11	7.8	10	7.3	11	4.6	9.4	3.2	9	6.4	11	5.4	12	6.6	6.9	5.4	9.6	5.8	6.31	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	0.8	0.58	0.5	0.86	0.42	0.4	0.37	0.3	0.34	0.68	0.37	0.52	0.4	0.45	ND	ND	ND	ND	ND	ND	ND	ND	0.34	ND	ND	ND	ND	0.44	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4*	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4*	*
Ethylbenzene	ND	ND	ND	ND	ND	0.47	1.2	1	ND	ND	ND	ND	0.61	ND	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	ND	ND	ND	ND	0.4	0.32	0.95	0.65	0.28	ND	ND	ND	0.56	0.34	0.52	ND	ND	ND	0.72	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.31	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.09	10.0**	**
n-Propylbenzene	ND	ND	ND	ND	ND	ND	0.32	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.21	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene	ND	0.52	ND	1.7	0.93	1.8	2.2	1.2	1.2	1.2	0.85	0.83	3.6	2.1	3	2	2.2	1.2	2.6	ND	ND	1.6	ND	ND	4.4	1.8	ND	ND	ND	1.3	1.17	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.05	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.44	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride	1.9	1.6	2	8.6	3.8	4.6	6.8	5.2	3.1	3.4	2.2	3	11	6.2	5.9	5.1	7.5	2.7	6.2	ND	4.9	4.4	5.5	ND	6.2	2.6	ND	ND	ND	2.8	5.08	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	5.0	

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HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum	ND		0.22		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.45	
Calcium	65.5	65.4	65.3	62.5	69.7	80.1	77.2	73.4	74.6	75.5	73.8	81.5	79.6	78.4	72.5	76.5	86.9	80	74.1	76	87	69.5	78.1	72.3	69	72.5	81.2	78.7	95.8	76.8	73.92	
Iron	7.05	6.61	8.1	8.49	6.9	6.2	21	9.5	7.9	7.7	0.86	6.4	12.4	9.23	9.06	5.09	5.5	4.8	11.4	4.4	6.3	3.49	7.45	3.44	11.5	3.39	4.52	4.19	3	4.17	12.57	0.3
Magnesium	9.83	10.3	9.54	9.24	10.4	11.6	12.5	11.6	11.5	11.4	10.4	12.2	12.2	12.2	11.2	11.6	13	11.9	11.8	12	14	11.1	12.6	11.4	10.8	11.6	12.1	11.5	14	11.2	11.35	35.0
Manganese	7.43	7.62	8.05	9.91	7.9	7.9	12	9.1	9	8.7	6.8	7.7	9.8	8.51	9.39	7.71	7.98	7	10.8	6.9	9.5	5.73	8.77	6.28	11.7	5.9	7.74	7.05	7.26	7.02	8.94	0.3
Potassium	3.01	2.7	3.16	3.36	3.1	2.5	5.8	3.1	3.2	2.6	2.7	2.3	3.7	2.89	3.2	2.24	2.8	2.2	4.3	1.9	2.9	1.7	3.1	ND	3.5	1.9	2.7	ND	ND	3.51	3.03	
Sodium	7.18	6.69	5.48	5.67	6.5	6.4	6.8	6.6	7.1	5.9	9.5	7.1	7.8	7.1	6.3	6.2	11	6.6	6.2	6.7	ND	6.4	7	5.8	4.7	6.5	7.5	6.68	10.7	7.13	7.71	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic	0.02		ND		0.01		0.03		0.02		ND	0.02		0.021			0.02	0.017			ND	0.012	-	-	0.025	0.014	-	0.0174	0.0114	0.0144	0.03	0.025
Barium	0.19		0.17		0.17		0.14		0.14		0.23	0.16		0.161			0.184	0.14			ND	0.137	-	-	0.116	0.137	-	ND	ND	0.124	0.19	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	ND	-	ND	ND	0.0017	0.00	0.05
Copper	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead	0.004	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.0008	ND	ND	0.002	0.002	ND	0.0064	ND	0.0017	0.01	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel	0.04		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0006	-	-	0.007	0.005	-	ND	ND	0.0052	0.02	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND			ND	ND	-	-	0.004	0.005	-	ND	ND	ND	0.00	0.0
Silver	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	0.002	-	ND	ND	ND	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0128	ND	ND	0.00	0.0005
Zinc	ND		ND		ND		ND		0.01		ND	0.02		0.013			0.01	0.015			0.023	0.11	-	-	0.002	0.009	-	ND	0.0209	ND	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity	219	270	250	210	205	225	254	248	269	249	274	178	256	281	247	292	272	296	268	250	280	270	310	270	272	255	270	248	287	266	262.92	
Biochemical Oxygen Demand	ND		4		15.6		ND		ND		2.9	2.8		3.9			ND	ND		ND	ND	3.6	-	-	7	3.2	2.7	ND	ND	1.2	4.57	
Boron	0.08		0.05		0.06		0.1		0.07		0.054	0.047		0.059			0.052	0.052			ND	0.05	-	-	0.06	0.05	-	ND	ND	0.0428	0.04	1.0
Chemical Oxygen Demand	33.6	32.1	42	ND	50.2	10.1	21.6	23.3	16.8	18.2	26.3	13.8	18.4	ND	20.3	18.2	11.2	ND	20.3	ND	89	ND	16.9	7.3	9	ND	12.8	-	19.2	23.4	27.94	
Chromium (Hexavalent)	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.00	0.05
Chloride	12.8	7.79	6.7	5.2	6	5.4	9.6	5.5	5.3	5.3	19.6	6.4	7.6	7.5	4.71	4.17	23.5	4	4.4	3.34	9.9	3.3	6.4	3.1	2.8	3.2	4.3	2.71	4.1	4.7	12.47	250.0
Color (PCU units)			10		12		18		70		30	20		7.5			0	7.5			ND	170	-	-	27	38	-	5	20	10	75.47	15.0
Nitrate-Nitrite	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	ND	0.077	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68	0.032	0.12	10.0
Nitrogen-Ammonia	1.87	1.45	2.4	2.7	0.81	0.83	2.6	1.1	1.1	0.96	0.87	0.99	1.9	1.9	1.54	0.797	0.812	0.73	2.8	1.08	ND	0.804	1.3	0.595	2.46	1.03	1.23	1.22	1.1	0.86	1.68	2.0
Phenols	0.01	0.01	ND	ND	0.01	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND	ND	ND	0.0163	ND	0.0272	ND	ND	0.0148	0.0078	0.0021	0.02	0.001
Sulfate	8.76	8.22	8.2	7.6	8.8	8.4	7.7	7.3	6.9	8.8	10.6	6.2	5.1	6.9	6.24	7.91	7.69	8.8	5.6	ND	ND	6.9	6.8	6.7	4.8	6.1	6.9	6.36	8.5	7.9	8.79	250.0
Total Organic Carbon (TOC)	2.9	2.5	10	4.4	20.8	3.6	8.2	3.5	5.6	3.5	3.8	4	7.4	5.4	4.4	2.2	5.3	2.8	2.6	ND	ND	3.2	4	2.9	6.2	3.8	3.5	2.59	4.6	4.8	6.73	
Total Dissolved Solids (TDS)		311	285	268	297	276	311	294	280	271	272	304	330	319	297	314	319	283	299	260	250	292	320	283	274	276	291	269	329	290	296.77	500.0
Total Hardness	204	206	202	194	217	248	244	231	234	235	227	254	249	250	230	240	270	249	234	240	270	219	247	228	217	229	261	212	400	228	239.49	
Total Kjeldahl Nitrogen (TKN)	1.81		4.5		2.7		3.2		1.5		1.7	1.1		2.31			1.47	1.2		0.508	1.3	0.98	-	-	ND	1.14	-	1.23	0.88	1.6	2.40	
Turbidity (NTU units)		8	19	9	41.2	24.4	10.7	3.6	14	27.2	15.1	3.3	4.2	20	16	0	3	6	7	3.9	2.2	18.1	1.6	0	7.3	18.5	9.9	2	3.6	0.3	28.32	5.0
Cyanide	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.00	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected. J = Estimated.
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-9B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	ND	0.12	ND	ND	ND	ND	ND										ND		ND				ND												ND
Bromobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND																												
Bromoform	ND	ND	ND	ND	ND	ND	ND																												
Bromomethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Chloroform	0.86	1.44	ND	ND	ND	ND	ND																												
Chloromethane	ND	ND	ND	2.0	ND	ND	ND										ND		ND				ND												ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND																												
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND																												
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND																												
Dibromomethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND										ND		0.6				0.6 J												ND
1,1-Dichloroethane	5.73	5.65	7.73	4.0	3.0	4.0	2.0										3.0		ND				3.0												3.05
1,2-Dichloroethane	0.17	0.24	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
cis-1,2-Dichloroethene	ND	1.12	0.97	ND	ND	ND	ND										ND		ND				ND												ND
trans-1,2-Dichloroethene	1.39	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Iodomethane																																			
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Methylene chloride	5.95	1.55	0.43	3.0	1.0	1.0	6.0										ND		4.0				ND												ND
4-Methyl-2-pentanone																																			
Naphthalene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Styrene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Toluene	<DL	<DL	ND	ND	ND	ND	ND										ND		ND				2.0												ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND										ND		ND				ND												ND
o-Xylene	ND	ND	ND		ND												ND		ND				ND												ND
p-Xylene & m-Xylene			ND	ND	ND												ND		ND				ND												ND

MW-9B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	61.8				21.6												35.0																		
Calcium	82.6	103	47	49.1	51.9	41.9	37.6	79.3						44.7		48.2	55.6						53.1												
Iron	**110**	**90.3**	**0.6**	**72.3**	**40.6**	**25.6**	**37.5**	**36.2**						**73.1**		**68.1**	**77.2**						**70.1**												
Magnesium	14.4	19.5	13.3	16.3	11.9	8.6	10.2	15.3						16.4		16.2	16.9						16.9												
Manganese	**1.24**	**1.48**	**0.66**	**0.95**	**0.7**	**0.33**	**1.07**	**0.48**						**0.84**		**1.03**	**1.6**						**1.06**												
Potassium	10.5	8.7	5.8	12.8	6.9	5.7	6.1	8.1						11.9		10.5	8.9						9.44												
Sodium	3.4	2.2	3	4.5	4.1	3.3	3.7	6.3						3.7		3.24	4.0						3.51												
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	<DL				ND												ND																		
Arsenic	ND				0.015												**0.028**																		
Barium	0.21				0.12												0.208																		
Beryllium					ND												0.002																		
Cadmium		ND	0	ND	ND	ND	ND	ND						ND		ND	ND						**0.013**												
Chromium (Total)	**0.06**	0.03	0.02	**0.08**	**0.07**	**0.05**	0.04	**0.06**						**0.11**			**0.076**						**0.215**												
Copper	0.12				0.05												0.065																		
Lead	0.015	<DL	0.010	0.013	0.008	0.007	0.014	0.015						**0.031**		**0.026**	0.018						0.014												
Mercury	<DL				ND												ND																		
Nickel	**0.82**				0.07												0.087																		
Selenium	**0.08**	**0.03**	**0.01**	ND	ND	ND	ND	ND						0		ND	ND						ND												
Silver	ND				ND												ND																		
Thallium	ND				ND												ND																		
Zinc	**0.32**				0.16												0.28																		
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity			402	140		158	143	147.0																											
Biochemical Oxygen Demand																																			
Boron					0.06												ND																		
Chemical Oxygen Demand		<DL	<DL	ND		ND	ND	ND						78.3																					
Chromium (Hexavalent)	<DL				ND												ND																		
Chloride			11	12		10.0	15.0	8.0																											
Color (PCU units)																																			
Nitrate-Nitrite		<DL	<DL	0.27		ND	ND	0.2																											
Nitrogen-Ammonia		<DL	<DL	0.4	0.2	ND	0.1	0.2						ND																					
Phenols		ND	**0.078**	ND		ND	ND	ND						**0.031**																					
Sulfate			22.3	11		42.0	15.0	7.0																											
Total Organic Carbon (TOC)		14	2	3	2.0	2.0	1.0	5.2						2.8																					32.7
Total Dissolved Solids (TDS)			180	**858**		140	163.0	176.0																											
Total Hardness	265	340	172			156	135.0	261.0																											
Total Kjeldahl Nitrogen (TKN)					1.3												3.3																		
Turbidity (NTU units)			**182**	**1110**		**130**	**4.0**	**1840**																											
Cyanide																	ND																		

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HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone									2.8	ND	3.6	2.6	ND	1.8	ND	ND	ND	ND	ND	ND	ND	1.5	-	ND	-	ND	ND	ND	ND	ND	0.56	50.0	
Acrylonitrile									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Benzene		ND		ND					1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.04	1.0	
Bromobenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
Bromochloromethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
Carbon disulfide									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene		ND		ND					0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.01	5.0	
Chloroethane		ND		ND					0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.02	5.0	
Chloroform				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.08	7.0	
Chloromethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.06	5.0	
2-Chlorotoluene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane				ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene		ND		ND					0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.01	3.0	
trans-1,4-Dichloro-2-butene									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane		ND		ND					1.9	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.08	5.0	
1,1-Dichloroethane		2.1		2.8					1.9	2.2	2.3	2.2	2.7	1.6	2.3	0.97	1.2	1.7	1.3	ND	ND	1.7	-	ND	-	1.5	ND	ND	ND	ND	1.99	5.0	
1,2-Dichloroethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.01	0.6	
1,1-Dichloroethene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene		ND		ND					2.7	0.41	0.38	0.38	0.41	ND	0.43	ND	ND	ND	ND	ND	ND	0.37	-	ND	-	0.43	ND	ND	ND	ND	0.22	5.0	
trans-1,2-Dichloroethene		ND		ND					0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.05	5.0	
1,2-Dichloropropane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	0.5	
Iodomethane									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
p-Isopropyltoluene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
Methylene chloride		ND		ND					ND	ND	ND	ND	ND	ND	ND	0.75	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.68	5.0	
4-Methyl-2-pentanone									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00		
Naphthalene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	10.0	**
n-Propylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
Styrene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
Toluene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.06	5.0	
1,2,3-Trichlorobenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
1,1,1-Trichloroethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2-Trichloroethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene		ND		ND					0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.02	5.0	
Trichlorofluoromethane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-	0.00	5.0	
Vinyl acetate									ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00		
Vinyl chloride		ND		ND					1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.04	2.0	
o-Xylene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	
p-Xylene & m-Xylene		ND		ND					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ND	ND	0.00	5.0	

MW-9B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum									2.3			ND		0.238			ND	0.59			0.12	ND	-	-	-	ND	-	ND	-	0.0563	6.76	
Calcium									60.7	52.6		68	72.1	62	61.9	60.5	54.9	65.4	61.8	57	63	54.7	-	61.2	-	63.8	75.6	70.7	-	75.6	55.62	
Iron									**2.8**	**0.31**		0.28	**2**	**1.11**	**0.451**	**0.46**	**0.472**	**1.2**	**0.86**	**0.33**	**1.3**	**0.3**	-	**1.44**	-	**0.65**	**1.22**	**0.462**	-	0.135	21.74	0.3
Magnesium									8.2	6.9		8.5	9.1	8.44	8.26	8.98	8.74	9.5	9.8	9.2	10	8.8	-	9.9	-	9.5	10.1	9.52	-	10.6	10.30	35.0
Manganese									0.14	0.032		0.05	0.03	ND	ND	0.07	0.035	0.12	0.055	0.029	0.053	0.021	-	0.066	-	**0.969**	**0.428**	**0.779**	-	0.118	0.44	0.3
Potassium									1.9	1		1.4	5	1.61	1.18	1.17	1.7	1.8	1.7	1	2.3	1.2	-	2.1	-	1.4	3.3	ND	-	2.04	4.16	
Sodium									4.2	3.5		4.9	5.7	4.8	4.3	4.1	4.7	4.6	4.7	4.1	ND	4.1	-	4.3	-	4.4	5.5	ND	-	5.89	3.60	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.00	0.003
Arsenic									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.00	0.025
Barium									0.04			0.02		0.019			0.019	0.029			ND	0.016	-	-	-	0.021	-	ND	-	0.0204	0.04	1.0
Beryllium									ND			ND		ND			ND	ND			ND	2E-04	-	-	-	ND	-	ND	-	ND	0.00	
Cadmium									ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND	0.00	0.005
Chromium (Total)									0.01			ND	ND	ND	ND		ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.03	0.05
Copper									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.01	0.2
Lead									0.01	ND		ND	ND	ND	ND	ND	ND	0.006	ND	0.001	ND	0.001	-	ND	-	0.002	ND	0.005	-	ND	0.01	0.025
Mercury									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.00	0.0007
Nickel									ND			ND		ND			ND	ND			ND	ND	-	-	-	0.002	-	ND	-	0.0011	0.05	0.1
Selenium									ND	ND		ND	ND	ND	ND		ND	ND			ND	ND	-	-	-	0.004	-	ND	-	ND	0.00	0.0
Silver									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.00	0.05
Thallium									ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	0.00	0.0005
Zinc									0.03			0.15		0.054			0.143	0.15			0.17	0.059	-	-	-	0.255	-	0.204	-	0.0055	0.11	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity									158	155						1.860			226	220		180	-	-	-	-	-	-	-	200	112.2	
Biochemical Oxygen Demand									-											ND		-	-	-	-	-	-	-	-	1.2	0.1	
Boron									ND			ND		ND			ND	ND				ND	-	-	-	-	-	ND	-	0.0097	0.0	1.0
Chemical Oxygen Demand									14.9	23.4		19.2				ND	ND	ND	107	ND		6	-	30.3	-	-	-	-	ND	17.2	12.3	
Chromium (Hexavalent)									ND													ND	-	-	-	-	-	-	-	0.0099	0.0	0.05
Chloride									5.4	4.2						5.86	6.59		5.5	60.7		5	-	4.3	-	-	-	-	-	5.9	8.0	250.0
Color (PCU units)									-													12	-	-	-	-	-	-	5	10	2.7	15.0
Nitrate-Nitrite									0.05	0.15									ND	0.069		ND	-	ND	-	-	-	-	0.055	0.035	0.0	10.0
Nitrogen-Ammonia									ND	ND		ND				ND	ND	ND	ND	ND		ND	-	ND	-	-	-	-	ND	0.026	0.0	2.0
Phenols									ND	**0.0081**			ND	ND	ND	ND	ND	ND	ND			ND	-	-	-	-	-	-	-	**0.0031**	0.0	0.001
Sulfate									8.2	10.1						9.52	8.13		8.8	8.5		8.3	-	7.9	-	-	-	-	-	9.6	8.8	250.0
Total Organic Carbon (TOC)		2.7							-	1.5	5	2.4	2.3		ND	BD	ND	2.5	ND	ND		1.5	-	-	-	-	-	-	2.6	ND	2.8	
Total Dissolved Solids (TDS)									244	177										240		215	-	228	-	-	-	-	-	225	167.4	500.0
Total Hardness									185	160		205			190	190	170		195		200	173	-	194	-	-	-	170	-	200	154.8	
Total Kjeldahl Nitrogen (TKN)									ND								ND	ND		ND		ND	-	-	-	-	-	-	0.11	0.27	0.3	
Turbidity (NTU units)									-	**5.2**		**18.5**	**19.1**	**48**	3	**12**	**14**	4	**22.8**	**11.4**	**27.5**	**17**	-	**9.2**	**28.3**	**31**	**23.8**	**14.4**	3.5	**14.8**	138.2	5.0
Cyanide									-													-	-	-	-	-	-	-	-	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected. J = Estimated.
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-10B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene		1.36	3.78	4.0	5.0	2.0	4.0		4.0		3.0		4		3		3		3		3		3	3	2	2	3	3	2	2	2	2	2.74	2.29
Bromobenzene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		ND	<DL	ND	ND	ND	ND		ND		ND		ND																					
Bromoform		ND	ND	ND	ND	ND	ND		ND		ND		ND																					
Bromomethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone																																			
n-Butylbenzene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene		1.91	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide																																			
Carbon tetrachloride		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		0.38	0.86	1.0	ND	ND	1.0		1.0		1.0		1		1		0.8		1		1		1	1	1	0.9	0.9	1	1	2	1	0.7	0.9	1.22	1.58
Chloroethane		ND	1.0	ND	ND	ND	2.0		ND		ND		ND		ND		ND		0.5		ND		ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		1.73	<DL	ND	ND	ND	ND		ND		ND		ND																					
Chloromethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND	ND		ND		ND		ND																					
1,2-Dibromo-3-chloropropane		ND	ND	ND	ND	ND	ND		ND																									
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND		ND																									
Dibromomethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		0.14	0.18	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		0.82	0.66	ND	ND	ND	1.0		0.7		0.6		0.6		0.7		ND		0.6		0.7		0.7	0.7	0.6	0.6	ND	0.6	ND	0.6	0.6	ND	ND	ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane		ND	16.8	4.0	ND	ND	ND		3.0		1.0		ND		ND		1		2		3		2 J	1	1	0.9	1	1	ND	0.7	1	ND	0.9	ND
1,1-Dichloroethane		26.9	22.4	30.0	26.0	30.0	34.0		26.0		22.0		25		18		25		22		22		19	20	18	20	22	23	20	19	16	19	17	14.7	17.8
1,2-Dichloroethane		0.96	0.5	ND	1.0	1.0	ND		ND		ND		ND		ND		ND		ND		0.6		ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	0.15	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		34.8	21.4	26.0	9.0	6.0	24.0		17.0		10.0		8		15		13		18		11		15	15	15	13	19	19	14	17	15	17	20	21.7	13.6
trans-1,2-Dichloroethene		2.86	1.5	2.0	1.0	ND	2.0		1.0		1.0		ND		1		0.7		0.7		1		0.7	0.9	0.7	0.7	0.7	0.9	0.5	ND	0.6	ND	ND	1.42	ND
1,2-Dichloropropane		ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene		ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1-3-Dichloropropene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene		0.16	1.66	4.0	4.0	ND	3.0		3.0		3.0		3		2		0.7		1		3		0.8	2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95
2-Hexanone																																			
Hexachlorobutadiene		ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane																																			
Isopropylbenzene		0.21	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.88
p-Isopropyltoluene		1.91	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride		6.87	<DL	2.0	1.0	2.0	3.0		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone																																			
Naphthalene		0.40	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene		0.32	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		0.22	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene		ND	0.31	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		0.12	ND	ND	ND	ND	ND		0.6		ND		ND		ND		ND		ND		ND		2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene		ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	3.83	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane		7.76	ND	2.0	ND	1.0	3.0		2.0		ND		0.6		1		0.9		1		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene		4.80	7.52	14.0	3.0	3.0	3.0		9.0		7.0		5		9		7		6		5		6	8	4	8	4	9	4	5	3	7	3	5.69	2.7
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene		ND	0.72	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																			
Vinyl chloride		ND	25.9	42.0	19.0	8.0	36.0		22.0		12.0		ND		15		15		15		15		13	13	10	8	14	14	8	14	10	10	11	15.6	ND
o-Xylene		1.47	0.98	ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Xylene & m-Xylene			0.43	2.0	ND				2.0		ND		1.2		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum					12.6				6.27				1.33				ND				1.44			1.80		2.43		0.13		0.1		0.146		ND	
Calcium		72.2	59.4	64.6	65.0	51.8	58	62.8	73.5	66.7		61.6	62.1	55.6	57.5	66.2	ND	55	52.6	61.1	65.8	64.7	64.4	61.7	59.3	63.9	62.7	68.6	55.9	66.8	68.1	66.9	59.4	62.7	62.3
Iron		**16.8**	**12.4**	**8.96**	**23.9**	**0.73**	**11.8**	**7.1**	**21.3**	**22**		**12.1**	**7.31**	**5.55**	**8.9**	**38.8**	ND	**10.7**	**43.5**	**10.6**	**11.3**	**15.3**	**11.1**	**7.90**	**14.6**	**5.48**	**6.26**	**4.13**	**1.01**	**1.1**	**5.45**	**3.72**	**1.46**	**5**	**2.8**
Magnesium		22.7	21.4	20.1	22.7	15.6	19.4	20.6	25.6	24.1		20.1	20	19.2	20.5	27.3	0.13	18.2	22.1	19.7	21	21.9	21.4	20.2	20.4	20.8	19.8	20.3	18.9	20.3	22.3	21.4	18.7	21.1	20.2
Manganese		**12.8**	**11.9**	**12**	**13.1**	**9.75**	**11.6**	**12**	**14.7**	**12.5**		**11.9**	**11.9**	**10.9**	**10.3**	**12.5**	ND	**9.22**	**10.0**	**11.0**	**12.7**	**11.9**	**11.7**	**11.4**	**10.7**	**10.7**	**10.2**	**11.3**	**7.94**	**10.9**	**9.91**	**11.3**	**7.97**	**11.4**	**6.93**
Potassium		2.7	2.3	2.4	5.0	3.3	3.3	3.8	3.58	3.9		3.4	2.34	2.88	3.18	5.24	ND	3.56	5.9	3.12	2.49	3.49	2.89	3.00	3.18	3.84	4.28	3.24	2.97	2.58	5.54	3.46	2.77	2.54	4.53
Sodium		9.9	11.6	10.2	11.3	10.1	10.7	10.7	12.2	10		8.86	10.6	10	10.7	3.02	11	10.5	7.6	10.7	10.3	10.7	9.45	10.9	9.83	10.6	9.76	8.96	9.39	9.86	10.4	9.82	9.62	9.84	10.3
PARAMETER (mg/l) TOXIC METALS																																			
Antimony					ND				ND				ND				ND				ND			ND		ND		ND		**0.05**		ND		ND	
Arsenic					0.021				**0.028**				0.016				0.013				0.02			**0.030**		0.01		0.01		0.01		0.013		**0.03**	
Barium					0.17				0.25				0.1				ND				0.13			0.124		0.13		0.09		0.09		0.105		0.11	
Beryllium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Cadmium		<DL	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	0	ND	ND	ND	0.002	ND	0	ND	**0.01**	ND	ND	ND	ND	**0.01**	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)					0.03				0.02				0.02				ND				**0.35**			0.026		0.03		ND		0.01		0.013		ND	
Copper					0.02				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Lead		0.020	<DL	0.022	**0.029**	ND	0.018	0.023	0.010	**0.034**	0.021	0.009	0.007	0.012	0.005	**0.026**	0.004	0.013	0.009	0.006	0.02	0.003	0.010	**0.042**	0.010	0.01	0	0.01	0	0	0	0.014	0	0.01	0.003
Mercury					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Nickel					ND				0.04				0.06				ND				**0.15**			0.055		0.07		0.04		0.05		0.048		0.06	
Selenium		<DL			ND				ND				ND			ND	ND				ND			ND		ND		ND		ND		ND		ND	
Silver					ND				ND				0.01				ND				ND			ND		ND		ND		ND		ND		ND	
Thallium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Zinc					0.08				0.04				0.03				ND				ND			ND		0.03		ND		ND		ND		0.03	
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity		278	271	247	296	306	321	294.0	282	259	278	257	275	238	262	264	291	261	247	288	265	256	246	310	260	281	317	288	268	310	285	281	251	282	257
Biochemical Oxygen Demand					3				ND				7				8				15			9		13		17		ND		9		14	
Boron					0.1				ND				0.02				ND				0.07			0.112		0.06		0.08		0.07		0.081		0.08	
Chemical Oxygen Demand		16	17	ND	8	6.0	ND	15.0	45.4	29.9	18.1	16.4	23.4	45.3	27.7	20.4	25.3	ND	25.1	45.4	36.6	ND	29.5	19.0	ND	22.4	39.1	26.3	25.4	ND	38.3	ND	23.2	ND	24.3
Chromium (Hexavalent)					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Chloride		21	20.3	23	22	26.0	18.0	43.0	20.7	16.4	23.2	23	25.6	16.5	19.9	17.8	23.3	18.4	15	21.1	24.4	18.9	15.0	24.0	13.2	20.6	12.8	20.3	16.3	20.8	13.7	18	14.5	18.5	15.3
Color (PCU units)					ND				**30**				**20**				**40**				**30**			**60**		**20**		**35**		**50**		**20**		**15**	
Nitrate-Nitrite		<DL	<DL	ND	ND	ND	ND	0.1	1.63	1.1	ND	ND	ND	0.86	ND	ND	0.48	0.76	ND	0.096	0.78	ND	ND	1.56	ND	0.58	ND	0.61	0.62	0.71	ND	1.12	0.1	0.21	ND
Nitrogen-Ammonia		<DL	<DL	ND	0.3	0.8	1.2	**4.6**	1.76	1.9	1.99	1.2	**2.05**	0.51	1.3	**3.74**	1.39	1.3	**2.02**	**2.92**	1.5	1.7	0.890	1.24	1.54	1.26	1.45	1.66	0.88	1.14	1.32	1.52	0.76	1.68	0.684
Phenols		ND	ND	ND	**0.010**	ND	ND	ND	**0.010**	ND	**0.018**	**0.013**	**0.031**	ND	**0.020**	**0.015**	**0.017**	**0.008**	**0.010**	**0.040**	**0.05**	**0.013**	**0.01**	**0.014**	**0.005**	**0.01**	**0.01**	**0.01**	**0.02**	**0.01**	**0.020**	**0.0112**	**0.02**	**0.01**	**0.0129**
Sulfate		0.5	4.5	ND	ND	ND	ND	ND	14	11	ND	ND	5	5.7	6.7	6.7	ND	ND	ND	ND	ND	8.7	6.4	ND	ND	12	7.1	ND	14	7.4	106	ND	11	6.37	7.15
Total Organic Carbon (TOC)		13	5.4	6	6	6	5.0	14.0	8.9	6.3	7.2	5.6	7.8	4.7	7	4.9	8.9	4.8	9.5	8.9	6.4	6.1	7.0	6.4	4.6	ND	4.5	6.2	4.5	6	5.3	7	4.8	4.8	4.3
Total Dissolved Solids (TDS)		290	311	336	360	149	306	332.0	228	376	347	338	305	283	284	288	336	282	269	330	319	290	282	326	290	319	271	368	292	306	308	290	305	336	297
Total Hardness		272	237	294	256	194	225	242.0	320	304	368	277	299	295	422	284	352	212	222	234	251	252	249	237	232	245	199	255	217	250	262	255	225	243	239
Total Kjeldahl Nitrogen (TKN)					1.9				1.62				2.88				3.28				2.35			5.01		ND		3.03		2.52		3.24		4.71	
Turbidity (NTU units)		**3200**	**496**	**280**	**386**	**24.0**	**214**	**138.0**	**220**	**160**	**240**	**75**	**24**	**150**	**88**	**66**	**23**	**9**	**130**	**19**	**27**	**46**	**70**	**29**	**36**	**14**	**43**	**18**	**23**	**700**	**18**	**22**	**9**	**6.1**	2.4
Cyanide					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND			

