Spring 2018
Routine Semi-Annual Monitoring Event
Water Quality Monitoring Report

Location:

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

Prepared for:

City of Olean
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LaBella Project No. 2181366
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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 2018 Routine 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 2018 Monitoring Event sampling activities on May 2 and 3, 2018. 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) Routine Parameters plus Baseline VOCs. However, MW-6A was dry, precluding sample collection from this location. Additionally, MW-9B and MW-12A contained insufficient water volume for the full parameter list, thus the parameters analyzed were limited to the following:

- MW-9B: Total organic carbon (TOC) and VOCs
- MW-12A: All parameters except alkalinity

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 was 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 1/100th 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 nephelometric turbidity units (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 with the exception of MW-11B. Total metals and dissolved metals samples were collected and analyzed from MW-11B. The dissolved metals results for MW-11B are presented in the summary data table and are utilized for the analytical result discussion in Section 5.0.

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 sand pack. However, because the static water level in some of the wells was below the top of the sand pack, 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, as identified 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 (this locations were ultimately dry). 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 was collected and analyzed. The blind field duplicate was collected from MW-8B and analyzed for Routine Parameters plus Baseline VOCs. The blind field duplicate sample was designated as "DUP" 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

Sampling 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 2018 Monitoring Event.

4.2 Quality Assurance/Quality Control

4.2.1 Duplicate

The sample designated "DUP" is a duplicate of the MW-8B sample. The duplicate results are consistent (within 1.5 times) with the sample results for MW-8B.

4.2.2 Trip Blank

The laboratory analytical results for the TRIP BLANK sample were non-detect for all VOC parameters with the exception of acetone, which was detected at a concentration of 1.5 microgram per liter (µg/L). Similar concentrations ranging from 1.2 to 3.8 µg/L were detected in MW-7A, MW-7C, MW-9B, MW-10B, MW-11B, MW-12B, MW-13, the SEEP, and the STREAM.

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 2018 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 seven samples (MW-7A, MW-8B, MW-10B, MW-11B, MW-12A, MW-12B, and SEEP): exceedances ranged in concentration from 1.0 µg/L to 7.8 µg/L.

- *Chlorobenzene* was reported above the 6NYCRR standard of 5.0 µg/L in three samples (MW-11B, MW-12A, and MW-12B) at concentrations of 10.9 µg/L, 6.1 µg/L, and 9.4 µg/L, respectively.
- *1,4-Dichlorobenzene* was reported above the 6NYCRR standard of 3.0 µg/L in one sample (MW-12B) at a concentration of 3.7 µg/L.
- *1,1-Dichloroethane* was reported above the 6NYCRR standard of 5.0 µg/L in two samples (MW-10B and MW-11B) at concentrations of 15.5 µg/L and 8.4 µg/L, respectively.
- *cis-1,2-Dichloroethene* was reported above the 6NYCRR standard of 5.0 µg/L in four samples (MW-8B, MW-10B, MW-11B, and SEEP) at concentrations of 5.3 µg/L, 54.4 µg/L, 14.0 µg/L, and 10.3 µg/L, respectively.
- *Vinyl Chloride* was reported above the 6NYCRR standard of 2.0 µg/L in five samples (MW-8B, MW-10B, MW-11B, MW-12B, and SEEP): exceedances ranged in concentration from 2.2 µg/L to 10.2 µg/L.

The concentrations of these analytes detected in these locations were within historical ranges with the exception of chlorobenzene in MW-11B. Chlorobenzene in MW-11B was detected at a concentration approximately 1.65 times greater than the previous historical maximum concentration. The previous historical maximum was detected in the Spring of 2014. Review of historical data for chlorobenzene in MW-11B indicates parameter fluctuations with generally increasing historical maximums. LaBella will continue to evaluate this location during future sampling events.

5.2.2 Inorganic Parameters

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

- *Iron* was reported above the 6NYCRR standard of 0.3 mg/L in ten samples (MW-6D, MW-7A, MW-8B, MW-10B, MW-11B, MW-12A, MW-12B, MW-13, SEEP, and STREAM): exceedances ranged in concentration from 0.357 mg/L to 35.0 mg/L.
- *Manganese* was reported above the 6NYCRR standard of 0.3 mg/L in nine samples (MW-7A, MW-7C, MW-8B, MW-10B, MW-12A, MW-12B, MW-13, SEEP, and STREAM): exceedances ranged in concentration from 0.378 mg/L to 11.6 mg/L.

The concentrations of these analytes were all within historical ranges for these monitoring points.

5.2.3 Leachate Indicator Parameters

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

- *Ammonia-Nitrogen* was reported above the 6NYCRR standard of 2.0 mg/L in five samples (MW-7A, MW-11B, MW-12A, MW-12B, and SEEP): exceedances ranged in concentration from 2.1 mg/L to 5.7 mg/L.
- *Total Phenols* was reported above the 6NYCRR standard of 0