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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	ND	ND	2.8	14	ND	2	ND	1.2	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	1.5	2.2	2.1	2.3	2.2	2.3	1.8	1.6	2	1.6	1.6	1.4	1.7	ND	0.59	0.85	1.8	1.4	0.82	ND	ND	1.9	ND	ND	1.6	1.3	ND	ND	1.4	ND	1.98	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.03	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	0.58	1.5	1.4	1.5	1.4	1.5	0.87	1	1.2	0.95	0.88	1.2	1	ND	0.36	0.52	1.4	0.98	ND	ND	ND	1.7	ND	ND	1.2	0.93	ND	ND	ND	ND	0.83	5.0	
Chloroethane	ND	ND	ND	ND	0.4	0.55	0.33	0.4	ND	0.37	0.5	ND	0.52	ND	ND	0.26	0.59	0.55	ND	ND	ND	0.67	ND	ND	0.75	0.57	ND	ND	ND	ND	0.19	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	ND	0.55	ND	ND	0.53	0.57	ND	ND	ND	0.31	0.3	ND	0.34	ND	ND	ND	0.41	ND	ND	ND	ND	0.53	ND	ND	0.37	0.29	ND	ND	ND	ND	0.27	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	1.3	0.95	0.58	0.85	ND	0.85	0.64	ND	ND	ND	0.33	0.42	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	8.4	0.95	5.0	
1,1-Dichloroethane	17	15	16.1	17.6	18	16	21	18	19	17	19	12	18	13	11	14	18	14	12	12	15	12	13	21	11	15	11	11	16	11.5	18.38	5.0	
1,2-Dichloroethane	ND	ND	ND	0.5	ND	ND	0.4	ND	ND	0.33	ND	ND	0.39	ND	ND	ND	0.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.4	ND	ND	ND	0.31	0.35	ND	0.37	ND	ND	0.24	0.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	
cis-1,2-Dichloroethene	17	20	26.1	31.5	35	39	22	28	36	35	31	27	28	15	19	31	55	26	19	36	37	40	38	49	41	54	30	38	43	35.2	25.17	5.0	
trans-1,2-Dichloroethene	0.53	0.67	1.1	1.1	0.96	1.1	0.69	0.61	0.87	0.88	0.64	ND	1.1	ND	0.34	0.52	0.97	0.58	ND	ND	ND	ND	ND	ND	0.64	1.1	ND	ND	ND	ND	0.65	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.03	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	10.0	**
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.07	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene	2.8	2.6	4	4.3	10	7.2	4.9	3	2.2	2.3	1.9	1.4	2.2	1.6	1.5	2.2	1.9	1.8	1.9	ND	ND	2.6	ND	ND	5.5	5.9	ND	ND	2.1	ND	4.08	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride	8	6.4	12.2	15.9	12	13	8.8	10	9.3	9	8.6	6.7	15	2	3.6	4.9	16	6.5	2.4	10	9.2	9.6	7	8.9	6.8	7.5	ND	ND	ND	4.9	10.71	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	5.0	

MW-10B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum	ND		0.71		3.4		ND		ND		ND	ND		ND			ND	ND			ND	0.03	0	-	ND	ND	-	ND	ND	0.0303	0.95	
Calcium	69.3	57.4	61.2	71.6	66.7	73.1	66.8	64.2	68.9	63.7	74.9	67.7	69.1	63	71.1	67.5	75.5	75.1	70.7	72	79	66.8	74.7	74	70	74.5	66.4	72.9	83	72.4	65.11	
Iron	4.89	4.25	8.82	1.63	6.1	4	ND	0.44	0.61	1.7	0.48	0.24	0.52	0.337	0.268	0.599	3.48	0.5	0.54	2.6	1.6	1.8	1.62	1.04	0.66	1.42	ND	0.294	1.26	0.137	6.52	0.3
Magnesium	21.6	19.2	21.3	21.4	21.3	22.6	20.6	19.4	22	20.6	23.1	21.8	21.8	19.9	22.6	21.6	24.5	24.1	23	25	26	23.3	25.4	24.9	23.8	24.4	20.9	20.7	26	22.4	21.32	35.0
Manganese	11.2	8.8	10.1	8.81	9.5	9.7	2.3	4.3	5.4	6.6	10.6	5.7	8.3	5.02	3.06	4.38	11.3	5.9	6.1	9.7	11	9.02	10.5	5.78	6.57	7.54	2.74	3.71	10.8	2.16	9.07	0.3
Potassium	3.02	2.87	2.71	2.65	3.4	2.6	2.3	2.2	2.5	2.3	2.4	2.5	2.5	1.76	2.08	2.07	2.42	2.4	2.2	2.3	2.3	2.2	2.5	2.4	2	2.4	2.2	ND	ND	2.59	2.83	
Sodium	9.64	8.99	9.91	10.6	8.8	9.2	9.7	8.8	9.3	8.6	9.4	9.9	9.5	9.2	9.8	9.4	9	8.9	9.5	8.7	ND	8.7	9.2	8.3	9.1	9.1	9.3	9.29	9.86	8.22	9.48	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic	0.016		ND		ND		ND		ND		ND	ND		ND			0.013	ND			ND	0.005	-	-	ND	0.005	-	ND	ND	ND	0.01	0.025
Barium	0.105		0.1		0.16		0.14		0.08		0.093	0.08		0.085			0.094	0.074			ND	0.092	-	-	0.071	0.073	-	ND	ND	0.0551	0.08	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)	ND		0.01		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.02	0.05
Copper	ND		ND		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead	0.007	0	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.002	ND	ND	ND	ND	ND	0.004	ND	0.0016	0.01	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel	0.046		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.005	-	-	0.005	0.005	-	ND	ND	0.0036	0.02	0.1
Selenium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	ND	0.006	-	ND	ND	ND	0.00	0.0
Silver	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	0.001	-	ND	ND	ND	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0005
Zinc	0.029		0.01		ND		ND		ND		ND	0.01		ND			0.01	0.014			ND	0.004	-	-	0.014	ND	-	ND	ND	0.0039	0.01	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity	286	276	335	270	274	267	272	280	242	268	349	134	321	314	261	257	340	331	325	290	330	310	330	311	319	303	260	268	315	267	282.5	
Biochemical Oxygen Demand	4		7		ND		ND		ND		4.4	2.7		ND			ND	2.6		5	ND	4.4	-	-	3.5	2.2	2.4	ND	ND	1.2	4.1	
Boron	0.073		0.05		0.07		ND		0.06		0.052	0.07		0.04			0.059	0.057			ND	0.07	-	-	0.05	0.06	-	ND	ND	0.0452	0.0	1.0
Chemical Oxygen Demand	38.8	12.8	38	18	19.9	14.1	10.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.9	ND	23	11.4	9.7	ND	ND	11.3	8.4	-	21.3	13	14.6	
Chromium (Hexavalent)	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0033	0.0	0.05
Chloride	19.9	12.8	12	14	12.3	11	16.8	11.7	9.2	10.9	14	10.1	13.9	13	12.6	11.5	11.5	8	11.3	8.75	10.4	8.9	11.5	6.4	8.4	11.2	9.1	8.71	11.7	12.5	16.0	250.0
Color (PCU units)	50		ND		100		15		5		40	ND		10			0	12.5			5	39	-	-	8	22	-	ND	15	10	20.4	15.0
Nitrate-Nitrite	0.217	ND	ND	ND	0.18	ND	1.2	ND	ND	ND	0.12	ND	1.3	ND	ND		ND	ND	1.6	0.056	0.305	ND	ND	ND	ND	ND	1.5	ND	0.054	ND	0.3	10.0
Nitrogen-Ammonia	1.79	1.17	1.8	1.1	0.4	1.2	0.86	0.37	0.26	0.65	1	0.52	0.88	0.655	0.235	0.212	0.823	0.44	0.29	1.2	1.64	0.796	0.852	0.357	0.496	0.709	0.2	0.44	1.2	0.19	1.1	2.0
Phenols	0.0074	0.009	ND	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.004	0.0	0.001
Sulfate	5.52	7.27	7.2	6.1	7.3	6.9	6.1	7.1	7.1	6.6	6.8	4.3	5.4	6.7	7.2	6.91	5.16	7.7	5.8	ND	ND	5.3	5.4	6.2	5.4	5.4	6.2	5.65	6.1	6.2	6.5	250.0
Total Organic Carbon (TOC)	3.1	2.4	4.2	3.2	4.4	3.6	3	2.4	3	3.1	2.7	4.4	5.3	2.7	1.6	1.5	3.6	3	1.4	3.9	3.6	4	3.6	3.4	3.9	3	3.1	1.65	5.2	ND	4.9	
Total Dissolved Solids (TDS)	320	309	322	312	331	287	307	282	404	378	325	308	318	286	294	290	308	295	296	410	370	339	332	326	324	311	278	300	342	279	311.4	500.0
Total Hardness	262	222	241	267	254	276	252	240	262	244	282	259	262	240	270	260	290	287	271	280	310	263	291	287	273	286	257	250	350	250	265.0	
Total Kjeldahl Nitrogen (TKN)	2.19		3.1		1.4		1.3		ND		1.6	ND		ND			1.6	1.4		0.839	1.55	1.25	-	-	0.78	0.88	-	0.32	1	0.4	1.6	
Turbidity (NTU units)	36	8.9	140	23	75.7	109	1.9	1.7	3	6.2	6.9	1.9	4.5	37	8	0	4	0	4.1	3.1	0.1	0.3	3	0	9.4	25.4	3.3	0.8	1.7	1.4	117.6	5.0
Cyanide			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected. J = Estimated.
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-11B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	1.45	8.87	0.38		6.0	3.0	2.0								2				3.0				2		3						2		1		2.45
Bromobenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Bromochloromethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Bromodichloromethane	ND	ND	ND		ND	ND	ND																												
Bromoform	ND	ND	ND		ND	ND	ND																												
Bromomethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
sec-Butylbenzene	0.16	0.23	<DL		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
tert-Butylbenzene	ND	0.20	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Chlorobenzene	0.14	0.20	<DL		ND	ND	1.0								ND				0.6				ND		ND						1		ND		1.26
Chloroethane	ND	ND	ND		6.0	ND	ND								3				1.0				1		0.9						ND		ND		ND
Chloroform	ND	<DL	ND		ND	ND	ND																												
Chloromethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
2-Chlorotoluene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
4-Chlorotoluene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Dibromochloromethane	ND	ND	ND		ND	ND	ND																												
1,2-Dibromo-3-chloropropane	ND	ND	ND		ND	ND	ND																												
1,2-Dibromoethane	ND	ND	ND		ND	ND	ND																												
Dibromomethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,2-Dichlorobenzene	ND	<DL	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,3-Dichlorobenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,4-Dichlorobenzene	ND	0.23	ND		ND	ND	ND								ND				1.0				ND		ND						ND		ND		ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND		ND	ND	ND								ND				2.0				0.7 J		1						ND		0.7		ND
1,1-Dichloroethane	6.25	7.33	5.16		16.0	2.0	5.0								2				4.0				3		2						3		2		2.18
1,2-Dichloroethane	0.16	<DL	ND		1.0	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,1-Dichloroethene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
cis-1,2-Dichloroethene	ND	19.7	10.6		30.0	8.0	12.0								7				12.0				8		6						9		5		5.9
trans-1,2-Dichloroethene	14.3	0.74	0.41		28.0	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,2-Dichloropropane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,3-Dichloropropane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
2,2-Dichloropropane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,1-Dichloropropene	ND	ND	<DL		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
cis-1-3-Dichloropropene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
trans-1,3-Dichloropropene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Ethylbenzene	0.16	0.25	0.13		ND	ND	2.0								ND				1.0				ND		ND						ND		ND		1.06
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Iodomethane																																			
Isopropylbenzene	0.52	0.99	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		1.02
p-Isopropyltoluene	ND	0.20	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Methylene chloride	1.76	6.00	ND		3.0	3.0	ND								ND				ND				ND		ND						ND		ND		ND
4-Methyl-2-pentanone																																			
Naphthalene	0.52	0.17	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
n-Propylbenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Styrene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,1,2,2-Tetrachloroethane	ND	1.90	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Tetrachloroethene	1.48	ND	0.79		ND	ND	ND								0.6				ND				ND		ND						ND		ND		ND
Toluene	<DL	0.35	ND		ND	ND	ND								ND				ND				0.8		ND						ND		ND		ND
1,2,3-Trichlorobenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,2,4-Trichlorobenzene	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,1,1-Trichloroethane	ND	1.22	0.43		ND	ND	ND								ND				ND				ND		ND						1		ND		ND
1,1,2-Trichloroethane	ND	ND	<DL		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Trichloroethene	3.53	4.75	2.0		2.0	2.0	4.0								2				4.0				3		3						3		2		2.85
Trichlorofluoromethane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,2,3-Trichloropropane	ND	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
1,2,4-Trimethylbenzene	0.20	ND	ND		ND	ND	2.0								ND				ND				ND		ND						ND		ND		ND
1,3,5-Trimethylbenzene	0.120	ND	ND		ND	ND	ND								ND				ND				ND		ND						ND		ND		ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	ND		11.0	ND	7.0								3				4.0				2		2						3		1		ND
o-Xylene	0.070	0.36	ND		ND										ND				ND				ND		ND						ND		ND		0.92
p-Xylene & m-Xylene			ND		ND										ND				ND				ND		ND						ND		ND		1.78

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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	4.3				3.1																														
Calcium	23.4	16.5	25.1		48.2	13.9	25.4			12.3				28.2	11.6	14			23.6				31.5		19.7						29.7				36.7
Iron	**26.9**	**11.7**	**26.5**		**25.1**	**13.1**	**18.2**			**13.1**				**22.7**	**12.7**	**39.3**			**11.1**				**47.6**		**17.2**						**26.5**				**19.3**
Magnesium	7.6	4.5	8.1		14.8	4	9.8			4.61				9.5	3.87	8.09			6.5				7.93		5.45						9.34				14
Manganese	**6.99**	**6.5**	**7.71**		**17.1**	**5.42**	**7.44**			**4.56**				**8.5**	**4.45**	**5.27**			**6.5**				**8.69**		**7.80**						**11.9**				**10.8**
Potassium	3.3	1.1	4		4.1	1.6	3.1			3.46				4.04	2.04	9.5			3.2				4.62		1.84						3.19				3.08
Sodium	1.3	1.4	3.3		8.8	3.3	7.5			1.58				6.38	1.67	3.02			2.8				3.59		2.05						3.99				7.24
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND				ND																														
Arsenic	ND				**0.041**																														
Barium	0.23				0.52																														
Beryllium					ND																														
Cadmium		<DL	<DL		ND	ND	ND			ND				ND	ND	ND			ND				ND		ND						ND				ND
Chromium (Total)	<DL				0.04																														
Copper	<DL				0.01																														
Lead	<DL	<DL	0.008		ND	ND	0.020			0.005				0.006	0.004	0.024			0.009				0.003		0.001						ND				0.001
Mercury	ND				ND																														
Nickel	**0.62**				0.05																														
Selenium	**0.021**	ND	**0.08**		ND	ND	ND			ND				0.01	ND	ND			ND				ND		ND						ND				ND
Silver	ND				ND																														
Thallium	ND				ND																														
Zinc	0.04				0.12																														
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	95	95	117			84.0	135.0			44.4				128	45.4				91.3						78.8						145				192
Biochemical Oxygen Demand	19.0																																		
Boron	ND				0.06																														
Chemical Oxygen Demand	21.0	15.0	12			5.0	ND			ND				43.9	17.5				23.4						ND						48.4				33.2
Chromium (Hexavalent)	<DL				ND																														
Chloride	<DL	6	7			ND	4.0			ND				10.1	ND				2.3						ND						3.92				10.3
Color (PCU units)	**55.0**																																		
Nitrate-Nitrite	<DL	<DL	<DL		ND	ND	ND			1.3				0.34	ND				ND						ND						ND				0.176
Nitrogen-Ammonia	1.0	<DL	<DL		1.6	0.6	**2.2**			0.4				1.01	ND				0.8						0.390						0.56				**4.12**
Phenols	**0.002**	ND	<DL			ND	ND			**0.010**				**0.019**	**0.013**				ND						**0.001**						**0.0138**				**0.0225**
Sulfate	11	16.3	19.9			21.0	12.0			12.0				8.7	8				6.0						6.1						12				8.77
Total Organic Carbon (TOC)	8	8	5		10.0	3.0	6.0			5.0				6.7	5.4				6.4						5.8						6.6				4.3
Total Dissolved Solids (TDS)	132.0	110	118			139	153.0			60.0				183	85				112						75						153				216
Total Hardness	89.5	60.7	96			51.0	104.0			54.0				187	99				85.6						71.6						113				149
Total Kjeldahl Nitrogen (TKN)	1.9				2.1																														
Turbidity (NTU units)	**55**	**243**	**182**			**32.0**	**94.0**			**76.0**				**100**	**500**				**70.0**						**45**						**33**				**9.7**
Cyanide	<DL																																		

MW-11B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							11	5	6	ND	16	4	14			5.5	5.5	3.4	ND	ND		2.3	ND	ND	1.7	ND	ND	ND	ND	ND	3.54	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	2.1	3.6	2.5	2	3	2.2	2.6	3.8	3.8	2.5	1.6	2.2	0.4			1.4	0.79	3.6	1.2	ND		1.1	ND	ND	1.4	0.67	ND	ND	ND	ND	1.99	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	0.32	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	`	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	ND	5.4	2.4	ND	2.7	0.67	0.59	6.4	5.1	2.1	0.46	0.81	ND			1.6	0.34	5.8	0.58	ND		0.71	ND	6.6	1.4	0.53	ND	ND	ND	ND	1.21	5.0	
Chloroethane	ND	0.74	ND	ND	1	0.95	0.8	0.94	0.86	0.64	0.36	0.45	0.44			0.5	0.27	1.1	ND	ND		0.5	ND	ND	0.34	ND	ND	ND	ND	ND	0.54	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene	ND	0.88	ND	ND	0.43	ND	ND	1.5	0.94	0.36	ND	ND	ND			0.29	ND	0.99	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	ND	1.7	ND	ND	1	ND	ND	2.2	1.5	0.71	ND	ND	ND			0.55	ND	1.6	ND	ND		0.25	ND	ND	0.26	ND	ND	ND	ND	ND	0.28	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	1.5	0.71	0.72	0.8	ND	0.84	0.5	0.65	ND			0.55	0.6	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	8.6	0.48	5.0	
1,1-Dichloroethane	2.1	6.2	4.4	1.5	5.4	1.2	2.9	5.9	5.3	3.1	0.97	1	1			4	1.5	16	0.41	ND		1.1	ND	15	0.57	0.67	ND	ND	ND	ND	3.50	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.58	0.5	ND	ND	ND	ND			ND	ND	0.64	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene	3.8	9.9	9.7	4.1	14	3.8	8.4	8.7	8.7	6.2	2.9	2.9	1.3			5.5	2.6	16	1.4	ND		2.8	ND	ND	2.1	1.8	ND	ND	6.4	ND	6.41	5.0	
trans-1,2-Dichloroethene	ND	0.55	ND	ND	0.54	ND	ND	0.51	0.45	0.35	ND	ND	ND			0.22	ND	0.83	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.17	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene	ND	1.2	ND	ND	0.6	ND	ND	1.9	0.95	0.44	ND	ND	ND			ND	ND	1.3	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	ND	0.5	ND	ND	0.48	0.43	0.42	0.62	0.53	0.4	0.35	0.48	ND			ND	ND	0.48	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.18	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND			ND	ND	0.77	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene	ND	1.2	ND	ND	0.42	ND	ND	1	0.5	ND	ND	ND	ND			ND	ND	0.41	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.11	10.0	**
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	0.46	0.24	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND			ND	0.43	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.81	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene	1.2	2.6	2.9	1.9	3.9	1.9	1.6	2.2	2.1	2.2	1.1	1.2	0.54			1.5	0.73	2.9	1.1	ND		1.2	ND	ND	1.1	0.78	ND	ND	ND	ND	1.82	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.06	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride	ND	1.5	3.1	1.9	4.6	1.3	1.4	3.6	3	1.9	0.37	0.7	0.3			0.98	0.66	6.8	ND	ND		0.9	ND	5.6	0.48	ND	ND	ND	ND	1.4	1.84	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	5.0	

MW-11B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum					3.2				ND			ND						ND				0.06	0	-	0.07	-	-	-	-	0.0369	0.72	
Calcium		40.8		21.5	46.2	23.2		57.6	55.5	34.4		26.9						70.2	15.6	45		18.5	14.9	55.6	13.6	-	18.8	-	-	19	26.03	
Iron		**28.1**		**16.3**	**23.6**	**9.6**		**26**	**22.4**	**13.1**		**12.6**						**23.8**	**4.5**	**18**		**9.5**	**11.5**	**20.2**	**8.52**	-	**8.73**	-	-	**5.9**	16.48	0.3
Magnesium		15.9		6.58	16.2	6.8		20.7	23.6	12.4		7.8						32.6	4.8	16		5.9	4.9	21.5	4.3	-	5.2	-	-	5.69	9.14	35.0
Manganese		**11.2**		**9.41**	**14.8**	**9.4**		**12.9**	**13.9**	**10.7**		**11.9**						**16.6**	**7.5**	**16**		**9.31**	**8.09**	**20**	**7.69**	-	**9.89**	-	-	**8.89**	8.83	0.3
Potassium		4.1		2.21	4.3	1.7		4.2	4.6	2.6		1.6						4.8	1.6	2.3		1.3	ND	3	1.1	-	ND	-	-	2.12	2.60	
Sodium		8.7		1.31	7.4	2.1		10.5	11.7	4.9		2.1						13.3	1.1	6.2		1.2	ND	7.5	0.8	-	1.3	-	-	3.11	3.99	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony					ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.003
Arsenic					0.02				0.02			0.02						ND				0.01	-	-	0.014	-	-	-	-	0.0069	0.01	0.025
Barium					0.37				0.4			0.18						0.48				0.206	-	-	0.149	-	-	-	-	0.158	0.18	1.0
Beryllium					ND				ND			ND						ND				0.0003	-	-	ND	-	-	-	-	ND	0.00	
Cadmium		ND		ND	ND	ND		ND	ND	ND		ND						ND	ND	ND		ND	ND	ND	ND	-	ND	-	-	ND	0.00	0.005
Chromium (Total)					0.01				ND			ND						ND				0.002	-	-	0.003	-	-	-	-	0.003	0.00	0.05
Copper					ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.2
Lead		0.003		ND	ND	ND		ND	ND	ND		ND						0.006	ND	0.001		0.001	ND	ND	ND	-	ND	-	-	0.0017	0.00	0.025
Mercury					ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.0007
Nickel					0.03				ND			ND						ND				0.013	-	-	0.013	-	-	-	-	0.0106	0.05	0.1
Selenium		ND		ND	ND	ND		ND	ND	ND		ND						ND				0.007	-	-	ND	-	-	-	-	ND	0.00	0.0
Silver					ND				ND			ND						ND				ND	-	-	0.001	-	-	-	-	ND	0.00	0.05
Thallium					ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.0005
Zinc					0.02				0.03			0.07						0.02				0.035	-	-	0.046	-	-	-	-	0.977	0.09	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity		205		90	175	67.1		229	218	150		62.5						374		210		-	-	299	-	-	80.8	-	-	179	112.2	
Biochemical Oxygen Demand					ND				4.9			4.5						12.2		11		-	-	-	-	-	4.1	-	-	9.6	4.4	
Boron					0.07				0.09			0.02						0.1				ND	-	-	-	-	-	-	-	0.0125	0.0	1.0
Chemical Oxygen Demand		28.8	298	18	54.8	18.5		29.8	28	23.4		16						19.4	23.8	32		12.6	-	27.6	-	-	22.8	-	58.8	62.9	29.3	
Chromium (Hexavalent)					ND				ND			ND						ND				ND	-	-	-	-	-	-	-	ND	0.0	0.05
Chloride		12.7		2.2	12.2	1.8		14.1	17.8	5.3		3.8				4.88		16.8	ND	9.48		ND	-	10.5	-	-	ND	-	-	6.4	4.8	250.0
Color (PCU units)					**60**				**80**			**60**						**200**				-	-	-	-	-	-	-	-	10	33.2	15.0
Nitrate-Nitrite		ND	0.04	ND	ND	ND		ND	ND	ND		ND						ND		ND		ND	-	ND	-	-	ND	-	ND	0.046	0.1	10.0
Nitrogen-Ammonia		**3.55**	0.8	0.5	1.1	0.56		**2.8**	**2.6**	1.6		0.71						**4**	0.36	**2.1**		0.369	-	1.87	-	-	0.482	-	0.78	**2.1**	1.1	2.0
Phenols		**0.0157**		ND	**0.028**	ND		**0.01**	**0.01**	ND		ND				ND		ND				ND	-	**0.0073**	-	-	ND	-	-	**0.0099**	0.0	0.001
Sulfate		5.9		5.8	4.6	5.9		4.1	3.2	5.1		5.2				5.15		6.7	4.1	ND		2.5	-	4.3	-	-	3.3	-	-	3.3	6.2	250.0
Total Organic Carbon (TOC)		6.1	17	4	62.9	5	4.1	6.2	6.8	4.6	10.8	3				3.4		9	1.4			7.1	-	8.9	-	-	4.6	-	5.7	3.1	6.9	
Total Dissolved Solids (TDS)		262		125	283	99		304	402	174		190						388		280		115	-	320	-	-	96	-	-	170	148.3	500.0
Total Hardness		167		81	182	85.9		229	236	137		99.3						310	58.6	180		70.6	57.1	227	-	-	68.5	-	-	88	104.2	
Total Kjeldahl Nitrogen (TKN)			14		4.3				3.9			1.1						2.2		2.09		0.85	-	-	-	-	-	-	1.1	3.8	2.2	
Turbidity (NTU units)		**24**		**61**	**49.1**	**89.4**		**36.9**	**56**	**21.3**		**28**		5	7	**267**	6	5	**36.1**	**29**	**12.8**	**16.1**	-	**19.5**	**27.6**	**35.7**	**11.3**	**41.2**	**15**	**6.2**	61.7	5.0
Cyanide					ND				ND			ND						ND				-	-	-	-	-	-	-	-	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

MW-12A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	0.21	2.14	1.59	5.0	2.0	4.0	2.0		19.0		0.8		4		0.8		2		2				1		2				2	1	2		1		4.76
Bromobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromoform	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
sec-Butylbenzene	0.17	0.10	0.23	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
tert-Butylbenzene	ND	0.29	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Chlorobenzene	0.14	0.51	0.29	ND	ND	ND	ND		0.8		ND		0.7		ND		ND		ND				ND		ND				ND	ND	ND		ND		2.05
Chloroethane	ND	ND	3.41	5.0	2.0	5.0	ND		ND		ND		2		ND		1		ND				ND		ND				ND	ND	ND		ND		ND
Chloroform	ND	1.34	ND	ND	ND	ND	ND		ND		ND		ND																						
Chloromethane	ND	ND	ND	ND	ND	ND	ND		8.0		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND		ND																										
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND		ND																										
Dibromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,2-Dichlorobenzene	ND	<DL	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		1				ND		ND				ND	ND	ND		ND		ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		4		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,4-Dichlorobenzene	4.99	7.20	2.59	5.0	4.0	3.0	1.0		2.0		0.7		ND		0.8		3		5				0.9		0.6				1	2	1		0.8		1.94
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND		2.0		ND		ND		ND		ND		1				ND		ND				ND	ND	ND		0.6		ND
1,1-Dichloroethane	2.13	1.85	1.75	2.0	ND	3.0	2.0		5.0		2.0		2		1		5		ND				2		2				2	2	2		1		1.69
1,2-Dichloroethane	0.33	0.31	0.12	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		3				ND		ND				ND	ND	ND		ND		ND
cis-1,2-Dichloroethene	<DL	9.28	3.51	4.0	3.0	4.0	1.0		16.0		0.9		2		0.7		8		6				2		3				6	4	4		3		4.91
trans-1,2-Dichloroethene	6.88	0.51	0.86	1.0	ND	ND	ND		1.0		ND		0.8		ND		0.6		ND				ND		0.5				ND	ND	ND		ND		ND
1,2-Dichloropropane	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
cis-1-3-Dichloropropene	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		3.0		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Ethylbenzene	0.27	0.90	0.24	2.0	ND	2.0	ND		1.0		ND		1		ND		0.6		0.5				ND		0.8				ND	ND	ND		ND		1.92
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Iodomethane																																			
Isopropylbenzene	<DL	4.52	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		1.04
p-Isopropyltoluene	ND	0.34	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		2				ND		ND				ND	ND	ND		ND		ND
Methylene chloride	<DL	0.12	ND	3.0	2.0	2.0	2.0		1.0		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
4-Methyl-2-pentanone																																			
Naphthalene	0.06	ND	ND	ND	ND	ND	ND		1.0		ND		ND		ND		ND		7				ND		ND				ND	ND	ND		ND		ND
n-Propylbenzene	ND	0.10	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Styrene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,1,2,2-Tetrachloroethane	ND	<DL	0.15	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Tetrachloroethene	0.35	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Toluene	ND	<DL	ND	ND	ND	1.0	ND		0.8		ND		1*		ND		0.9		ND				3		ND				ND	ND	ND		ND		1.73
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,2,4-Trichlorobenzene	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
Trichloroethene	0.81	<DL	<DL	ND	1.0	ND	ND		1.0		ND		ND		ND		0.6		ND				ND		ND				ND	ND	ND		ND		1.2
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,2,3-Trichloropropane	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		ND
1,2,4-Trimethylbenzene	<DL	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		33				ND		ND				ND	ND	ND		ND		ND
1,3,5-Trimethylbenzene	0.09	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		6				ND		ND				ND	ND	ND		ND		ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	0.80	ND	ND	ND	ND		23.0		ND		1		ND		3		4				2		3				2	3	3		2		ND
o-Xylene	0.16	0.32	0.56		ND										ND		ND		ND				ND		ND				ND	ND	ND		ND		1.25
p-Xylene & m-Xylene				ND	ND				1.1		ND		ND		ND		ND		ND				ND		ND				ND	ND	ND		ND		2.56

MW-12A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	0.15				0.3				0.09				1.39				1.84																		
Calcium	78.3	55.9	70.3	67.5	88.9	56.3	71.4	85.2	113	97.3	80.3		77	109	87.5	92.6	97.2	103	81.5	92		112	104		96.0				107		122		96.5		104
Iron	49.4	34.2	9.2	21.8	37.4	16.0	9.0	13.3	24.3	24.5	7.99		13.4	26.1	4.83	14.8	28.1	25.9	11.5	16.1		55.7	10.9		12.2				47.4		27		25.9		37.8
Magnesium	7.9	7	9.5	10.4	11.6	8.0	8.3	12.2	13.3	11.8	10.3		10.7	11.6	10.8	11.8	11.4	10.5	8.39	12.4		10.3	13.7		11.6				10.9		11.8		10.7		11.9
Manganese	11.3	10.9	8.87	8.78	9.62	7.43	6.23	7.64	9.53	7.79	5.38		6.51	9.18	5.39	7.84	7.71	7.88	7.01	7.39		8.34	6.58		7.58				7.32		8.46		7.24		9.31
Potassium	2.6	2.9	3.3	3	3.5	2.8	2.8	3.0	8.52	3.22	1.6		2.38	3.25	2.51	2.43	2.88	2.7	2.2	2.54		3.61	2.07		3.27				3.49		3.33		2.27		3.22
Sodium	11.2	6.9	12.7	18.1	17.9	15.2	12.4	18.7	19.2	17.0	15.4		17.9	10	13.3	14	0.82	10.4	8.09	14.1		7.86	12.6		10.9				5.82		6.27		6.4		6.88
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND				ND				0.05				ND				0.04																		
Arsenic	<DL				0.050				0.031				0.042				0.038																		
Barium	1.44	1.59	1.37	1.53	1.39	1.28	1.12	1.58	1.63	1.41	1.4		1.47	1.45	1.22	1.52	1.58	1.23	1.08	1.57		1.82	1.72		1.31				1.49		1.6		1.57		1.75
Beryllium					ND				ND				ND				ND																		
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND				ND		ND		ND		ND
Chromium (Total)	<DL				0.01				ND				0.02				0.02																		
Copper	ND				ND				ND				ND				0.01																		
Lead	ND	ND	ND	ND	ND	ND	0.010	0.007	ND	0.001	0.004		0.019	0.003	0.002	0.003	0.011	ND	0.020	0.003		ND	ND		0.001				0.002		ND		0		ND
Mercury	ND				ND				ND				ND				ND																		
Nickel	0.05				ND				ND				0.04				0.64																		
Selenium	0.014	<DL	0.01	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND				ND		ND		ND		ND
Silver	0.08	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		0.007	ND		ND				ND		ND		ND		ND
Thallium	0.1				ND				ND				ND				ND																		
Zinc	<DL				0.05				0.06				0.06				0.08																		
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	309	259	278	299	420	326	449	236	366	316	297			357	332	344		424	321			384	322		355				423		400		355		353
Biochemical Oxygen Demand	55.0				4				15.0																										
Boron	ND				0.12				0.02				0.08				ND																		
Chemical Oxygen Demand	29.1	20	15	ND	ND	16.0	ND	31.0	19.8	77.2	19.1		13.2	33.8	18.5	ND		12.4	12			51.8	ND		29.4				40.6		43.4				37.4
Chromium (Hexavalent)	<DL				ND				ND								ND																		
Chloride	4.1	7	10.8	5	3	7.0	ND	13.0	6.13	3.9	3.76			2.98	2.97	136		ND	ND			4.66	3.70		1.84				2.42		ND				8.42
Color (PCU units)	55.0				ND				125																										
Nitrate-Nitrite	0.1	20.1	<DL	ND	ND	ND	ND	0.2	1.63	1.8	ND			ND	ND	ND		ND	ND			ND	ND		ND				ND		ND				ND
Nitrogen-Ammonia	2.9	<DL	0.9	ND	3.4	1.3	2.6	7.0	2.6	2.5	3.07		2.79	1.8	2.4	2.54		2.19	7.02			3.96	1.26		1.51				0.715		ND				4.47
Phenols	0.003	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND		0.008	0.005	0.009	ND		0.070	ND			0.025	0.007		0.013				0.001		0.01				0.0203
Sulfate	5.5	6.7	2.6	ND	ND	12.0	ND	ND	16.0	18.0	ND				ND	ND		ND	ND			ND	ND		ND				ND		ND		11		ND
Total Organic Carbon (TOC)	11.3	8	8.5	4	5	6.0	4.0	16.0	6.5	14.6	3.4			5.5	6.3	4.3		4.3	6.2			7.8	6.6		4.9				9.9		13				8.8
Total Dissolved Solids (TDS)	312	598	316	286	448	314	335	262	375	337	293			356	218	353		377	311			360	360		383				406		410		380		405
Total Hardness	242	168	215	211	270	174	212	263	336	267	316			510	374	328		300	238			322	316		287				312		353		285		309
Total Kjeldahl Nitrogen (TKN)	3.2				4.1				2.14				4.2																						
Turbidity (NTU units)	36	900	270	340	231	17.0	45	182	110	40	140			110	15	21		78	78			200	90		30				60		32				46
Cyanide	<DL				ND				ND																										

MW-12A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							18	19	8.4	12	13	5.9	29	21	11	20		6.4	32	19		6.4	-	ND	11	-	ND	-	-	12.8	11.13	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Benzene		2.1	5	2.6	7	4.6	7.1	6.3	13	6.3	4	7	4.1	1.6	1.5	4.5		7.7	7.8	6.2		6.3	-	7.1	5.1	-	6.6	-	-	7.2	4.04	1.0	
Bromobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Bromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	50.0	
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
2-Butanone							ND	ND	1.2	ND	1.4	ND	3.6	1.2	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.34	50.0	
n-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
sec-Butylbenzene		ND	ND	ND	0.37	ND	ND	ND	0.54	ND	ND	0.28	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.04	5.0	
tert-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.01	5.0	
Carbon disulfide							ND	ND	ND	ND	0.49	ND	0.28	0.66	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.07	60.0	
Carbon tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Chlorobenzene		0.57	1.7	0.8	2.5	1.4	3.8	4	13	3.9	2.5	6.4	3	1.1	1.1	2.8		7.4	6.7	5.1		5.6	-	6.2	4.3	-	8.7	-	-	11.2	2.30	5.0	
Chloroethane		0.54	ND	ND	2.3	1.2	1	0.94	1.1	0.66	0.48	0.66	0.65	0.61	ND	0.53		0.55	0.44	ND		0.74	-	ND	ND	-	ND	-	-	ND	0.66	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.04	7.0	
Chloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.17	5.0	
2-Chlorotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
4-Chlorotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Dibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	0.57	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		0.29	-	ND	0.21	-	ND	-	-	ND	0.04	3.0	
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.09	3.0	
1,4-Dichlorobenzene		0.77	1.5	ND	2	0.9	1.9	2.1	5.1	1.8	2.9	3.3	4.4	3.1	0.88	2.3		2.4	2.9	ND		2.3	-	ND	ND	-	ND	-	-	ND	1.87	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Dichlorodifluoromethane		ND	ND	ND	1.2	1	1	1.1	ND	0.98	0.98	1.2	ND	0.86	ND	0.82		ND	ND	ND		ND	-	ND	ND	-	-	-	-	18.6	0.67	5.0	
1,1-Dichloroethane		ND	0.8	0.9	0.86	1.1	1.4	1.2	0.98	1.1	2.6	0.95	1.8	0.47	ND	0.84		1	0.68	ND		0.8	-	ND	0.52	-	ND	-	-	ND	1.24	5.0	
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.02	0.6	
1,1-Dichloroethene		1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.09	5.0	
cis-1,2-Dichloroethene		3.1	5.2	3.3	7.2	4.3	5	4.6	5.4	4.5	3.1	4.4	3.6	1.9	1	4		4.3	3.7	ND		4	-	ND	3.2	-	ND	-	-	ND	3.43	5.0	
trans-1,2-Dichloroethene		ND	ND	ND	0.46	0.46	0.59	0.44	0.43	0.54	0.92	0.37	0.7	ND	ND	0.33		ND	ND	ND		0.4	-	ND	ND	-	ND	-	-	ND	0.38	5.0	
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	1.0	
1,3-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
2,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
1,1-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	0.4	*
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.06	0.4	*
Ethylbenzene		ND	ND	ND	0.57	ND	1.2	3	10	1.3	0.67	4.4	0.28	ND	ND	ND		5.1	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.80	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	50.0	
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Isopropylbenzene		ND	ND	ND	1.3	0.47	0.79	0.48	1.6	0.61	0.51	0.76	0.42	ND	ND	0.54		0.82	0.86	ND		ND	-	ND	ND	-	-	-	-	-	0.31	5.0	
p-Isopropyltoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.05	5.0	
Methylene chloride		ND	ND	ND	ND	ND	0.37	0.28	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.23	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00		
Naphthalene		ND	ND	ND	ND	ND	ND	0.41	1.6	ND	ND	0.48	ND	ND	ND	ND		1.1	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.25	10.0	**
n-Propylbenzene		ND	ND	ND	ND	ND	ND	ND	1.1	0.29	ND	0.49	ND	ND	ND	ND		0.59	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.05	5.0	
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
Tetrachloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.01	5.0	
Toluene		ND	ND	ND	0.74	ND	2.2	0.34	1.3	ND	0.46	0.47	0.25	ND	ND	ND		0.48	ND	ND		0.38	-	ND	0.4	-	ND	-	-	ND	0.31	5.0	
1,2,3-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene		ND	ND	ND	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	1.0	
Trichloroethene		ND	0.9	0.5	0.93	0.64	0.7	0.61	ND	0.67	ND	0.69	0.32	0.36	ND	0.37		0.61	0.5	ND		0.51	-	ND	0.26	-	ND	-	-	ND	0.28	5.0	
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	5.0	
1,2,3-Trichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00	0.04	
1,2,4-Trimethylbenzene		ND	ND	ND	ND	ND	ND	0.42	0.82	ND	ND	0.67	ND	ND	ND	ND		3.6	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.82	5.0	
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.45	ND	ND		ND	-	ND	ND	-	-	-	-	-	0.14	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.00		
Vinyl chloride		0.98	3.9	3.1	3.9	2.9	2.5	3.2	2.6	2.3	1.9	2.7	2.5	0.78	0.21	1.5		2.5	1.5	ND		3.1	-	ND	1.5	-	ND	-	-	2.9	1.98	2.0	
o-Xylene		ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	0.41	ND	ND	ND	ND		0.58	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.09	5.0	
p-Xylene & m-Xylene		ND	ND	ND	ND	ND	ND	1.7	ND	0.22	0.17	2.6	ND	ND	ND	ND		6.9	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	0.36	5.0	

MW-12A
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum			0.11		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	0.0161	0.19	
Calcium		86.4	70.4	114	108	94.8	88	114	91	89.2		106						109	72.9			80.1	-	90.3	102	-	77.9	-	-	112	84.08	
Iron		26.3	30.9	21.5	45.6	30.9	33.5	33.9	40.6	33.8		33.3						30.4	29.7			30.9	-	32	29.8	-	33.8	-	-	42.4	24.77	0.3
Magnesium		10.7	9.32	13.5	11.9	12.4	11.7	14.1	23.6	12.6		15.3						17.4	11.3			13.3	-	14.7	14.6	-	12.7	-	-	14.3	10.90	35.0
Manganese		8.21	9.49	8.31	9.5	10.6	1.1	10.3	13.9	12.9		15.3						17	12			17.1	-	16.1	11.5	-	17.4	-	-	12.4	8.73	0.3
Potassium		2.54	3.53	2.18	4.3	2.6	3.5	2.9	4.6	3.5		4.1						3.8	4.5			3.8	-	3.8	3.9	-	4.7	-	-	6.74	3.07	
Sodium		5.7	5.85	7.68	6.2	6.8	7	8.1	11.7	7.6		8.8						9.5	7.2			7.8	-	6.8	7.2	-	6.5	-	-	10.4	9.34	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.003
Arsenic			ND		0.06		0.07		0.06			0.03						0.047				0.042	-	-	0.068	-	-	-	-	0.0557	0.03	0.025
Barium		1.52	1.92		2	1.8	1.9	1.7	2.2			1.9						1.9				1.77	-	-	1.59	-	-	-	-	1.78	1.37	1.0
Beryllium			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND						ND	ND			ND	-	ND	ND	-	ND	-	-	0.0006	0.00	0.005
Chromium (Total)			ND	ND	ND		ND		ND			ND						ND				0.003	-	-	0.003	-	-	-	-	0.0216	0.00	0.05
Copper			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	0.0041	0.00	0.2
Lead		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND						ND	ND			0.001	-	ND	ND	-	ND	-	-	0.003	0.00	0.025
Mercury			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.0007
Nickel			ND		ND		ND		ND			ND						ND				0.007	-	-	0.003	-	-	-	-	0.0055	0.04	0.1
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND						ND				0.009	-	-	0.004	-	-	-	-	ND	0.00	0.0
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND						ND				0.003	-	-	0.003	-	-	-	-	ND	0.00	0.05
Thallium			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.00	0.0005
Zinc			ND		ND		ND		ND			0.2						0.012				0.004	-	-	0.01	-	-	-	-	0.024	0.02	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity		319	410	350	42.9	211	430	407	242	206		191				185		467	252	320		349	-	377	-	-	315	-	-	380	290.8	
Biochemical Oxygen Demand			11		15.9		4.7		8.9			4.5						8.6		16		-	-	-	-	-	7.9	-	-	9.6	8.5	
Boron			ND		0.09		0.09		0.12			0.1						0.11				0.11	-	-	0.07	-	-	-	-	0.118	0.1	1.0
Chemical Oxygen Demand		26.5	38	34	61	31.6	55.9	48.6	61.3	46.7		33.6						36.4	50.6	41		22.1	-	38.8	36.2	-	52.9	-	-	75.4	28.5	
Chromium (Hexavalent)			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	0.0	0.05
Chloride		4.41	5.1	2.5	3	2.2	8.2	6.6	8.7	5.5		6.6				3.48		8.2	3.8	5.97		4.9	-	4.4	3.4	-	4.4	-	-	10.5	7.1	250.0
Color (PCU units)			20		140		140		200			120						200				-	-	-	-	-	-	-	-	25	56.9	15.0
Nitrate-Nitrite		ND	ND	ND	ND	ND	0.07	ND	ND	ND		ND						ND	ND	ND		ND	-	ND	ND	-	ND	-	-	0.065	0.5	10.0
Nitrogen-Ammonia		2.54	4.1	2	1.3	1.4	4.3	1.8	4.5	3.2		3.8						5.9	7.7	5.26		5.57	-	4.45	5.8	-	6.1	-	-	7.0	2.9	2.0
Phenols		0.004	ND	ND	0.02	ND	ND	ND	ND	0.01		ND				ND		ND	0.014	ND		0.015	-	-	-	-	0.036	-	-	0.0418	0.0	0.001
Sulfate		5.8	ND	2.9	ND	4.4	ND	3.1	ND	4.2		ND				4.87		3.4	ND	ND		2.5	-	4.7	ND	-	2	-	-	2.9	2.5	250.0
Total Organic Carbon (TOC)		3.4	7.8	8.2	29.5	6.1	12.1	6.3	11.7	8.8	35.4	8.8	23.2		13	6.1		8.8	9.5	13		11.7	-	-	16.2	-	12.6	-	-	7.5	8.7	
Total Dissolved Solids (TDS)		383	298	402	330	345	413	446	484	378		390						449	344	440		395	-	375	392	-	349	-	-	426	338.5	500.0
Total Hardness		260	214	341	319	288	268	343	277	274		328						345	228			255	-	286	314	-	259	-	-	340	262.4	
Total Kjeldahl Nitrogen (TKN)			8.4		5		6.3		6.5			5.2						2.4		3.52		7.11	-	-	6.91	-	-	-	-	8.2	3.5	
Turbidity (NTU units)		53	38	48	56.4	22	30.2	45.2	75	64.4		13.9			19	150	12	4	29.5	79.7	54.4	31.5	-	36.3	22	66.8	26.6	-	-	12.4	82.9	5.0
Cyanide			ND		ND		ND		ND			ND						ND				-	-	-	-	-	-	-	-	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

MW-12B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	11.6	19.6	23.8	28.0	5.0	14.0	18.0		64.0		13.0		25		18		16		20		20		22	15	11	18	20	16	19	13	19	11	13		14.8
Bromobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromoform	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2-Butanone																																			
n-Butylbenzene	ND	ND	1.98	ND	ND	ND	ND		ND		ND		ND		0.7		ND		ND		ND		ND	ND	ND	ND	ND	1	0.8	ND	1	ND	0.5		ND
sec-Butylbenzene	8.4	20.9	16.2	ND	3.0	ND	ND		0.6		ND		ND		ND		ND		ND		0.6		0.8	8	ND	0.6	0.8	0.7	1	ND	1	ND	0.6		ND
tert-Butylbenzene	ND	34.1	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Chlorobenzene	6.8	11.7	10.0	11.0	2.0	ND	10.0		12.0		6.0		12		9		10		11		12		13	11	7	12	12	12	17	8	18	9	10		17.2
Chloroethane	ND	ND	ND	2.0	2.0	9.0	3.0		2.0		3.0		4		4		2		ND		2		4	1	4	3	ND	2	2	ND	2	ND	ND		ND
Chloroform	ND	1.33	ND	ND	ND	ND	ND		ND		ND		ND																						
Chloromethane	ND	ND	0.17	ND	ND	ND	ND		13.0		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
4-Chlorotoluene	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	6.0	ND		ND																										
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND		ND																										
Dibromomethane	ND	ND	ND	ND	ND	ND	ND		ND		2.0		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2-Dichlorobenzene	4.19	5.52	7.20	4.0	ND	ND	2.0		3.0		ND		3		2		1		ND		2		1	1	0.6	1	0.9	1	1	ND	1	ND	0.7		ND
1,3-Dichlorobenzene	ND	0.21	ND	ND	ND	ND	ND		ND		3.0		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,4-Dichlorobenzene	1.23	8.28	ND	ND	1.0	4.0	7.0		6.0		ND		4		4		4		ND		4		6	4	3	5	4	4	6	2	8	3	4		8.12
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND		5.0		0.7		ND		ND		ND		1		ND		2 J	ND	0.7	0.9	0.8	ND	ND	ND	0.9	ND	0.9		ND
1,1-Dichloroethane	8.09	8.10	8.29	12.0	7.0	13.0	6.0		8.0		7.0		11		6		7		8		7		6	6	6	9	7	10	6	7	5	8	7		4.83
1,2-Dichloroethane	1.05	1.02	1.13	2.0	ND	ND	ND		ND		ND		ND		ND		ND		ND		0.7		ND	ND	0.6	0.7	0.7	0.9	ND	ND	0.6	1	ND		ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
cis-1,2-Dichloroethene	ND	19.70	4.02	3.0	1.0	52.0	2.0		10.0		ND		4		4		3		5		3		4	6	2	12	3	15	3	3	2	6	4		ND
trans-1,2-Dichloroethene	18.5	0.89	0.67	ND	ND	ND	ND		1.0		ND		0.5		0.8		ND		ND		ND		0.7	ND	0.7	0.8	0.6	0.8	0.6	ND	0.5	ND	ND		ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,3-Dichloropropane	ND	ND	<DL	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,1-Dichloropropene	ND	ND	1.01	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Ethylbenzene	12.2	28.2	21.4	26.0	4.0	13.0	24.0		34.0		15.0		26		26		23		39		27		43	16	18	31	36	19	34	13	43	9	17		31.4
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Iodomethane																																			
Isopropylbenzene	1.32	2.68	3.07	2.0	ND	ND	2.0		2.0		1.0		2		2		1		3		2		3	1	1	2	2	2	2	0.6	3	1	2		3.21
p-Isopropyltoluene	2.31	3.530	2.44	2.0	ND	3.0	2.0		3.0		ND		4		2		2		ND		2		0.8	1	0.8	1	2	1	2	ND	ND	0.8	1		ND
Methylene chloride	2.62	ND	ND	1.0	ND	5.0	ND		1.0		0.6		0.6		0.5		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND		ND
4-Methyl-2-pentanone																																			
Naphthalene	6.13	5.53	5.47	7.0	ND	ND	5.0		7.0		3.0		5		6		4		ND		6 B		6 B	4	3	5 B	5	4	5	ND	6	2 B	4		10.6
n-Propylbenzene	1.51	10.9	9.73	2.0	ND	ND	2.0		2.0		1.0		2		2		1		2		2		3	1	1	2	3	2	3	0.5	4	1	2		3.79
Styrene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,1,2,2-Tetrachloroethane	ND	0.32	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Toluene	32.9	1.64	ND	2.0	ND	46.0	21.0		8.0		5.0		9		6		6		2		1		9	0.8	0.7	1	1	0.8	4	0.6	2	0.5	0.9		12.9
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		0.6		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND		ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Trichloroethene	1.07	0.98	0.20	ND	ND	ND	ND		1.0		0.6		0.6		0.6		ND		0.5		ND		ND	1	ND	2	ND	2	ND	ND	ND	1	ND		ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		8.0		2.0		ND		ND		0.6		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2,3-Trichloropropane	ND	ND	3.90	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
1,2,4-Trimethylbenzene	18.1	0.50	7.22	29.0	4.0	4.0	27.0		38.0		3.0		28		28		20		ND		29		34	15	15	24	27	11	27	0.8	31	4	12		35.1
1,3,5-Trimethylbenzene	3.48	ND	8.27	6.0	ND	ND	8.0		7.0		17.0		ND		6		5		ND		5		7	1	2	3	3	2	7	0.8	3	3	1		8.21
Vinyl acetate																																			
Vinyl chloride	0.42	ND	ND	ND	ND	41.0	ND		15.0		ND		ND		ND		2		3		2		5	3	3	4	3	7	3	2	3	4	4		ND
o-Xylene	16.5	32.5	22.6		ND				ND		ND		ND		19		13		17		7		18	5	5	6	7	2	8	2	10	ND	2		10.8
p-Xylene & m-Xylene			18.1	69.0	9.0				98.0		42.0		70		49		44		53		33		65	14	16	24	18	7	37	9	54	4	8		41

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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	1.7				0.1				0.61				5.07				6.38				2.34			0.248		0.2		ND		ND		ND			
Calcium	96.6	138	167	123	98.4	117	12.3	123	109	95.5	89.2	109	108	137	90.1	82.1	49.2	89.8	99.6	103	120	123	117	95.6	110	121	107	129	104	112	116	114	109		104
Iron	45.7	63.8	57.6	52.6	23.9	28.6	57.3	62.8	63.5	57.2	53.9	54.9	47.8	65	13.8	35.9	11.5	19.3	40.2	44.2	48.6	63.7	55.5	26.2	50.6	40.9	38.9	25.7	43.2	23.1	50.4	14.4	30.5		53.7
Magnesium	8.7	20.4	20.5	26.3	21.9	22.7	25.2	28.2	22.7	19.8	21.6	24.1	24.2	26.5	17.2	16.9	11.8	16	18.8	23.0	25.2	24.4	22.8	19.5	22.2	23.3	20.3	23.3	21.3	21.7	23.1	22.4	21		21.8
Manganese	19	23.1	23.9	13.1	16.4	15.6	23.9	22.1	19.5	16.4	10.7	16.1	16	20.9	9.03	12.2	2.72	9.34	13.7	12.0	15.4	20.2	17.3	11.3	15.4	14.7	12.9	12.8	15.9	11.2	16.1	12.3	12.2		16
Potassium	8.9	12.1	11.8	11	7.6	6.0	11.0	12.7	12.9	11.3	6.87	9.29	9.61	12.4	4.87	9.46	3.14	6.76	7.99	12.4	11.7	12.4	9.54	12.8	10.1	11.2	8.91	8.66	10	8.18	10.7	10	8.78		11.1
Sodium	18.9	27.7	30.4	34.9	27.3	25.2	34.0	38.0	32.2	26.0	19.3	27.9	30.8	33.8	22.8	22.8	31	20.6	21.8	27.6	31.9	30.8	24.7	31.0	24.3	27.8	20.9	23.8	24.6	23.4	23.2	21.2	19.3		24.1
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND				ND				0.05				ND				ND				ND			0.055		ND		ND		ND		ND			
Arsenic	ND				0.032				0.010				0.020				0.019				0.02			0.010		0.02		0.03		0.01		0.01			
Barium	0.53				0.36				0.8				0.66				0.15				0.73			0.581		0.73		0.58		0.43		0.5			
Beryllium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND			
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND		ND
Chromium (Total)	<DL				0.01				0.02				0.03				0.04				0.04			0.028		0.02		ND		0.02		0.02			
Copper	ND				ND				ND				0.01				0.02				0.02			ND		ND		ND		ND		ND			
Lead	<DL	ND	ND	ND	ND	ND	0.070	0.009	0.003	0.004	0.023	0.012	0.009	0.005	ND	0.005	0.017	0.002	0.001	0.003	0.01	ND	0	0.011	0.005	0	0	0	0	0	ND	0.01	0		0
Mercury	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND			
Nickel	0.64				ND				0.05				0.09				0.04				0.1			0.058		0.08		0.06		0.06		0.05			
Selenium	0.04	0.03	0.05	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Silver	ND				ND				ND				0.02				ND				0.01			ND		ND		ND		ND		ND			
Thallium	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND			
Zinc	0.03				0.01				0.02				0.06				0.06				0.08			0.095		0.05		0.07		0.03		ND			
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	411	461	523	522	468	522	653	562	489	507	394	446	523	656	475	386	656	253	516	587	583	530	470		499	412	543		587	571	521	500	487		603
Biochemical Oxygen Demand	45				6.0	ND			24.0				11				13				ND			29		26				10					
Boron	0.11				0.21	ND			0.25				0.02				ND				0.29			0.249		0.28		0.24		0.23		0.18			
Chemical Oxygen Demand	100	20	98	90	50	259	158.0	106	85.1	107	82.4	84.7	89.8	228	92.1	50.9	131	84	69.3	127	325	139	88.3		27.4	85.5	44.8		93.9	77.2	94	32.1	71.5		76.7
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			0.010		ND		ND		0					
Chloride	42.5	46	64	7	71	36.0	70.0	75.0	32.4	37.4	29.8	56.3	72.6	61.6	27	15.5	69.9	38.6	38	55.2	79.1	43.8	29.2		30.9	35.6	29.8		36.4	34.9	32.8	40.1	27		42
Color (PCU units)	51				ND				250				400				175				600					120				450					
Nitrate-Nitrite	<DL	<DL	<DL	ND	ND	ND	ND	ND	1.99	1.2	0.23	ND	ND	0.18	ND	ND	ND	0.1	ND	0.110	ND	ND	ND		ND	ND	ND		ND	ND	ND	1.28	ND		ND
Nitrogen-Ammonia	16.3	8.7	7.5	0.5	17.5	2.8	20.8	38.0	20.5	19.7	11.8	12.6	19.1	22.9	27.1	6.31	2.6	20.8	20.3	13.8	24	13.4	8.66		11.2	13.7	15		20.4	16.9	18.1		12.5		25.3
Phenols	0.005	0.084	ND	0.010	0.020	0.100	ND	ND	0.096	0.100	0.049	0.087	0.147	0.011	0.060	0.032	0.235	0.046	0.063	0.118	0.25	0.145	0.11		0.06	0.08	0.07		0.13	0.07	0.12		0.06		0.11
Sulfate	14	1.8	16.8	ND	ND	ND	ND	ND	20.0	8.4	ND	ND	11		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	6.4		11	ND	ND	ND	18		ND
Total Organic Carbon (TOC)	30.4	29	36	27	24	172	35.0	58.0	21.8	29.0	19.2	22.9	30	44.2	30.8	13	372	25.6	24.3	24.3	50.9	32.7	25.6		19	19	18		28	44	33	17	19		27.2
Total Dissolved Solids (TDS)	436	580	546	685	584	454	639.0	588	474	556	430	602	380	688	426	367	658	530	461	568	670	565	470		544	438	468		543	480	558	503	514		509
Total Hardness	277	427	721	415	336	386	134.0	422	376	404	361	386	521	595	554	320	589	290	326	352	446	408	386		366	398	351		347	301	385	377	359		349
Total Kjeldahl Nitrogen (TKN)	11.2				15.8				21.9				22				30				19.5			24.3		12.8				17.5					
Turbidity (NTU units)	44	1440	370	570	179	62.0	173.0	240	80.0	58.0	120	130	200	140	64	40	155	88	98	150	190	100	125		75	43	48		23	600	51		48		140
Cyanide	<DL				ND				ND				ND				ND				ND			ND		ND				ND					

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OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							1.9	2.2	4.5	7.1	12	3	4.5	3.3	ND	ND	1.6	2.6	4.2	ND	ND	3.3	ND	ND	2.5	ND	ND	ND	ND	ND	2.77	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	13	13	17.9	12.5	14	9.2	13	12	15	12	10	11	9.6	5.5	5.4	8.6	6.8	8.8	9.7	6.6	7.4	7.0	8.3	8.5	5.8	3.7	7.0	5.5	6.0	6.7	14.48	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	1.4	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	50.0	
n-Butylbenzene	ND	ND	ND	ND	0.52	ND	ND	0.36	0.48	0.44	ND	0.48	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.17	5.0	
sec-Butylbenzene	ND	0.61	0.7	0.5	0.62	0.38	0.47	0.58	0.78	0.68	0.25	0.68	0.32	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	1.37	5.0	
tert-Butylbenzene	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.69	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.63	ND	ND	ND	ND	ND	0.05	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	11	13	17.1	11.2	14	7.7	13	12	18	15	8.3	15	11	6.7	5.0	10	6.1	12	13	8.7	8.8	9.9	13	10	7.6	3.6	10	11	6.9	9.7	10.72	5.0	
Chloroethane	1.8	2.3	ND	ND	2.9	2.6	2.5	2.1	2	1.2	1.5	1.6	1.5	0.9	1.7	1.1	1.1	0.93	0.85	ND	ND	1.2	ND	ND	0.99	1.6	ND	ND	ND	ND	1.60	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	0.31	ND	0.21	ND	0.63	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	0.29	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	
1,2-Dichlorobenzene	0.65	0.67	ND	0.6	0.79	0.37	0.58	0.6	0.8	0.61	0.35	0.63	0.48	0.3	0.24	0.39	0.23	ND	ND	ND	ND	0.45	ND	ND	0.3	ND	ND	ND	ND	ND	1.00	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.07	3.0	
1,4-Dichlorobenzene	3.6	5.1	6.3	3.5	4.5	2.9	3.8	4.1	5.7	5.5	2.3	5.1	3.6	2.4	1.7	3.2	1.7	4.1	4.2	ND	ND	3.2	ND	ND	2.3	0.96	ND	ND	ND	ND	3.52	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	0.5	ND	ND	ND	1.2	1.2	1	1.4	ND	0.96	1.3	ND	ND	0.81	0.76	1.3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	22.7	0.44	5.0	
1,1-Dichloroethane	9.1	4.5	5.1	6.7	5.6	5	6	5.2	4.7	4.1	7.9	4.4	7.0	5.6	11	3.6	7.9	3.6	3.5	ND	6.8	4.1	ND	ND	4.7	9.1	ND	ND	8.1	ND	6.36	5.0	
1,2-Dichloroethane	1.5	ND	ND	ND	ND	0.38	ND	ND	ND	ND	1.2	ND	0.87	0.52	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND	ND	ND	ND	0.31	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene	3.3	2.3	2.4	4.2	3	3.2	4	4.6	3.5	2.6	2.5	3.2	1.1	0.82	2.3	1.9	1.3	2.1	1.7	ND	ND	1.9	ND	ND	1.8	2.1	ND	ND	ND	ND	4.40	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	0.5	0.48	0.48	0.65	0.52	0.51	0.48	0.46	0.41	0.36	0.26	0.34	0.41	0.29	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	0.66	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene	6.3	21	ND	15.1	16	9.5	10	14	18	15	0.38	16	1.8	ND	0.51	6.1	ND	8.7	2.1	ND	ND	2.4	ND	ND	0.57	ND	ND	ND	ND	ND	15.54	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	1	1.9	2.3	1.5	1.8	1.1	1.3	1.5	2.1	2	0.77	1.8	0.98	0.58	0.46	1.7	0.36	1.6	1.5	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	1.43	5.0	
p-Isopropyltoluene	0.57	ND	1.4	0.7	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.82	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	0.83	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene	3.5	6.3	3.5	ND	5	3.3	3.5	3.9	5.1	5.8	1.6	5.3	2.9	1.5	1.1	1.7	0.53	4.3	4	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	3.11	10.0	**
n-Propylbenzene	1.5	2.2	2.5	1.7	2	1.2	1.3	1.7	2.2	2.2	0.71	2	0.92	0.55	0.39	1.8	0.26	1.7	1.2	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	1.81	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Toluene	ND	2	1	0.7	0.72	0.46	1.1	0.82	1.6	0.68	0.7	1.1	0.39	0.31	0.74	0.35	0.23	0.64	0.42	ND	ND	0.56	ND	ND	0.3	0.31	ND	ND	ND	ND	3.72	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.03	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene	1.2	ND	ND	1.2	0.54	0.53	0.73	0.86	0.6	0.84	0.74	0.64	0.32	ND	0.37	0.77	0.3	ND	ND	ND	ND	0.42	ND	ND	0.29	0.34	ND	ND	ND	ND	0.43	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	0.04	
1,2,4-Trimethylbenzene	1.7	19	13.2	5.3	7.3	3.7	5.1	4.5	10	5.1	ND	3.7	0.85	ND	ND	ND	ND	4.4	2.5	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	10.94	5.0	
1,3,5-Trimethylbenzene	ND	3.4	1.3	1.1	0.38	0.64	1.1	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	0.45	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	2.30	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride	1.2	0.66	2.4	5.4	2.9	3	3.5	5.6	2.6	3.1	2.2	4.6	1.3	0.98	1.4	4.0	1.5	2.9	1.1	ND	ND	2.9	ND	ND	0.95	1.4	ND	ND	ND	3.0	3.11	2.0	
o-Xylene	0.77	4.2	3.3	1.5	2.2	0.98	1.2	2	2.4	1.7	ND	2	0.45	ND	0.21	0.68	ND	1.5	0.62	ND	ND	0.4	ND	ND	0.3	ND	ND	ND	ND	ND	4.79	5.0	
p-Xylene & m-Xylene	3.4	16	17	6.3	8.8	3.6	9	5.5	18	6.3	0.44	5.8	1.8	0.69	0.81	3.7	ND	6.3	4	ND	ND	2.6	ND	ND	2.5	ND	ND	ND	ND	ND	19.25	5.0	

MW-12B
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum	0.1		0.18		0.21		ND		ND		ND	ND		ND			ND	ND			0.053	0.001	-	-	ND	ND	-	ND	ND	0.0157	0.64	
Calcium	126	95.7	96.1	110	99.9	119	119	115	106	113	124	113	118	122	126	117	130	117	105	130	130	107	111	120	126	148	104	133	135	121	110.41	
Iron	**26.8**	**29.3**	**24.6**	**18.4**	**21.6**	**29.9**	**13.3**	**20.6**	**19.6**	**29.8**	**14.6**	**22.8**	**17.7**	**26.6**	**13.2**	**22.4**	**19.2**	**19.7**	**15.1**	**27**	**15**	**14.5**	**26.8**	**8.94**	**14.5**	**6.01**	**10.2**	**17.3**	**13.2**	**12.3**	33.51	0.3
Magnesium	24.7	19.6	17.8	20.9	19	22.6	22.7	20.7	19.8	22.9	24.3	22.8	24.1	25.6	24.9	23.2	26.2	23.5	20.9	27	28	22.2	23.7	23.3	24.5	29.3	19.1	24.4	27.3	22.8	22.10	35.0
Manganese	**13.2**	**11.4**	**10.8**	**9.84**	**10.6**	**12.7**	**12.2**	**11.4**	**13.1**	**12.4**	**11.2**	**12.5**	**10.7**	**11.9**	**9.03**	**11.5**	**11.2**	**11.1**	**10.6**	**12**	**11**	**9.61**	**11.7**	**11.2**	**9.39**	**8.04**	**13.4**	**10.8**	**10.5**	**10.7**	13.59	0.3
Potassium	7.87	6.84	8	5.81	6.6	6.9	6.9	5.1	6.2	7.2	7.4	6.9	8.1	7.35	5.17	5.97	6.44	5.7	7.1	6.4	7.5	4.8	7.4	3.8	4.6	3.3	4.6	ND	7.67	6.3	8.38	
Sodium	**22.3**	16.5	16.1	15.6	14.9	16.7	19.9	14.2	15.5	17.2	**21**	16.6	19.4	**20.2**	14.9	15.8	**20**	14.5	15.5	16	ND	13.3	17.1	12.2	14	13	11.2	16.1	17.4	11.8	22.09	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic	0.01		ND		0.01		ND		0.01		0.012	0.01		0.013			0.012	0.011			ND	0.007	-	-	0.013	0.014	-	ND	ND	0.0108	0.01	0.025
Barium	0.56		0.52		0.43		0.43		0.44		0.6	0.53		0.555			0.516	0.45			0.53	0.334	-	-	0.303	0.271	-	0.394	0.414	0.304	0.45	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)	ND		ND		0.01		ND		0.01		ND	ND		ND			ND	ND			ND	0.001	-	-	0.0009	ND	-	0.0175	ND	0.006	0.01	0.05
Copper	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead	0	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.002	ND	ND	0.003	0.002	ND	0.0046	ND	0.0015	0.00	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel	0.05		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.004	-	ND	ND	0.0058	0.05	0.1
Selenium	0	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND			ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	0.00	0.0
Silver	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.001	0.002	-	ND	ND	ND	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	**0.013**	ND	ND	0.00	0.0005
Zinc	0.04		ND		ND		ND		0.03		0.03	0.018		ND			ND	0.014			0.014	0.014	-	-	0.01	ND	-	ND	ND	0.0028	0.03	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity	469	363	480	440	167	371	449	383	373	ND	476	267	457	482	410	413	490	482	407	440	480	460	485	461	487	530	388	468	484	539	465.1	
Biochemical Oxygen Demand	8		9		ND		6.3		3.5		6.3	4.7		11.9			ND	5		11	7	10.1	-	-	11.1	6.7	3.7	9	ND	9.9	9.6	
Boron	0.18		0.11		0.14		0.19		0.17		0.18	0.16		0.163			0.151	0.15			ND	0.14	-	-	0.1	0.08	-	0.119	0.107	0.11	0.1	1.0
Chemical Oxygen Demand	80.2	54.1	45	42	83	44.6	71.3	23.7	50.5	43	46.5	41.2	42.9	45	38	41.6	36.3	31	48.8	38	45	37.4	56.7	26.6	42.8	24.5	30	-	46.3	48.4	77.6	
Chromium (Hexavalent)	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.05
Chloride	45.5	23.8		17	24.8	18.3	38.6	17.4	16	21.4	27.7	15.7	27.3	25	21.7	16	25	14	14.5	13.6	22.7	12.8	19.1	8.1	10.2	9.6	7.9	12.6	18.2	11.4	34.0	250.0
Color (PCU units)	**500**		**30**		**120**		**60**		**160**		**300**	**80**		**30**			0	**320**			5	**280**	-	-	**340**	**90**	-	**20**	5	**15**	178.0	15.0
Nitrate-Nitrite	0.72	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	0.4	0.144	ND		0.104	ND	ND	0.055	0.182	ND	ND	ND	ND	ND	ND	ND	ND	0.052	0.2	10.0
Nitrogen-Ammonia	**14.2**	**14**	**12.2**	**10.4**	**2.3**	**8**	**17.1**	**5**	**4.3**	**8.8**	**6.3**	**8.3**	**9.2**	**13.2**	**7.36**		**9.36**	**8.9**	**11**	**7.82**	**9.24**	**6.63**	**12.5**	**3.7**	**7.03**	**5.29**	**5.1**	**6.87**	**9.3**	**6.7**	12.8	2.0
Phenols	**0.06**	**0.0661**	**0.002**	**0.002**	**0.017**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.09**	ND	ND	**0.031**	**0.087**	**0.026**	**0.041**	**0.006**	ND	**0.041**	**0.032**	**0.047**	0.1	0.001
Sulfate	ND	ND	2.2	2.2	ND	2.2	ND	2.6	ND	ND	2.1	ND	ND	ND	ND	2.32	ND	ND	ND	ND	ND	ND	ND	2.9	ND	3.2	3	ND	ND	2.6	2.2	250.0
Total Organic Carbon (TOC)	15.1	11	14	13	23.5	13.7	14.9	10	13.2	16.2	13.3	14.4	17.9	14.9	9.6	9.1	11.4	11.2	8.7	10.9	11.5	12.7	17.2	8.7	14.1	9.3	11.6	9.52	9.8	3.2	30.4	
Total Dissolved Solids (TDS)	**560**	**500**	445	478	478	449	**515**	464	**587**	312	**502**	468	467	**508**	482	**503**	**510**	468	430	**610**	**600**	482	**511**	479	488	**523**	407	487	**516**	459	512.5	500.0
Total Hardness	416	320	313	361	328	390	390	372	346	376	410	376	394	410	420	390	430	389	349		450	359	376	396	415	490	352	390	450	410	390.0	
Total Kjeldahl Nitrogen (TKN)	16.2		14		12.9		19.4		6		9.4	ND		13.1			9.95	9.5		5.2	9.26	7.89	-	-	7.59	5.25	-	7.53	7.7	6.4	12.6	
Turbidity (NTU units)	**200**	**42**	**100**	**53**	**41.6**	**25.8**	**12.7**	**22.6**	**40**	**47.8**	**33.8**	**10.8**	**15.1**	**12**	4	**5**	**6**	**10**	0.8	**6.4**	**26.8**	**14.4**	**10.4**	2.3	**7.1**	**23.4**	**7.84**	**6.3**	**10.9**	**6.6**	117.8	5.0
Cyanide			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected. J = Estimated.
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-13
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	<DL			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND			ND	ND				ND		ND		ND																						
Bromoform	ND			ND	ND				ND		ND		ND																						
Bromomethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone																																			
n-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide																																			
Carbon tetrachloride	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND			ND	ND				ND		ND		ND																						
Chloromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND			ND	ND				ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND			ND	ND				ND																										
1,2-Dibromoethane	ND			ND	ND				ND																										
Dibromomethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.06			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	2.2			3.0	2.0				2.0		2.0		2		1		1		ND		2		2	2	2	2	ND	2	1	1	0.9	0.8	1	2.29	ND
1,2-Dichloroethane	<DL			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND			ND	ND				ND		ND		ND		ND		ND		2		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND			2.0	ND				1.0		0.9		0.8		0.6		0.6		0.8		0.8		0.8	1	0.8	0.9	ND	0.9	ND	ND	ND	ND	0.9	ND	ND
trans-1,2-Dichloroethene	0.81			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1-3-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone																																			
Hexachlorobutadiene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane																																			
Isopropylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND			2.0	1.0				ND		ND		ND		ND		0.7		ND		0.7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone																																			
Naphthalene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND			ND	ND				0.5		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND
1,1,2-Trichloroethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	<DL			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65	ND	
Trichlorofluoromethane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																			
Vinyl chloride	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ND			ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Xylene & m-Xylene				ND	ND				ND		ND		ND		ND		1		ND		1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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ISCHUA LANDFILL
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	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	5.04				12.6				7.85				8.91				1.17				15.2			1.54		10.4		2.14		0.78		0.85		1.48	
Calcium	53.1	48.8	54.7	52.8	65.9	62.6	53.7	56.2	55.2	56.4	48.7	51.2	51	41.3	41	45.4	50.9	45.2	36.5	38.2	50.8	48.6	51.9	44.5	42.5	44.8	37.1	45.3	40.4	41.2	34.4	40.8	35.5	44.9	38.3
Iron	9.75	0.8	2	0.28	22.0	4.03	0.2	8.6	14.4	52.1	10.2	45.5	13.4	2.08	7.39	52.3	59.6	17.2	7.75	10.6	36.9	23.1	30.8	2.56	3.13	10.2	1.91	2.94	10.7	1.19	2.92	0.8	4.95	2.57	2.52
Magnesium	11	9.9	13.2	11.3	15.1	11.9	10.8	12.6	13.7	17.8	11.8	16.6	13	9.91	11.3	17.4	15.7	12.2	9.82	10.9	15.6	14	15.0	10.6	10.9	11.8	9.16	9.98	11.1	9.36	8.79	9.79	9.72	10.1	9.58
Manganese	3.33	1.94	2.02	1.06	0.83	0.82	0.18	0.71	2.85	1.98	1.94	2.82	2.37	1	2.29	2.95	11	2.08	1.94	1.39	3.79	3.11	1.79	2.58	1.44	4.79	2.03	1.38	2.35	2.18	2.6	1.54	1.15	2.99	1.87
Potassium	2.6	1.5	3.1	1.1	5.1	2.1	1.3	3.8	4.22	7.24	2.85	6.79	4.88	2.21	2.67	8.74	3.26	4.41	1.91	2.36	3.9	4.47	4.70	2.22	1.78	4.49	1.53	3.16	3.85	1.55	2.64	2.91	3.06	1.42	1.15
Sodium	6.6	8.6	9	8.4	8.0	7.5	7.5	7.8	8.76	7.75	6.29	5.92	8.38	6.22	7.8	7.64	0.04	7.65	6.57	8.01	8.69	7.71	7.03	8.45	7.17	7.95	6.95	7.75	6.99	7.38	7.36	7.43	7.01	6.59	8.25
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND				ND				0.03				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Arsenic	<DL				0.006				0.005				0.004				0.004				0.01			ND		0		0		ND		ND		ND	
Barium	0.1				0.18				0.17				0.15				0.29				0.19			0.060		0.12		0.13		0.05		0.08		0.03	
Beryllium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Cadmium		<DL	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	0.01	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)	<DL				0.03				0.02				0.03				ND				0.66			ND		0.02		ND		0.02		ND		ND	
Copper	ND				0.02				ND				0.02				ND				0.03			ND		ND		ND		ND		ND		ND	
Lead	0.004	ND	0.005	ND	0.009	0.007	ND	0.007	0.003	0.013	0.002	0.014	0.011	0.003	0.001	0.018	0.007	0.010	0.007	0.005	0.01	0.004	0.010	0.005	0.008	0.01	ND	0	0.01	0	0	0.01	0	0.02	0
Mercury	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Nickel	0.1			ND	ND				ND				0.03				0.06				0.47			0.017		0.04		ND		ND		ND		0.03	
Selenium	0.01	ND			ND	ND			ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Silver	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Thallium	0.2				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Zinc	0.05				0.07				0.05				0.05				0.04				0.14			ND		0.04		0.03		0.02		0.02		ND	
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	203	209	182	190	208	242	204	173	188	178	152	170	215	141	148	144	178	153	144	184	203	140	136	183	141	161	190	167	123	168	116	114	124	169	114
Biochemical Oxygen Demand	<DL				ND	ND			7				14				10				9			12		22		9		ND		ND		ND	
Boron	ND				0.08	ND			ND				0.03				ND				0.07			0.087		0.08		0.09		0.09		0.09		0.07	
Chemical Oxygen Demand	8.4	20	11	ND	7.0	5.0	ND	17.0	20.2	30.7	46	57.2	11.1	27.7	27.1	30.6	36.2	11.7	11.6	60.0	18.9	90.5	126	ND	ND	25.3	ND	ND	10.3	ND	32.3	31.4	37.1	ND	10.4
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Chloride	16.9	18	16.6	12	11	14.0	16.0	14.0	15.9	10.8	ND	12.6	11.9	11.7	12.5	11.7	13	11.4	10.3	10.1	9.66	9.82	9.05	11.5	ND	10.6	8.33	8.17	10.3	10.6	10.2	9.22	9.24	8.19	11.3
Color (PCU units)	9				ND				20				15				ND				25			30		20		300		1250		300		250	
Nitrate-Nitrite	<DL	<DL	0.2	ND	0.04	0.4	0.18	0.28	0.67	0.22	0.22	0.21	0.22	0.39	0.11	0.16	0.15	0.12	0.06	0.552	0.08	0.206	ND	0.080	0.068	ND	ND	0.13	0.14	0.17	0.09	0.1	0.11	0.13	0.42
Nitrogen-Ammonia	<DL	<DL	<DL	0.1	0.2	ND	0.4	0.1	0.19	0.07	0.17	0.23	0.35	0.59	0.13	0.06	0.13	0.1	0.05	0.102	0.22	0.172	0.16	0.117	0.316	0.22	0.2	0.47	0.11	0.17	0.17	0.13	0.14	0.12	ND
Phenols	0.002	ND	ND	ND	0.020	ND	ND	ND	ND	ND	ND	0.015	0.013	0.100	0.002	ND	0.004	ND	ND	0.039	0.01	ND	0.020	0.004	0.007	0.002	ND	ND	0.01	0.01	ND	ND	ND	ND	ND
Sulfate	8	1	23	ND	26	47.0	58.0	26.0	22	21.0	20	16	12	17	11	12	12	11	ND	6.3	6.5	26	17	18	11	12	8.4	108	26	ND	19	14	14	8.62	15.2
Total Organic Carbon (TOC)	6.2	9	4.8	4	3.0	3.0	3.0	19.0	18	8.3	7.8	5.7	11.4	11	5.6	8.8	5.4	4.9	9.1	10.1	23.7	18.8	16.9	6.7	8.7	4.8	6	4.1	4.8	2.9	5.2	5.9	7.6	2.7	3.2
Total Dissolved Solids (TDS)	212	222	225	236	291	309	260	221	238	209	201	218	212	211	171	192	215	205	169	187	252	199	221	206	169	213	161	211	215	183	162	170	156	199	175
Total Hardness	178	163	191	178	203	205	178	192	241	175	259	189	201	218	211	180	257	163	132	140	191	179	191	155	151	160	130	154	111	112	122	142	129	154	135
Total Kjeldahl Nitrogen (TKN)	0.9				1.1				2.19				3.36				ND				ND			3.10		ND		1.6		3.26		ND		1.18	
Turbidity (NTU units)	75	320	128	175	308	79.0	44.0	107	600	52.0	170	31	31	60	100	40	270	17	69	19	280	43	80	33	24	70	19	66	54	700	37	77	23	168	6.8
Cyanide	<DL				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	

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	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloroethane	1.8	1.1	1.2	2	1.4	1.3	1.3	1.2	1.7	1.3	1.1	0.84	1.2	1	1.4	1.2	1.1	0.84	1.1	ND	ND	0.7	ND	ND	0.76	0.68	ND	ND	ND	ND	1.14	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	
cis-1,2-Dichloroethene	1.5	0.83	0.8	1.7	1.4	1.3	1.3	1.4	2.1	1.8	1.1	0.9	1.7	1.2	2	2.1	1.7	1	1.8	ND	ND	0.82	ND	ND	1.1	0.88	ND	ND	ND	ND	0.82	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	10.0	**
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene	0.54	ND	ND	ND	0.44	0.46	0.44	ND	0.36	0.31	0.28	ND	0.25	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride	ND	ND	ND	ND	0.3	0.25	ND	0.22	0.43	0.35	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	

MW-13
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum	5.93		2.52		9.4		0.27		ND		ND	0.22		ND			0.296	ND			ND	0.02	0	-	0.08	ND	-	ND	0.238	0.026	2.64	
Calcium	52.3	32.5	45.1	46.5	46.9	42.3	48.7	43.7	44.5	37.3	40.1	33.7	41.7	39.3	41.6	37.7	41.6	37.3	46.2	38	47	31.7	14.1	33.4	39.5	36.6	44.3	38.4	44	46.8	44.04	
Iron	**10.8**	**6.82**	**4.89**	**1.26**	**12.8**	**0.74**	**0.33**	0.07	0.12	0.1	0.16	**0.36**	0.21	0.133	0.103	0.223	**0.409**	0.14	0.21	0.039	0.19	0.1	**0.34**	**1**	0.19	0.08	**0.42**	0.101	**0.459**	0.0907	8.00	0.3
Magnesium	13.8	9.53	10.9	10.7	12.9	10.7	12	11	11.6	10.2	10.4	9.2	10.8	10.5	11.1	10.5	10.8	10.4	12.6	11	13	9.6	5.3	10.6	10.3	10.6	11.3	9.95	11.9	13	11.50	35.0
Manganese	**4.84**	**1.45**	**5.57**	**0.76**	**4.2**	**0.83**	**0.48**	0.1	**7.5**	**0.53**	0.08	**0.42**	0.24	0.167	0.08	0.28	**0.365**	**0.34**	**0.49**	0.12	**0.55**	0.219	**2.09**	**0.562**	0.145	0.294	0.136	**0.641**	**0.94**	0.171	1.78	0.3
Potassium	2.68	2.61	1.97	1.06	4.2	1.1	1.3	0.87	2.1	0.84	1.1	0.78	0.94	0.874	0.825	0.696	1.05	0.7	1.1	0.64	0.91	0.6	ND	ND	0.7	1.7	ND	ND	ND	ND	2.25	
Sodium	8.68	7.51	8	7.54	8.6	7.5	11.2	7.9	8.1	7.6	11	8.8	9.9	11.5	11.7	9.8	11.8	9.2	12.2	11	ND	11.5	1.9	10.8	10.1	11.3	10.4	11.2	12.4	10.7	8.26	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic	0		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.025
Barium	0.11		0.1		0.13		0.01		0.03		0.013	0.018		0.015			0.021	0.019			ND	0.016	-	-	0.019	0.022	-	ND	ND	0.017	0.07	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)	0.02		ND		0.03		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.03	0.05
Copper	ND		0.01		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead	0.01	0.01	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel	0.04		ND		0.02		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	0.002	-	ND	ND	0.0021	0.02	0.1
Selenium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0
Silver	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.01	0.0005
Zinc	0.05		0.02		0.04		ND		0.02		0.054	0.019		0.033			0.098	0.031			0.074	0.041	-	-	0.03	0.015	-	0.0206	0.0267	0.0143	0.03	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity	175	111	165	150	181	129	132	148	160	155	202	79.8	147	132	156	165	186	156	189	140	180	147	164	147	158	154	168	145	169	170	161.8	
Biochemical Oxygen Demand	ND		ND		2.5		ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	ND	ND	ND	ND	ND	1	2.5	
Boron	0.09		0.06		0.08		0.07		0.06		0.073	0.045		0.058			0.068	0.045			ND	0.07	-	-	0.06	0.06	-	ND	0.0569	0.0434	0.0	1.0
Chemical Oxygen Demand	33.6	ND	ND	9	54.1	ND	12	ND	ND	12.9	ND	ND	ND	ND	ND	ND	ND	ND	11.4	ND	ND	6	ND	30.3	ND	9.7	9.7	-	ND	17.2	15.8	
Chromium (Hexavalent)	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0059	0.0	0.05
Chloride	11.2	8.78	8.4	7.5	5.7	6.6	10.2	8.1	6.5	6.5	6.2	6	7.4	6.9	5.43	5.94	5.66	6.7	7.1	5.52	4.96	6	5.7	5.3	4.4	6.3	5.3	4.82	4	6.3	9.0	250.0
Color (PCU units)	**100**		5		**200**		**25**		**15**		**60**	**18**		5			**60**	**80**			ND	12	-	-	14	**16**	-	10	5	5	89.0	15.0
Nitrate-Nitrite	0.13	0.14	0.2	0.07	0.1	ND	0.1	0.09	ND	ND	0.18	0.19	0.16	0.098	0.113	ND	0.086	0.068	ND	0.055	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.066	0.1	10.0
Nitrogen-Ammonia	0.14	ND	0.2	0.2	0.14	0.2	ND	ND	0.21	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.084	ND	0.17	0.1	0.03	0.1	2.0
Phenols	ND	ND	ND	**0**	**0.02**	ND	ND	ND	ND	ND	ND	ND	ND	**0.012**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.247**	ND	**0.01**	**0.002**	0.0	0.001
Sulfate	10.4	9.97	8.8	9.2	6.9	8	14.2	9.8	6.4	9.5	10.6	8.3	6.8	6.7	6.11	6.19	6.7	6.6	4.1	ND	ND	3.9	3.5	3.6	3.5	3.2	3.6	ND	8.5	9	13.0	250.0
Total Organic Carbon (TOC)	2.8	1.7	5	2.4	15.8	1.9	3	2.3	2.8	2.7	2.3	2.2	3.2	2.1	1.4	1	2.2	2	ND	ND	ND	2.4	2.4	2.2	2.2	2.2	543	2.21	3.5	ND	13.8	
Total Dissolved Solids (TDS)	197	149	190	192	220	163	255	220	334	157	148	179	163	193	144	193	188	178	175	260	190	161	167	164	172	168	183	163	204	197	199.4	500.0
Total Hardness	187	120	157	161	170	150	171	154	159	135	143	122	394	140	150	140	150	136	167	140	170	119	56.8	127	141	135	157	108	170	150	163.8	
Total Kjeldahl Nitrogen (TKN)	ND		ND		1.9		ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	0.29	0.21	-	ND	0.16	0.17	0.6	
Turbidity (NTU units)	**140**	**53**	**190**	**110**	**149**	**246**	**21.2**	**40.6**	**21**	**10.3**	**9.2**	4.6	**8**	**30**	1	**8**	**32**	**5**	**8.1**	**12.3**	**10.1**	**13**	**5.1**	**21.7**	**5.4**	**23**	**14.3**	**5.3**	**11.7**	**6.3**	86.0	5.0
Cyanide			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

MW-14
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	ND	0.44	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromoform	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Bromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
Chloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND		ND																										
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND		ND																										
Dibromomethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iodomethane																																			
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	2.0	1.0	1.0	3.0		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone																																			
Naphthalene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	<DL	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Xylene & m-Xylene				ND	ND				ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	22				7.7				3.42				6.45				13.4				7.68			4.10		7.33		1.28		1.66		0.34		0.83	
Calcium	50.7	65.1	58.2	69.6	80.5	82.8	79.9	70.7	84.3	82.6	80.9	73.7	78.4	84.2	75.4	73.1	83.7	72.8	69.6	67.8	80.6		79.1	66.4	80.7	81.1	71.5	48.8	79.1	62.4	49.6	47.8	54.8	44.4	65.1
Iron	49.5	4.6	0.55	1.24	13.6	2.15	1.6	1.2	6.8	9.02	9.63	5.92	11.5	14	6.26	16	22.1	15.6	16.9	20.2	15.6		3.88	7.79	6.49	8.5	6.74	1.72	5.24	3.11	0.73	0.77	0.53	1.59	1.68
Magnesium	17.7	15.9	17.2	19.5	22.6	19.5	19.1	19.3	21.7	21.5	21	19.1	20.6	22	19.9	20.7	21.4	19.1	19	19.4	21.8		19.1	17.5	20.8	20.5	19.7	17.6	17.8	13.8	13.1	11.2	14.2	14.4	15.9
Manganese	2.28	0.9	0.58	0.32	0.54	0.39	0.08	0.05	0.39	0.03	0.35	0.23	0.5	0.66	0.37	0.76	0.79	0.64	0.598	0.870	0.85		0.21	0.447	0.258	0.43	0.46	0.12	0.37	0.33	0.07	0.22	0.06	0.06	0.096
Potassium	7.3	3.9	7.5	6.8	6.5	3.4	7.2	6.3	5.12	5.4	9.59	5.27	4.34	8.58	4.04	7.26	6.86	5.83	6.45	5.82	3.97		3.53	3.62	5.01	5.69	4.5	5.92	5.45	3.16	9.09	3.5	2.51	2.83	2.59
Sodium	8.9	10.2	14.5	20.4	18.3	12.9	27.3	20.5	17.5	16.5	20.9	18.7	15.9	15.7	14.2	18.3	18	15	14.7	15.5	15.7		12.3	14.9	16.2	16	15.4	18.5	15.2	16.9	18.9	17.4	15.5	17.3	16.4
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	0.01				ND				ND				ND				ND				ND			0.028		ND		ND		ND		ND		ND	
Arsenic	ND				ND				0.003				0.004				ND				0.01			0.004		ND		0		0		ND		ND	
Barium	0.15				0.08				0.08				0.1				0.14				0.12			0.087		0.13		0.12		0.1		0.1		0.15	
Beryllium					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Cadmium		<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.01		ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)	0.02	0	0	ND	0.02	ND	ND	ND	0.02	0.03	0.03	0.02	0.03	0.03	0.02	0.06	0.05	0.07	0.05	0.034	0.03		ND	0.024	0.044	0.34	0.03	ND	0.02	0.02	0.02	ND	ND	ND	0.003
Copper	ND				0.01				ND				0.01				0.03				0.02			ND		0.02		ND		ND		ND		ND	
Lead	0.013	<DL	<DL	ND	0.005	ND	0.070	0.010	0.001	0.005	0.003	0.005	0.007	0.006	0.005	0.010	0.011	0.007	0.006	0.007	0.01		0	0.024	0.005	0.01	0	0	0	0	ND	0	ND	0.01	0.001
Mercury					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Nickel	0.14				ND				ND				0.03				0.05				0.03			0.020		0.15		ND		ND		ND		ND	
Selenium	0.03	<DL	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver					ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Thallium	0.2				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND	
Zinc	0.11				0.06				0.03				0.05				0.09				0.07			0.054		0.07		0.03		0.03		0.03		0.03	
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	207	224	226	209	244	233	299	236	237	221	236	231	189	227	221	244	235	225	232	237			224		234	235	171	189			139	136	187	139	165
Biochemical Oxygen Demand	8				ND				6				ND				ND				19			3		8		3							
Boron	ND				0.04				ND				ND				ND				ND			ND		ND		0.06		ND		ND		ND	
Chemical Oxygen Demand	15.9	<DL	<DL	ND	ND	ND	ND	ND	12.2	ND	1.75	17.1	ND	ND	ND	ND	ND	30.9	ND	14.3			ND		ND	21.4	ND	ND			15.9	ND	ND	ND	ND
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			ND		ND		ND						ND	
Chloride	2.4	8	7.8	3	9	ND	ND	4.0	ND	1.9	ND	2.5	ND	2.08	1.87	2.15	2.69	2.07	2	ND			ND		1.94	1.74	2.01	1.35			ND	1.58	1.68		1.52
Color (PCU units)	25				ND				20								5									30		250						75	
Nitrate-Nitrite	<DL	<DL	<DL	ND	0.05	ND	ND	0.1	0.19	1.3	0.14	6.89	0.13	0.43	0.09	0.08	0.49	0.2	0.09	0.252			ND		0.19	0.15	0.14	0.46			0.31	0.53	0.21	0.4	0.363
Nitrogen-Ammonia	<DL	<DL	<DL	ND	0.1	ND	0.3	ND	0.21	0.1	0.05	0.08	0.1	0.67	0.17	0.2	0.07	0.06	0.1	0.021			0.140		0.012	ND	ND	0.49			ND		ND	ND	ND
Phenols	0.002	ND	<DL	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.004	0.001	ND	ND	ND	ND	0.054	0.03		0.01		ND	ND	ND	ND			ND		ND	ND	0.0042
Sulfate	63.3	47.3	59.8	68	81	173	64.0	109	90	100	75	93	94	82	68	100	80	100	80	69			77		75	69	79	54			66	99	75		82.1
Total Organic Carbon (TOC)	5.2	4	2.3	2	1	1.0	1.0	3.5	4.8	4.0	1.2	2.0	1.2	3	1.2	5.8	ND	1.1	2.7	14.5			2.4		1.9	1.2	1.4	2.5			1.2	1.6	1.7	1.3	1.1
Total Dissolved Solids (TDS)	305	310	316	331	373	375	429	369	395	348	371	377		383	319	306	317	344	340	327			326		331	338	288	282			270	238	281	241	285
Total Hardness	199	228	216	254	294	287	278	256	346	315	315	287		378	355	293	387	260	252	249			276		287	287	260	194			178	165	195	170	228
Total Kjeldahl Nitrogen (TKN)	<DL				0.9				ND				2.42				1.39				ND			2.98		ND		ND							
Turbidity (NTU units)	70	905	225	230	242	171	304	456	320	320	240	240	170	200	480	58	200	97	110	270			360		225	280	85	57			19		15	87	78
Cyanide	0.01				ND				ND				ND				ND				ND			ND		ND		ND				ND			

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	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	ND	ND	ND	5.1	1.6	1.6	ND	4.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	1.0	
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	50.0	
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	7.0	
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.6	
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	10.0	**
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	5.0	
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	2.0	
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
p-Xylene & m-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	

MW-14
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum	0.4		4.33		1.1		ND		ND		0.24	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	2.65	
Calcium	35.5	40.3	96.8	67.5	52.7	68.3	34.6	23.5	55.6	33	57.1	37.2	31	26.1	56.5	43.2	49.1	61.7	53.9	32		41.5	50	54.9	59.1	45.8	55.1	50.6	59.9	60.1	60.76	
Iron	**0.84**	**1.77**	**9.15**	**0.54**	**1.5**	**0.64**	0.07	0.06	0.16	0.07	**0.74**	0.11	0.22	0.089	0.165	0.06	0.05	ND	0.13	0.049		0.03	ND	ND	0.13	0.05	ND	ND	0.162	ND	4.91	0.3
Magnesium	10.3	12.4	14.4	8.7	15.5	15.8	25.4	16.6	19.1	17.1	19.1	18.1	21.3	14.8	17	17.9	17.8	16.9	16.4	19		14	15.1	15.3	15	14.6	14.7	13.4	15.2	15	17.45	35.0
Manganese	0.04	0.06	**0.31**	0.06	0.08	0.06	ND	ND	0.11	ND	0.024	0.027	0.033	ND	0.215	ND	ND	0.12	0.12	ND		0.008	0.035	0.015	0.246	0.013	0.208	0.0524	0.126	0.0682	0.27	0.3
Potassium	3.2	3.71	4.33	5.48	3.7	3.8	2.7	3.6	2.5	3	3.3	2.6	3.9	3.72	2.09	2.24	2.45	2	2.4	2.2		1.8	2	ND	1.7	2.1	ND	ND	ND	1.92	4.08	
Sodium	14.9	15.6	13.4	18	17	17.2	17.8	18.3	15.9	15.2	15.9	16.2	15.8	16.7	14.2	13.5	14.1	13.1	11.4	10		9.9	9.3	9.5	9.4	10.5	10	10.6	10.4	9.93	15.15	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic	0		ND		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.025
Barium	0.12		0.3		0.22		0.1		0.08		0.15	0.064		0.138			0.06	0.068				0.071	-	-	0.054	0.065	-	ND	ND	0.0415	0.09	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND				0.0002	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)	ND	0.01	0.02	ND	0.02	0.01	ND	ND	ND		0.006	ND	ND	ND	ND		ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.02	0.05
Copper	ND		0.01		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001		0.0009	ND	ND	ND	ND	ND	0.0039	ND	ND	0.00	0.025
Mercury	ND		ND	ND	ND		**0.01**		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.01	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0
Silver	ND		ND	ND	ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	0.01	0.0005
Zinc	0.02		0.03		ND		ND		ND		0.015	0.016		0.01			0.015	ND				0.007	-	-	0.007	ND	-	ND	0.028	0.0016	0.03	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity			145	34	146	139		355	ND	158		181			159	179		257	218	190	ND	210	205	216	216	205	210	187	-	243	194.1	
Biochemical Oxygen Demand			ND															ND		ND	ND	ND	-	-	-	ND	ND	ND	-	1	2.2	
Boron	ND		ND		ND		ND		ND		0.03	0.03		0.027			0.033	0.031				ND	-	-	ND	0.04	-	ND	ND	0.0215	0.0	1.0
Chemical Oxygen Demand			ND	13	92.1	ND	ND	ND	ND	ND		ND			ND	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	5.2	-	ND	13	5.0	
Chromium (Hexavalent)			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	-	0.0086	0.0	0.05
Chloride			1.5	ND	1.5	1.6		1.4	1.6	1.4					1.42	1.94	1.62	1.7	1.7	1.91	15.1	ND	2.7	2	2.1	2.2	2.3	2.04	-	2.7	2.2	250.0
Color (PCU units)			5		**120**													ND			ND	7	-	-	13	14	-	5	**20**	10	30.0	15.0
Nitrate-Nitrite			0.09	0.05	0.05	ND		ND	ND	ND					0.285		0.106	ND	ND	0.095		ND	ND	ND	ND	ND	ND	ND	ND	0.086	0.3	10.0
Nitrogen-Ammonia			ND	ND	ND	0.13	ND	ND	ND	ND		ND			0.116		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.12	0.024	0.1	2.0
Phenols			ND		**0.02**	ND	ND	ND	ND	**0.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	0.001
Sulfate				49	48.4	55.4		53.8	50.7	44.7					37.9	33.3	33.6	30.4	22	19	16.9	17	16.1	15.6	13.6	15.1	14.4	12.4	-	18.2	58.6	250.0
Total Organic Carbon (TOC)	ND	ND	ND	1.3	20	ND	ND		ND	1.9	11.1	ND	4.9	1.3	1.3	ND	1	ND	ND	ND		ND	1.1	ND	ND	1.2	ND	ND	2.3	0.085	2.2	
Total Dissolved Solids (TDS)			305		259	215		229	278	232					255	245		238	215	350	240	215	223	229	228	211	231	209	-	249	287.4	500.0
Total Hardness			301	205	195	236	191	127	217	153		167			210	180	200	224	202	160		161	187	200	209	175	206	132	200	240	233.3	
Total Kjeldahl Nitrogen (TKN)			ND		1.8		ND		ND			ND					ND	ND		ND	0.597	ND	-	-	ND	ND	-	ND	0.98	0.14	0.4	
Turbidity (NTU units)			**74**	**67**	**129**	**415**		**21.7**		**24.1**		**6.3**	**16.7**	**22**	3	2	**42**	**6**	**5**	**6.2**	**50.1**	3.2	3	0	4.4	ND	**5.3**	3.3	**9.9**	1.8	137.7	5.0
Cyanide					ND		ND		ND					ND			ND	0.16				ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.

* = Applies to the sum of cis and trans-1,3-dichloropropene.

** = Guidance Value.

ND values are included in calculation of Mean and are considered equal to zero.

(Blank) or "-" = Not Analyzed.

ND = Not Detected.

<DL = Detected below method detection limit.

J = Estimated.

B = Analyte was detected in method blank.

SEEP
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	ND	3.02	2.66	3.0		2.0	2.0		1.0		2.0		2		1		3		2				1	1	1	1	2		2	3	2	2	2		2.59
Bromobenzene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromochloromethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromodichloromethane	ND	ND	<DL	ND		ND	ND		ND		ND		ND																						
Bromoform	ND	ND	ND	ND		ND	ND		ND		ND		ND																						
Bromomethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
sec-Butylbenzene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
tert-Butylbenzene	ND	0.32	<DL	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Chlorobenzene	ND	1.08	0.91	ND		1.0	1.0		1.0		0.9		0.8		0.6		2		0.9				0.9	0.7	0.8	1	1		1	2	1	1	1		2.71
Chloroethane	ND	ND	<DL	ND		1.0	2.0		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Chloroform	ND	2.06	<DL	ND		ND	ND		ND		ND		ND																						
Chloromethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Chlorotoluene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
4-Chlorotoluene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Dibromochloromethane	ND	ND	ND	ND		ND	ND		ND		ND		ND																						
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND		ND	ND		ND																										
1,2-Dibromoethane	ND	ND	ND	ND		ND	ND		ND																										
Dibromomethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichlorobenzene	ND	0.31	0.21	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3-Dichlorobenzene	ND	<DL	<DL	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,4-Dichlorobenzene	0.35	1.72	1.08	ND		1.0	2.0		1.0		0.9		0.7		0.6		1		0.7				0.7	0.6	0.6	0.8	0.7		0.8	1	0.8	0.7	0.7		1.96
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND	2.0		ND	ND		ND		0.5		ND		ND		1		0.7				0.9 J	ND	ND	ND	ND		ND	ND	ND	ND	0.7		ND
1,1-Dichloroethane	2.29	10.6	8.77	16.0		9.0	16.0		3.0		6.0		6		3		9		ND				4	5	4	5	6		5	7	6	6	7		5.26
1,2-Dichloroethane	<DL	0.51	0.29	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloroethene	ND	ND	<DL	ND		ND	ND		ND		ND		ND		ND		ND		6				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
cis-1,2-Dichloroethene	ND	32.3	23.3	9.0		11.0	15.0		5.0		7.0		5		5		11		11				6	4	6	5	8		6	10	9	11	10		7.19
trans-1,2-Dichloroethene	3.03	1.66	0.80	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichloropropane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3-Dichloropropane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
2,2-Dichloropropane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloropropene	ND	ND	<DL	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
cis-1-3-Dichloropropene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
trans-1,3-Dichloropropene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Ethylbenzene	ND	0.53	0.14	3.0		2.0	ND		1.0		1.0		2		ND		2		0.6				ND	0.7	ND	ND	ND		ND	ND	ND	ND	ND		1.11
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Iodomethane																																			
Isopropylbenzene	ND	<DL	0.33	ND		ND	ND		0.5		ND		ND		ND		0.5		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		1.17
p-Isopropyltoluene	ND	2.03	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Methylene chloride	ND	<DL	<DL	1.0		2.0	25.0		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
4-Methyl-2-pentanone																																			
Naphthalene	ND	0.91	0.20	ND		ND	ND		0.5		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
n-Propylbenzene	ND	0.22	0.19	ND		ND	ND		0.5		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Styrene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Tetrachloroethene	ND	ND	<DL	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Toluene	ND	0.76	0.35	ND		2.0	ND		ND		ND		1		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND		ND	ND		0.6		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,1-Trichloroethane	ND	4.47	3.19	ND		1.0	1.0		0.5		ND		ND		ND		ND		1				0.6	ND	0.7	ND	ND		ND	ND	ND	ND	ND		ND
1,1,2-Trichloroethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Trichloroethene	<DL	26.47	12.7	5.0		2.0	ND		2.0		7.0		1		2		21		4				3	2	1	4	2		2	2	2	14	4		1.63
Trichlorofluoromethane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,3-Trichloropropane	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND		ND	ND		0.7		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	2.11	12.0		10.0	19.0		5.0		4.0		4		3		7		6				4	2	3	3	5		3	5	4	4	4		ND
o-Xylene	ND	<DL	1.12	ND					ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
p-Xylene & m-Xylene			0.29	2.0					1.8		0.6		0.6		ND		0.7		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND

SEEP
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ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	ND								0.06				0.2				0.87							ND		0.23				0.09		ND			
Calcium	12.8	40	32.8	41.6		29.0	35.3	42.1	26.7	33.8	33.2	39.3	38.2	35.7	28	28.1	40.6	29	29.9	39.5		45.8	29.6	32.4	27.6	32.2	37.3		40.4	49.2	39.2	41.6	38		54.2
Iron	**3.62**	**17.1**	**9.6**	**24.7**		**8.94**	**8.2**	**57.7**	**5.53**	**8.32**	**16.1**	**14.0**	**22.1**	**9.8**	**6.49**	**8.4**	**47.9**	**10.5**	**9.41**	**16.7**		**16.4**	**7.44**	**8.89**	**23.8**	**11.1**	**18.7**		**12.1**	**11.8**	**6.2**	**17.7**	**19.1**		**121**
Magnesium	4	9	10.3	13.6		9.0	10.9	14.3	8.26	10.1	10.7	12.9	12.8	11.6	9.09	8.86	12.6	8.86	9.17	13.5		14.4	8.82	10.9	8.98	10.7	11.2		12.8	16.2	12.7	14.3	12.5		14.6
Manganese	**3.85**	**11.3**	**9.2**	**9.65**		**6.3**	**9.48**	**10.8**	**5.52**	**8.82**	**8.02**	**9.59**	**8.5**	**8.4**	**5.74**	**6.53**	**8.82**	**6.89**	**6.97**	**8.63**		**10.8**	**6.39**	**6.59**	**6.23**	**6.24**	**8.21**		**6.68**	**9.27**	**7.13**	**8.03**	**7.73**		**11.3**
Potassium	2	3.2	2.4	3.3		3.2	4.5	4.2	3.34	3.78	2.22	2.92	2.63	3.23	3.04	2.53	2.94	2.9	2.6	3.20		3.89	2.39	2.85	2.56	2.94	2.76		3.4	3.94	3.23	3.39	2.93		4.3
Sodium	4	10.3	7.1	8.2		8.3	8.8	10.1	7.22	7.23	6.31	6.64	7.92	6.71	6.43	6.12	9	6.11	5.25	7.41		8.17	4.80	6.69	5.12	6.37	5.46		7.08	9.23	6.51	7.54	6.08		8.06
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND								ND				ND				**0.03**							**0.028**		ND				ND		ND			
Arsenic	<DL								0.005				0.019				**0.040**							0.009		0.02				0.01		**0.03**			
Barium	0.05								0.11				0.18				0.22							0.131		0.14				0.21		0.172			
Beryllium		ND							ND				ND				ND							ND		ND				ND		ND			
Cadmium		<DL	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND
Chromium (Total)	ND								ND				0				0.02							ND		ND				ND		ND			
Copper	ND								ND				ND				ND							ND		ND				ND		ND			
Lead	ND		0.003	ND		ND	**0.030**	0.014	ND	ND	0.002	0.001	0	0.007	0.002	0.002	0.005	0.001	ND	0.007		0.002	0.001	0.006	0.005	0	ND		0	0	ND	0.005	0		0.004
Mercury	ND								ND				ND				ND							ND		ND				ND		ND			
Nickel	**0.11**								ND				0.03				0.05							0.023		0.03				0.04		0.032			
Selenium	ND	<DL							ND				ND				ND							ND		ND				ND		ND			
Silver	ND								ND				ND				0.01							ND		ND				ND		ND			
Thallium	<DL								ND				ND				ND							ND		ND				ND		ND			
Zinc	ND								0.003				0.02				0.02							ND		0.02				0.03		ND			
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	102	190	167	176		168	204	194	112	143	86.4	224	169	173	124	125	213	166	155	211		204	80.0	160	104	139	169		190	227	177	160	182		192
Biochemical Oxygen Demand	3								ND				ND				4							ND		ND				ND		ND			
Boron	ND								ND				ND				ND							0.074		0.07				0.11		0.113			
Chemical Oxygen Demand	4.5	18	20	9		24.0	22.0	22.0	27.1	16.2	21.8	14.4	ND	21	14.4	ND	46.1	ND	ND	15.3		18.4	ND	ND	ND	ND	ND		17.4	ND	23.6	ND	15.8		23.6
Chromium (Hexavalent)	ND								ND				ND				ND							ND		ND				ND		ND			
Chloride	6.1	13	15	15		13.0	20.0	17.0	7.14	8.5	11	12.8	12.8	10.4	7.34	7.71	16.8	7.71	7.69	11.6		14	7.72	10.4	5.54	8.17	7.24		12.2	14.9	7.56	9.45	6.97		10.9
Color (PCU units)	**45**								**65.0**				**75**				**60**							**150**		**40**				**25**		**300**			
Nitrate-Nitrite	0.1	<DL	<DL	ND		0.22	ND	ND	0.52	1.3	1.52	0.18	ND	0.63	ND	0.11	ND	ND	ND	ND		1.9	ND	ND	ND	1.47	ND		0.11	3.06	0.09	0.191	ND		0.289
Nitrogen-Ammonia	1.5	<DL	<DL	0.3		1.5	**3.1**	**7.4**	**2.93**	**3.5**	**3.07**	**3.55**	**3.61**	**2.87**	1.21	**2.44**	**3.74**	**2.76**	**2.93**	**3.02**		**2.61**	**2.24**	**2.59**	**2.31**	**2.18**	**3.06**		1.86	**3.11**	**2.25**	**2.63**	**2.48**		**2.82**
Phenols	**0.003**	<DL	ND	**0.006**		ND	ND	ND	**0.009**	**0.026**	**0.010**	**0.017**	**0.023**	**0.001**	**0.006**	**0.003**	**0.015**	**0.012**	**0.006**	**0.021**		**0.035**	**0.012**	**0.012**	**0.006**	**0.01**	**0.01**		**0.01**	**0.03**	**0.01**	**0.0099**	**0.02**		**0.0199**
Sulfate	<DL	5.1	8	8		14.0	18.0	ND	16.0	15.0	45	7.6	15	11	9	14	15	17	8.3	12		40	16	13	8.5	25	10		13	11	7.9	25	11		14.7
Total Organic Carbon (TOC)	3.7	8	8.1	6		9.0	7.0	16.0	6.0	11.4	5.2	7	8.5	11.5	3.6	4.8	8.8	4.1	4.4	6.6		9.1	4.3	4.2	6.0	4.5	5.8		5.7	9.5	4.6	4.5	5.1		6.9
Total Dissolved Solids (TDS)	132	200	211	231		165	200	195	129	172	189	230	178	224	128	148	262	179	171	220		262	161	**1700**	150	185	179		206	247	207	200	224		240
Total Hardness	48.5	137	124	160		110	133	164	111	144	142	168	186	198	164	123	261	109	112	154		174	110	126	106	124	139		154	190	150	163	146		195
Total Kjeldahl Nitrogen (TKN)	1.8								2.14				4.17				5.91							2.89		2.54				3.83		5.31			
Turbidity (NTU units)	**5**	**122**	**40.2**	**120**		**15.5**	**5.0**	**345**	**8.9**	3.1	**320**	**18**	**21**	**30**	**5.1**	**7.5**	**170**	**7**	**11**	**14**		**18**	**7**	**27**	**21**	**11**	**16**		**26**	2.6	**5.4**	**35**	**7**		**23**
Cyanide	<DL								ND				ND				ND							ND		ND				ND		ND			

SEEP
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	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	1.7	2.8	3.4	4.8	2	3.9	2.6	ND	2.9	1.1	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	1.12	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Benzene		0.58	2	1.4	1.7	0.35	3.9	2	2.6	1.4	1.5	1.7	1.3	1.4	2.6	2	1.2	0.72	2.1	ND	ND	1.4	ND	ND	1.4	1.9	ND	ND	ND	ND	1.51	1.0	
Bromobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
sec-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	60.0	
Carbon tetrachloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene		0.58	1.9	1.6	1.8	0.43	4.6	2.5	3	1.6	1.5	2.6	1.9	1.9	3.4	2.2	1.6	1	3.2	ND	ND	2.2	ND	ND	2.2	3	ND	ND	ND	ND	1.31	5.0	
Chloroethane		ND	ND	ND	0.25	ND	0.68	0.39	0.46	0.26	ND	0.35	0.27	0.28	0.5	0.43	0.22	ND	ND	ND	ND	0.55	ND	ND	0.36	0.43	ND	ND	ND	ND	0.16	5.0	
Chloroform			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	7.0	
Chloromethane		ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
2-Chlorotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	0.7	ND	0.23	ND	ND	0.32	0.26	0.28	0.33	0.21	0.22	ND	ND	ND	ND	0.24	ND	ND	0.22	0.25	ND	ND	ND	ND	0.08	3.0	
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	3.0	
1,4-Dichlorobenzene		ND	ND	0.9	1	ND	2	1.3	1.5	0.85	0.71	1.2	0.89	0.8	1.4	1	0.83	0.53	1.4	ND	ND	1	ND	ND	1.1	1.1	ND	ND	ND	ND	0.77	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane		ND	ND	ND	1.1	ND	0.89	0.55	ND	0.38	0.53	0.4	0.67	0.37	0.7	0.48	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	7.2	0.36	5.0	
1,1-Dichloroethane		2.5	6.4	4.9	5.2	1.2	8.8	5.5	5.4	4.4	5.8	4.5	5	5.6	8.8	6.1	7.5	1.8	3.6	5.2	4.1	3.9	ND	5.4	3.6	4.7	ND	ND	ND	ND	5.19	5.0	
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.6	
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	5.0	
cis-1,2-Dichloroethene		3.1	10.6	7.1	8.3	1.8	19	10	11	8.6	11	8.1	22	12	25	16	19	2.4	9.4	9.1	8.6	8.7	11	9	9.7	16	ND	15	21.5	6.3	10.31	5.0	
trans-1,2-Dichloroethene		ND	0.6	ND	ND	ND	0.79	0.4	0.43	0.39	0.44	0.34	0.91	0.64	0.81	0.55	0.47	ND	ND	ND	ND	0.41	ND	ND	ND	0.55	ND	ND	ND	ND	0.25	5.0	
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene		ND	ND	ND	ND	ND	0.9	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene		ND	ND	ND	ND	ND	0.61	0.38	0.61	ND	ND	0.26	ND	ND	0.4	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.10	5.0	
p-Isopropyltoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.04	5.0	
Methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Naphthalene		ND	ND	ND	ND	ND	0.38	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.05	10.0	**
n-Propylbenzene		ND	ND	ND	ND	ND	0.33	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.03	5.0	
Styrene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Toluene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	5.0	
1,2,3-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.01	5.0	
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	5.0	
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	0.02	1.0	
Trichloroethene		ND	3.6	1.2	5.5	0.51	8.7	2.5	2.9	1.3	0.38	0.99	2	8.5	6.3	1.9	ND	0.45	1	ND	ND	ND	ND	ND	1.1	5.3	ND	ND	ND	ND	3.36	5.0	
Trichlorofluoromethane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene		ND	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.03	5.0	
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00		
Vinyl chloride		0.68	4.3	3.5	3.3	0.69	6.2	3.7	3.6	2.3	3.9	2.4	4	3.7	5.2	3.3	4.6	0.96	2.5	3.6	ND	2.9	ND	ND	2.7	3.5	ND	ND	ND	1.9	3.51	2.0	
o-Xylene		ND	ND	ND	ND	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	5.0	
p-Xylene & m-Xylene		ND	ND	ND	ND	ND	ND	ND	1.3	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	5.0	

SEEP
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum			ND		ND		ND		0.44		ND	ND		ND			ND	0.32			0.19	ND	-	-	ND	ND	-	ND	ND	0.101	0.08	
Calcium		21.9	41.2	33.3	35.4	14.8	68	45.4	46.8	38.6	48.9	41.8	46.8	55	53.9	51.9	53.6	22.3	47.7	48	49	39	46.8	47	49.8	50.3	28.5	54.5	54.4	47.3	39.75	
Iron		**79.6**	**10.8**	**7.87**	**12.1**	**3.1**	**17.1**	**14.1**	**47.1**	**9.4**	**1.8**	**11.4**	**8.7**	**14**	**24.3**	**15.7**	**18.2**	**6.2**	**10.6**	**15**	**25**	**12.1**	**7.69**	**14.1**	**13.8**	**20.7**	0.14	**15.7**	**10.1**	**13.4**	17.32	0.3
Magnesium		6.67	11.8	9.8	10.6	4.1	23.1	13.5	14.2	12.4	16.2	13.2	15.4	18.9	17.5	17	18	6.6	15.9	16	17	13.8	17.1	16.4	15.4	17	8.6	16.8	17.5	13.9	12.70	35.0
Manganese		**4.28**	**7.93**	**6.03**	**7.4**	**2**	**12.6**	**8.5**	**9.7**	**7.6**	**7.2**	**8.7**	**8.4**	**10.7**	**11.5**	**10.8**	**8.7**	**3.6**	**9.5**	**10**	**8.7**	**8.59**	**8.93**	**10.3**	**9.3**	**10.5**	0.125	**11**	**9.12**	**10.9**	8.17	0.3
Potassium		2.65	3.34	2.53	3.4	2	4.7	3.5	3.8	3	3.5	3.1	3.2	3.6	3.46	3.29	3.19	2.3	3.6	2.9	2.6	2.8	3.1	3.2	2.8	3.3	ND	ND	ND	5	3.01	
Sodium		3.89	5.93	4.99	5	2	10.5	6.2	6.4	5.4	7.2	6	6.8	8	6.6	5.8	7	2.8	7.1	5.5	ND	5.3	6.5	5	5.6	6.3	1.5	6.19	ND	6.59	6.27	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic			ND		0.02		0.01		**0.06**		ND	0.012		0.017			0.022	ND			ND	0.015	-	-	0.021	**0.039**	-	0.0177	0.0188	0.0164	0.01	0.025
Barium			0.16		0.13		0.25		0.2		0.18	0.15		0.2			0.19	0.075			ND	0.157	-	-	0.185	0.21	-	ND	ND	0.15	0.10	1.0
Beryllium			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0003	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.001	-	-	0.001	0.002	-	ND	ND	0.0066	0.00	0.05
Copper			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	0.0015	0.00	0.025
Mercury			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.004	-	-	0.004	0.004	-	ND	ND	0.0059	0.01	0.1
Selenium			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.008	-	ND	ND	ND	0.00	0.01
Silver			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	0.004	-	ND	ND	ND	0.00	0.05
Thallium			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	**0.0141**	ND	ND	0.00	0.0005
Zinc			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity		85.7	180	150	132	46	261	178	174	172	232	128	245	245	181	207	218	144	228	210	210	ND	225	223	227	225	92.7	236	223	217	173.0	
Biochemical Oxygen Demand			4		4.4		2.8		ND		3.4	3.2		4.6			ND	ND		7	ND	6.8	-	-	7.9	5.1	ND	ND	ND	6.1	1.8	
Boron			0.06		0.07		0.11		0.08		0.07	0.067		0.072			0.059	0.044			ND	0.07	-	-	0.05	0.07	-	ND	ND	0.0687	0.0	1.0
Chemical Oxygen Demand		11.5	9	ND	17.1	11.4	16.2	23.3	23.4	ND	ND	13.8	10	ND	16.9	ND	15.8	ND	16.8	ND	62	24.4	11.2	6.7	ND	17.3	7.5	-	35.9	46.3	13.2	
Chromium (Hexavalent)			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.0099	0.0	0.05
Chloride		3.26	7.9	5	4.8	1.5	15.9	6.5	8.8	5.6	8.9	4.8	7.4	8.1	7.02	6.4	7.28	4	6.6	6.41	5.59	4.6	6	4.9	3.8	6.3	ND	4.81	6.1	7.9	8.5	250.0
Color (PCU units)			10		10		**100**		**80**		**50**	**50**		**25**			**30**	**80**			5	**110**	-	-	**34**	**38**	-	5	10	10	52.1	15.0
Nitrate-Nitrite		0.21	ND	0.09	ND	0.19	ND	ND	ND	0.08	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	0.2	10.0
Nitrogen-Ammonia		1.47	**2.8**	**2.3**	1.4	0.76	**3.4**	1.9	1.6	**2.1**	1.9	**2.4**	**2.3**	**2.71**	**2.68**	1.96	1.9	0.92	**3.5**	**2.84**	1.98	**2.61**	**2.68**	**2.32**	**2.65**	**2.98**	ND	**3.16**	**2.4**	**2.7**	2.4	2.0
Phenols		**0.0052**	**0.002**	ND	ND	**0.02**	ND	ND	**0.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0134**	**0.0089**	ND	ND	**0.0128**	**0.0094**	**0.0151**	0.0	0.001
Sulfate		7.44	7.9	8.5	9.2	5.9	7	7.2	6.3	7.7	10.9	5.2	8	7.5	7.25	7.66	8.08	4.8	6.3	ND	ND	5.8	7	5.2	5.8	5.5	22.6	5.44	8.3	3.9	10.6	250.0
Total Organic Carbon (TOC)		2.8	6.9	3	3	2.6	8	3.9	6.2	4.2	3.9	4.6	4.9	5.2	3.6	2.9	4.1	4.8	4.5	ND	3.9	4.4	4.7	5	4.5	6.3	2.1	3.95	7.9	6.3	5.6	
Total Dissolved Solids (TDS)		126	208	180	194	67	331	208	129	191	215	195	235	271	246	256	257	94	211	230	290	220	227	250	236	232	128	263	238	213	227.8	500.0
Total Hardness		82.2	151	123	132	53.8	265	169	175	147	189	159	180	220	210	200	210	82.9	184	190	190	154	187	185	188	196	107	220	240	180	158.3	
Total Kjeldahl Nitrogen (TKN)			3.6		2.8		4.2		2		3.3	2.8		3.11			2.57	1.4		2.52	2.9	3.04	-	-	2.78	3.23	-	3.02	2.2	3.3	2.3	
Turbidity (NTU units)		4.7	**15**	**10**	**25.9**	**7.6**	**21**	**26.3**	**156**	**9.7**	**8.2**	3.6	4.5	**10**	**31**	3	1	4	**5.7**	0.1	**26.5**	0.9	**14**	0	4.2	**19.2**	2.2	1.9	**8.9**	3.5	31.6	5.0
Cyanide			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

STREAM
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene	<DL	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromobenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromochloromethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Bromodichloromethane	ND	ND	ND			ND	ND		ND		ND																								
Bromoform	ND	ND	ND			ND	ND		ND		ND																								
Bromomethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Butanone																																			
n-Butylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
sec-Butylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
tert-Butylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Carbon disulfide																																			
Carbon tetrachloride	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Chlorobenzene	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Chloroethane	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Chloroform	ND	ND	<DL			ND	ND		ND		ND																								
Chloromethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Chlorotoluene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
4-Chlorotoluene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Dibromochloromethane	ND	ND	ND			ND	ND		ND		ND																								
1,2-Dibromo-3-chloropropane	ND	ND	ND			ND	ND		ND																										
1,2-Dibromoethane	ND	ND	ND			ND	ND		ND																										
Dibromomethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3-Dichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,4-Dichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloroethane	ND	0.45	0.54			ND	ND		ND		1.0				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichloroethane	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloroethene	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
cis-1,2-Dichloroethene	ND	0.68	1.63			ND	ND		ND		1.0				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
trans-1,2-Dichloroethene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2-Dichloropropane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3-Dichloropropane	ND	ND	0.10			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
2,2-Dichloropropane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1-Dichloropropene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
cis-1-3-Dichloropropene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
trans-1,3-Dichloropropene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Ethylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
2-Hexanone																																			
Hexachlorobutadiene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Iodomethane																																			
Isopropylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
p-Isopropyltoluene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Methylene chloride	3.62	ND	<DL			1.0	3.0		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
4-Methyl-2-pentanone																																			
Naphthalene	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
n-Propylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Styrene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,1,2-Tetrachloroethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,2,2-Tetrachloroethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Tetrachloroethene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Toluene	ND	ND	<DL			ND	ND		ND		1.0				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,3-Trichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,4-Trichlorobenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,1-Trichloroethane	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,1,2-Trichloroethane	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Trichloroethene	<DL	ND	0.73			ND	ND		ND		0.8				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Trichlorofluoromethane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,3-Trichloropropane	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,2,4-Trimethylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
1,3,5-Trimethylbenzene	ND	ND	ND			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Vinyl acetate																																			
Vinyl chloride	ND	ND	<DL			ND	ND		ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
o-Xylene			ND						ND		ND				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
p-Xylene & m-Xylene			ND						ND		0.6				ND				ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND

STREAM
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum	ND								31.1																	0.15				0.12		ND			
Calcium	6.1	13.4	21.7			14.4	13.5		28.8	14.2	ND			19.9	9.94	26.6		20	18.3				16.3		14.6	13.6	21.5		13.4	25.1	17.4	33.4	22.3		17.3
Iron	0.06	**0.8**	**2.4**			0.07	ND		**51**	**0.54**	**71**			0.03	0.2	**0.79**		**2.03**	0.15				0.05		0.19	**0.44**	**0.32**		0.29	**0.65**	0.14	**0.67**	**0.89**		0.15
Magnesium	2	2.7	6.8			3.7	3.9		11.6	3.79	**132**			5.8	2.64	7.07		5.83	5.04				4.26		3.98	3.02	6.02		3.43	6.52	4.65	9.26	6.8		4.78
Manganese	0.26	**0.33**	**2**			ND	0.01		**23.2**	**0.72**	**31.5**			**0.35**	0.06	0.25		**0.94**	0.28				0.01		0.05	0.06	**0.83**		0.1	**1.11**	0.08	**0.95**	**0.59**		0.02
Potassium	1.1	0.9	1.7			1.6	1.5		5.45	1.71	5.86			1.59	1.26	1.43		1.85	1.47				1.47		1.26	1.71	1.71		1.41	1.86	1.5	2.21	1.64		1.26
Sodium	ND	1.5	5.4			2.9	2.6		5.5	1.94	4.83			2.62	1.14	4.04		3.6	2.78				2.15		1.93	0.97	2.95		1.31	2.98	1.99	5.2	3.37		2.39
PARAMETER (mg/l) TOXIC METALS																																			
Antimony	ND								**0.03**																	ND				ND		ND			
Arsenic	<DL								0.024																	ND				ND		ND			
Barium	ND								0.37																	ND				0.03		0.04			
Beryllium	ND								0																	ND				ND		ND			
Cadmium	ND	ND	ND			ND	ND		ND	ND	ND			ND	ND	ND		ND	ND				ND		ND	ND	ND		ND	ND	ND	ND	ND		ND
Chromium (Total)	ND								0.04																	ND				ND		ND			
Copper	ND								ND																	ND				ND		ND			
Lead	ND	<DL	<DL			ND	**0.040**		0.018	ND	0.007			0.002	ND	0.002		0.006	ND				ND		0.002	ND	ND		ND	0	ND	0.01	0		ND
Mercury	ND								ND																	ND				ND		ND			
Nickel	**0.15**								0.097																	ND				ND		ND			
Selenium	ND	ND				ND			ND																	ND				ND		ND			
Silver	ND								ND																	ND				ND		ND			
Thallium	<DL								ND																	ND				ND		ND			
Zinc	ND								0.13																	ND				ND		ND			
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity	64	57	85			28	38		106	44.3	97.6			55	30.2	96.3		63.6	63.9				39.8		44.9	31.9	93		24.6	157	50.7	117	70		49.3
Biochemical Oxygen Demand	4								ND																	ND				ND		ND			
Boron	ND								0.07																	ND				0.06		0.09			
Chemical Oxygen Demand	10.1	11	11.4			ND	ND		46	ND	8.7			ND	ND	ND		ND	ND				ND		ND	34.6	ND		10.6	ND	ND	10.7	ND		ND
Chromium (Hexavalent)	ND								ND																	ND				ND		ND			
Chloride	ND								ND									4.44	3.78				ND		1.97	ND	3.76		2.44	5.85	2.06	10.3	4.02		2.74
Color (PCU units)	**19**								**50**																	**100**				**20**		**45**			
Nitrate-Nitrite	0.3	<DL	<DL			ND	0.19		1.8	0.13	0.72			0.52	0.13	0.1		2.28	0.31				0.500		0.442	ND	0.41		1.86	ND	0.25	0.86	0.58		0.34
Nitrogen-Ammonia	<DL	<DL	<DL			0.2	0.1		0.04	0.54	1.02			0.54	0.15	0.53		0.32	0.32				0.06		0.1	0.03	0.51		ND	0.13	0.12	ND	0.3		0.29
Phenols	**0.001**	ND	<DL			ND	ND		ND	ND	ND			ND	**0.007**	**0.006**		ND	ND				ND		**0.005**	**0.02**	ND		ND	ND	ND	ND	ND		ND
Sulfate	22.1	5.2	16.2			40	15.0		13	15	23			19	8	13		68	7.1				13		14	16	8.1		21	30	18	23	13		14.8
Total Organic Carbon (TOC)	5.6	5	4			3	2.0		8.9	5.1	4.6			4	3.8	5.2		3.4	3.0				3.9		2.9	2.4	3.6		3.8	4.3	2.9	4.9	3		3.2
Total Dissolved Solids (TDS)	110	254	144			110	89.0		76	48	128			123	24	126		140	82				86		58	100	110		81	103	87	151	118		96
Total Hardness	23	44.6	82			51	51.0		101	55	127			116	64	112		73.9	66.4				58.2		52.8	46.4	78.5		47.6	89.5	62.6	122	83.7		62.9
Total Kjeldahl Nitrogen (TKN)	0.4								1.5																	1.55				ND		3.42			
Turbidity (NTU units)	<DL	**18**	**9**			0.4	1.0		**340**	**7.9**	**175**			**5**	2.6	0.52		**12**	2.8				1		0.56	3.4	4.3		**5.5**	0.59	0.81	2.7	2.3		0.38
Cyanide	0.013								ND																	ND				ND		ND			

STREAM
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	09/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							ND	ND	ND	3.1	4.9	2	ND	ND	ND	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.50	50	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5	
Benzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Bromobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Bromochloromethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Bromodichloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromoform				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Bromomethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
n-Butylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
sec-Butylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
tert-Butylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	0.01	60.0	
Carbon tetrachloride		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chlorobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Chloroform				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	7.0	
Chloromethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Chlorotoluene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
4-Chlorotoluene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
1,2-Dibromo-3-chloropropane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2-Dibromoethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dibromomethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichlorobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,3-Dichlorobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	3.0	
1,4-Dichlorobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	5.0	
1,2-Dichloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.6	
1,1-Dichloroethene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.07	5.0	
trans-1,2-Dichloroethene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2-Dichloropropane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
1,3-Dichloropropane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
2,2-Dichloropropane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1-Dichloropropene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
cis-1-3-Dichloropropene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
trans-1,3-Dichloropropene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.4	*
Ethylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	50.0	
Hexachlorobutadiene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Isopropylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
p-Isopropyltoluene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Methylene chloride		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	10	**
Naphthalene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	10	**
n-Propylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Styrene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,1,2-Tetrachloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2,2-Tetrachloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Tetrachloroethene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
Toluene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	5.0	
1,2,3-Trichlorobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0.00	5.0	
1,2,4-Trichlorobenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,1,1-Trichloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,1,2-Trichloroethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	1.0	
Trichloroethene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	5.0	
Trichlorofluoromethane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
1,2,3-Trichloropropane		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.04	
1,2,4-Trimethylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
1,3,5-Trimethylbenzene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.00	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.00	
Vinyl chloride		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	2.0	
o-Xylene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
p-Xylene & m-Xylene		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	5.0	

STREAM
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	09/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum					ND		ND		2.3		1	0.48		0.439				1.3			0.31	1.64	-	-	0.15	0.15	-	0.398	ND	0.533	1.48	
Calcium		8.01		21.2	29.6	7.5	29.9	22.8	25.2	17.1	21.2	18	34.5	40.4	43.1	35.9		10.7	22.1	36	42	34	29.4	33	24.2	25.8	27.9	41.3	33.7	19.3	22.71	
Iron		**0.46**		**0.74**	0.05	**0.66**	0.06	0.18	**2.5**	**1.2**	**1**	**0.42**	0.06	**0.405**	**0.407**	**0.787**		**1**	0.22	**0.52**	**0.47**	**1.74**	0.24	0.18	0.28	**0.47**	ND	**0.524**	ND	**0.963**	2.97	0.3
Magnesium		2.12		5.68	8	1.8	8.6	6.2	7.5	4.7	5.7	5.2	10.3	12	13.1	11.4		2.7	6.6	12	12	11.1	9.7	11.1	6.9	7.5	8.8	10.3	9.52	5.46	9.23	35
Manganese		0.04		**0.45**	**0.33**	0.13	0.08	0.05	**0.54**	**0.34**	0.15	0.06	0.03	0.116	0.222	**0.506**		0.1	0.075	0.27	0.13	**0.497**	0.111	0.101	0.108	0.192	0.012	**0.554**	ND	0.198	1.38	0.3
Potassium		1.86		1.51	2.4	1.4	2	1.7	2.2	1.4	2.1	1.6	1.8	2.55	2.38	2.58		1.4	1.6	2	1.7	2.2	ND	ND	1.5	1.8	ND	ND	ND	1.9	1.70	
Sodium		1.36		2.01	3.4	ND	5.2	2.5	3	1.6	2.3	1.8	5	6	5	4.3		ND	1.9	4.6	ND	4.2	3.2	3.2	1.6	1.7	3	ND	ND	3.18	2.68	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.003
Arsenic					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.025
Barium					ND		0.02		0.02		0.019	0.01		0.027				0.012			ND	0.027	-	-	0.01	0.011	-	ND	ND	0.0108	0.02	1.0
Beryllium					ND		ND		ND		ND	ND		ND				ND			ND	4E-04	-	-	ND	ND	-	ND	ND	ND	0.00	
Cadmium		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.005
Chromium (Total)					ND		ND		ND		ND	ND		ND				ND			ND	0.001	-	-	ND	ND	-	ND	ND	ND	0.00	0.05
Copper					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.2
Lead		ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	0.001	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	0.00	0.025
Mercury					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0007
Nickel					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	0.0012	0.01	0.1
Selenium					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	0.003	-	ND	ND	ND	0.00	0.01
Silver					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.05
Thallium					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.00	0.0005
Zinc					ND		ND		ND		ND	ND		ND				ND			ND	0.005	-	-	ND	ND	-	ND	ND	0.0014	0.01	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity		21.2		65	111	12.2	85.1	69.2	55.1	48.3	67.8	59	132	160	172	145		40.7	71.5	130	150	144	114	141	86.8	90.9	100	136	96	60.2	81.4	
Biochemical Oxygen Demand					ND		ND		ND		ND	ND		ND				ND		ND	6	ND	-	-	ND	ND	ND	ND	ND	1.2	0.4	
Boron					ND		0.06		ND		0.035	ND		0.069				ND			ND	0.07	-	-	ND	0.04	-	ND	ND	0.018	0.0	1.0
Chemical Oxygen Demand		ND		9	ND	ND	ND	ND	ND	15.4	ND	ND	ND	ND	ND	12.6		14.6	16.5	ND	ND	9.5	8.1	14.3	9	28.6	11.3	-	ND	23.4	6.3	
Chromium (Hexavalent)					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	-	ND	0.0072	0.0	0.05
Chloride		ND		1.9	3.2	ND	10.7	2.3	3.3	1.1	2	1.5	7.6	4.7	6.24	4.38		ND	1.3	2.61	4.26	2.8	3.8	2.5	ND	ND	2.9	2.47	ND	2.7	2.8	250
Color (PCU units)					5		10		**25**		**30**	**20**		ND				**80**			5	12	-	-	**34**	**105**	-	**15**	10	**15**	21.4	15.0
Nitrate-Nitrite		0.22		0.58	0.17	0.21	ND	0.17	0.26		0.23	0.24	ND	0.107				ND	ND	0.228	0.098	ND	ND	ND	ND	ND	ND	0.23	ND	0.28	0.3	10.0
Nitrogen-Ammonia		ND		0.1	ND	0.13	ND	ND	ND	0.13	ND	0.12	ND	ND	ND	0.28		ND	ND	ND	ND	ND	ND	ND	ND	0.051	ND	ND	ND	0.1	0.1	2.0
Phenols		ND		**0.002**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND	ND	ND	ND	ND	**0.007**	ND	**0.006**	**0.009**	**0.002**	0.0	0.001
Sulfate		6.41		15	8.8	3.8	20	12.8	9.1	8.6	17.6	8.3	5.6	4.9	4.65	8.21		4.5	10.1	ND	ND	5.2	11.6	7.4	7.5	5.5	10.1	6.65	41.2	5.9	13.7	250
Total Organic Carbon (TOC)		2.3		2.8	2.3	2.6	2.7	2.6	2.7	3.6	3.2	2.7	3.4	3.1	1.9	1.4		6.1	2.4	ND	4	3.5	3.6	3	6.1	10.3	3	3.32	4	ND	3.6	
Total Dissolved Solids (TDS)		62		115	160	41	167	108	72	164	104	90	195	168	166	144		43	80	160	170	154	134	152	112	120	128	150	148	98	117.0	500
Total Hardness		28.7		76	ND	26.1	110	82.4	93.8	62	76.4	66.3	ND	150	160	140		37.7	82.2	140	150	131	114	128	88.7	95.3	106	104	140	60	82.4	
Total Kjeldahl Nitrogen (TKN)					ND		ND		ND		ND	ND		ND				ND		ND	ND	ND	-	-	0.49	0.86	-	0.17	0.18	0.48	0.3	
Turbidity (NTU units)		**8.8**		**15**	2	**41.7**	1.3	**9.2**	**23**	**17.1**	**7.5**	3	3.9	**21**	0	**6**		**9**	4.3	**10.2**	**6.9**	**38.4**	1.7	0	**7**	-	0.76	**17.2**	2	**13.6**	17.3	5.0
Cyanide					ND		ND		ND		ND	ND		0.027				ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.
* = Applies to the sum of cis and trans-1,3-dichloropropene.
** = Guidance Value.
ND values are included in calculation of Mean and are considered equal to zero.
(Blank) or "-" = Not Analyzed.
ND = Not Detected.
<DL = Detected below method detection limit.
J = Estimated.
B = Analyte was detected in method blank.

DUPLICATE
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER VOLATILES (ug/L)																																			
Acetone																																			
Acrylonitrile																																			
Benzene																																			
Bromobenzene																																			
Bromochloromethane																																			
Bromodichloromethane																																			
Bromoform																																			
Bromomethane																																			
2-Butanone																																			
n-Butylbenzene																																			
sec-Butylbenzene																																			
tert-Butylbenzene																																			
Carbon disulfide																																			
Carbon tetrachloride																																			
Chlorobenzene																																			
Chloroethane																																			
Chloroform																																			
Chloromethane																																			
2-Chlorotoluene																																			
4-Chlorotoluene																																			
Dibromochloromethane																																			
1,2-Dibromo-3-chloropropane																																			
1,2-Dibromoethane																																			
Dibromomethane																																			
1,2-Dichlorobenzene																																			
1,3-Dichlorobenzene																																			
1,4-Dichlorobenzene																																			
trans-1,4-Dichloro-2-butene																																			
Dichlorodifluoromethane																																			
1,1-Dichloroethane																																			
1,2-Dichloroethane																																			
1,1-Dichloroethene																																			
cis-1,2-Dichloroethene																																			
trans-1,2-Dichloroethene																																			
1,2-Dichloropropane																																			
1,3-Dichloropropane																																			
2,2-Dichloropropane																																			
1,1-Dichloropropene																																			
cis-1-3-Dichloropropene																																			
trans-1,3-Dichloropropene																																			
Ethylbenzene																																			
2-Hexanone																																			
Hexachlorobutadiene																																			
Iodomethane																																			
Isopropylbenzene																																			
p-Isopropyltoluene																																			
Methylene chloride																																			
4-Methyl-2-pentanone																																			
Naphthalene																																			
n-Propylbenzene																																			
Styrene																																			
1,1,1,2-Tetrachloroethane																																			
1,1,2,2-Tetrachloroethane																																			
Tetrachloroethene																																			
Toluene																																			
1,2,3-Trichlorobenzene																																			
1,2,4-Trichlorobenzene																																			
1,1,1-Trichloroethane																																			
1,1,2-Trichloroethane																																			
Trichloroethene																																			
Trichlorofluoromethane																																			
1,2,3-Trichloropropane																																			
1,2,4-Trimethylbenzene																																			
1,3,5-Trimethylbenzene																																			
Vinyl acetate																																			
Vinyl chloride																																			
o-Xylene																																			
p-Xylene & m-Xylene																																			

DUPLICATE
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02
PARAMETER METALS (mg/L)																																			
Aluminum																																			
Calcium																																			
Iron																																			
Magnesium																																			
Manganese																																			
Potassium																																			
Sodium																																			
PARAMETER (mg/l) TOXIC METALS																																			
Antimony																																			
Arsenic																																			
Barium																																			
Beryllium																																			
Cadmium																																			
Chromium (Total)																																			
Copper																																			
Lead																																			
Mercury																																			
Nickel																																			
Selenium																																			
Silver																																			
Thallium																																			
Zinc																																			
PARAMETER (mg/l) LEACHATE INDICATORS																																			
Alkalinity																																			
Biochemical Oxygen Demand																																			
Boron																																			
Chemical Oxygen Demand																																			
Chromium (Hexavalent)																																			
Chloride																																			
Color (PCU units)																																			
Nitrate-Nitrite																																			
Nitrogen-Ammonia																																			
Phenols																																			
Sulfate																																			
Total Organic Carbon (TOC)																																			
Total Dissolved Solids (TDS)																																			
Total Hardness																																			
Total Kjeldahl Nitrogen (TKN)																																			
Turbidity (NTU units)																																			
Cyanide																																			

DUPLICATE
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																	
Acetone							3.5	ND	ND	2.9	3.1	1.9	5.7	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	1.7	ND	ND	ND	ND	ND	0.85	50.0	
Acrylonitrile							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Benzene							**13**	ND	ND	**1.4**	**1.5**	**11**	**10**	0.59	0.7	ND	**1.9**	**1.4**	0.86	ND	ND	**1.9**	ND	**7.5**	**7.2**	**1.3**	ND	ND	ND	ND	2.5104	1.0	
Bromobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
Bromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Bromodichloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	50.0	
Bromoform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	50.0	
Bromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
2-Butanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	50.0	
n-Butylbenzene							ND	ND	ND	ND	ND	0.48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.02	5.0	
sec-Butylbenzene							0.47	ND	ND	ND	ND	0.68	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.0625	5.0	
tert-Butylbenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
Carbon disulfide							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND	ND	0.0233	60.0	
Carbon tetrachloride							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Chlorobenzene							**13**	ND	ND	1.6	1.4	**15**	**12**	0.37	0.44	0.52	2.2	1.7	0.54	ND	3.2	1.6	ND	**8.6**	**9.7**	0.87	ND	ND	ND	ND	3.0308	5.0	
Chloroethane							2.2	ND	ND	ND	ND	1.6	1.4	ND	0.23	0.26	0.85	0.66	ND	ND	ND	0.69	ND	ND	0.92	0.65	ND	ND	ND	ND	0.3942	5.0	
Chloroform							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	7.0	
Chloromethane							0.3	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0238	5.0	
2-Chlorotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
4-Chlorotoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
Dibromochloromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0183	50.0	
1,2-Dibromo-3-chloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.04	
1,2-Dibromoethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Dibromomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
1,2-Dichlorobenzene							0.58	ND	ND	ND	ND	0.63	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	ND	ND	ND	ND	ND	0.0892	3.0	
1,3-Dichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	3.0	
1,4-Dichlorobenzene							**3.8**	ND	ND	0.83	0.68	**5**	**3.7**	ND	ND	ND	0.98	0.72	ND	ND	ND	0.51	ND	ND	**3.2**	0.27	ND	ND	ND	ND	0.8204	3.0	
trans-1,4-Dichloro-2-butene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Dichlorodifluoromethane							1.2	ND	ND	0.37	0.54	ND	ND	ND	0.35	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	**7.6**	0.4442	5.0	
1,1-Dichloroethane							**6**	ND	ND	4.3	**5.7**	4.6	**6.5**	**13**	**13**	**14**	2.5	1.4	**14**	ND	ND	**12**	ND	ND	4.7	**14**	ND	**7.9**	ND	**11.5**	5.6292	5.0	
1,2-Dichloroethane							ND	ND	ND	ND	ND	ND	**0.94**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0392	0.6	
1,1-Dichloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0092	5.0	
cis-1,2-Dichloroethene							3.8	ND	ND	**8.4**	**11**	3.2	1.1	**18**	**25**	**33**	**10**	4.6	**20**	ND	**8.3**	**41**	**11**	ND	ND	**54**	ND	**40**	**10.1**	**34.6**	14.046	5.0	
trans-1,2-Dichloroethene							0.63	ND	ND	0.36	0.47	0.4	0.4	ND	0.37	0.49	0.43	ND	ND	ND	ND	0.95	ND	ND	0.37	1	ND	ND	ND	ND	0.2446	5.0	
1,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	1.0	
1,3-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
2,2-Dichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
1,1-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
cis-1-3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.4	*
trans-1,3-Dichloropropene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.4	*
Ethylbenzene							**10**	ND	ND	ND	ND	**16**	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	1.1958	5.0	
2-Hexanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	50.0	
Hexachlorobutadiene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	0.5	
Iodomethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Isopropylbenzene							1.4	ND	ND	ND	ND	1.8	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.1792	5.0	
p-Isopropyltoluene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
Methylene chloride							0.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0358	5.0	
4-Methyl-2-pentanone							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0		
Naphthalene							3.5	ND	ND	ND	ND	5.3	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.5042	10.0	
n-Propylbenzene							1.3	ND	ND	ND	ND	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.1792	5.0	
Styrene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
1,1,1,2-Tetrachloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
1,1,2,2-Tetrachloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Tetrachloroethene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
Toluene							1.1	ND	ND	ND	ND	1.1	0.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42	ND	ND	ND	ND	ND	0.1279	5.0	
1,2,3-Trichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	0	5.0	
1,2,4-Trichlorobenzene							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0	5.0	
1,1,1-Trichloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0958	5.0	
1,1,2-Trichloroethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	1.0	
Trichloroethene							0.74	ND	ND	1.3	0.37	0.65	0.31	1.7	1.8	ND	2	1.1	2.1	ND	ND	2.8	ND	ND	0.32	**5.8**	ND	ND	ND	ND	0.8746	5.0	
Trichlorofluoromethane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	5.0	
1,2,3-Trichloropropane							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.04	
1,2,4-Trimethylbenzene							**5.4**	ND	ND	ND	ND	4.1	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.4458	5.0	
1,3,5-Trimethylbenzene							1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	0.05	5.0	
Vinyl acetate							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0		
Vinyl chloride							**3.2**	ND	ND	**2.2**	**3.7**	**4.6**	1.3	**2.6**	**4.4**	**4.8**	**7.2**	**2.6**	**3.5**	ND	**5.6**	**9.5**	**5.4**	ND	1.2	**6.9**	ND	ND	ND	**4.9**	3.0667	2.0	
o-Xylene							1.3	ND	ND	ND	ND	2.1	0.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	0.1804	5.0	
p-Xylene & m-Xylene							**9.3**	ND	ND	ND	0.21	**6.1**	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	ND	ND	ND	ND	0.8796	5.0	

DUPLICATE
HISTORICAL ANALYTICAL RESULTS
ISCHUA LANDFILL
OLEAN, NEW YORK

	9/02	3/03	9/03	3/04	9/04	3/05	9/05	3/06	11/06	4/07	10/07	4/08	10/08	4/09	9/09	4/10	9/10	5/11	10/11	5/12	10/12	6/13	10/13	6/14	10/14	6/15	11/15	5/16	10/16	3/17	MEAN	NYS STD
PARAMETER METALS (mg/L)																																
Aluminum							ND		ND		ND	ND		ND			ND	ND			ND	0.008	0	-	ND	ND	-	ND	ND	ND	0.0005	
Calcium							122	22.4	55.2	39	49.3	112	128	65	68.7	66.6	89.5	80.3	73.4	34	86	67.2	80	122	118	74.2	28.1	70.8	94.3	71.7	75.738	
Iron							**15.9**	**0.53**	0.096	**9.6**	**2.3**	**22.7**	**32.1**	0.241	0.202	**0.383**	**5.31**	**5.8**	**0.65**	**0.88**	**6**	**1.79**	**5.7**	**10.3**	**15.1**	**1.29**	ND	**0.311**	**3.04**	0.066	5.8454	0.3
Magnesium							23.4	5.9	17.1	12.5	16.4	22.8	26.2	20.4	21.6	21.2	13.2	12	23.7	11	13	23.2	12.7	24.1	25.5	23.7	8.8	20.2	13.8	22.3	18.113	35.0
Manganese							**12.8**	0.065	0.14	**7.6**	**7.3**	**12.6**	**13.2**	**4.82**	**2.27**	**3.03**	**8.24**	**7.2**	**7**	**0.35**	**9.2**	**9.08**	**8.08**	**11.2**	**9.62**	**7.32**	0.014	**3.69**	**7.2**	**2.04**	6.4191	0.3
Potassium							7.7	1.8	2.3	3.1	3.6	6.7	8	1.83	2.04	2.08	2.9	2.2	2.3	1.8	2.7	2.2	2.8	4.1	4.7	2.3	ND	ND	ND	2.74	2.9121	
Sodium							**21.2**	2.7	15.5	5.7	7.5	16.5	**21.2**	9.6	9.5	9.2	10.5	6.5	9.6	4.2	ND	8.5	7.4	12.4	14.4	9.1	3	9.92	11.6	7.32	9.71	20.0
PARAMETER (mg/l) TOXIC METALS																																
Antimony							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0	0.003
Arsenic							ND		ND		ND	ND		ND			0.017	0.023			ND	0.005	-	-	0.014	0.005	-	ND	0.0163	ND	0.0047	0.025
Barium							0.48	0.011	0.07		0.18	0.54	0.64	0.0892	0.0543		0.18	0.15			ND	0.091	-	-	0.283	0.072	-	ND	ND	0.0518	0.1446	1.0
Beryllium							ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	ND	-	ND	ND	ND	1E-05	
Cadmium							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0.005
Chromium (Total)							ND	ND	ND		ND	0.0055	0.0059	ND	ND		ND	ND			ND	ND	-	-	0.001	ND	-	ND	ND	ND	0.0006	0.05
Copper							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.02	ND	-	ND	ND	ND	0.0012	0.2
Lead							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.001	ND	ND	0.003	0.002	ND	0.0043	ND	ND	0.0005	0.025
Mercury							ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	ND	ND	-	ND	ND	ND	0	0.0007
Nickel							ND		ND		ND	ND		ND			ND				ND	0.005	-	-	0.005	0.005	-	ND	ND	0.0036	0.0012	0.1
Selenium							ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	0.0009	0.0
Silver							ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	0.001	0.001	-	ND	ND	ND	0.0001	0.05
Thallium							ND		ND		ND	ND		ND			ND				ND	ND	-	-	ND	ND	-	ND	ND	ND	0	0.0005
Zinc							ND		ND		ND	ND		ND			0.0466				0.063	0.004	-	-	0.011	ND	-	ND	0.0221	0.0017	0.0093	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																
Alkalinity							468	67.3	151	106	208	520	498	267	254	310	263	287	293	130	280	315	290	462	480	300	102	268	293	299	287.97	
Biochemical Oxygen Demand							6		ND		3.2	7.4		ND			ND	ND		ND	ND	4	-	-	14.2	3	ND	ND	ND	1	2.1556	
Boron							0.2		ND		0.074	0.17		0.0417			0.0534	0.052			ND	0.07	-	-	0.11	0.06	-	ND	ND	0.0457	0.0516	1.0
Chemical Oxygen Demand							67.1	ND	27.3	ND	ND	43.7	48.1	ND	ND		ND	ND	14	ND	24	10.7	14.2	29.8	12.1	12.8	9.7	-	15.1	13	14.852	
Chromium (Hexavalent)							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0	0.05
Chloride							39.4	2.3	1.7	5.6	8.9	17	29.1	12	12.6	11.1	23.4	4.1	11.1	2.87	12	9.1	7.5	8.8	12.6	10.2	2.9	8.83	18.6	12.4	11.838	250.0
Color (PCU units)							**140**		ND		**60**	**100**		**15**			0	**17.5**			5	**34**	-	-	**380**	**19**	-	5	10	10	46.794	15.0
Nitrate-Nitrite							ND	0.16	ND	0.085	ND	ND	0.3	ND	ND		ND	ND	2.7	0.224	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0064	0.1511	10.0
Nitrogen-Ammonia							**18**	0.23	ND	1.9	1.9	**9.8**	**9.8**	0.886	0.245	0.245	0.75	0.78	0.43	ND	1.56	0.795	1.35	**3.02**	**8.9**	0.674	ND	0.44	1.1	0.19	2.6248	2.0
Phenols							ND	ND	**0.016**	ND	ND	**0.0092**	**0.054**	**0.0247**	ND	ND	ND	ND	ND	ND	ND	ND	**0.0174**	**0.03**	**0.0527**	ND	ND	**0.0125**	**0.0115**	ND	0.0095	0.001
Sulfate							ND	12.8	47.9	7.2	10.9	ND	ND	6.5	7.19	6.83	7.64	8.4	6.4	ND	ND	5.3	4.2	2.6	ND	5.4	10.6	5.78	9.6	6.6	7.16	250.0
Total Organic Carbon (TOC)							14.6	2.6	ND	4.2	3.9	13.6	18.4	2.7	2	1.3	4.7	2.6	2.3	ND	ND	4.2	7.3	10.1	14.8	3.1	2.9	1.75	4.9	ND	5.0813	
Total Dissolved Solids (TDS)							**536**	111	436	179	237	446	**515**	299	296	289	326	278	303	130	350	340	312	494	483	316	115	301	319	287	320.75	500.0
Total Hardness							401	80.2	208	149	191	374	427	250	260	250	280	250	281	130	270	263	252	404	400	283	106	240	310	248	262.8	
Total Kjeldahl Nitrogen (TKN)							19.8		ND		2.7	ND		ND			1.31	1.3		ND	1.13	1.25	-	-	9.53	0.86	-	0.4	1.3	0.32	2.2167	
Turbidity (NTU units)							**22.5**	**7.4**	ND	**9.2**	**9**										0	0.3	-	-	**7.1**	ND	-	0.8	0.8	-	3.8067	5.0
Cyanide							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.

* = Applies to the sum of cis and trans-1,3-dichloropropene.

** = Guidance Value.

ND values are included in calculation of Mean and are considered equal to zero.

(Blank) or "-" = Not Analyzed.

ND = Not Detected.

<DL = Detected below method detection limit.

J = Estimated.

B = Analyte was detected in method blank.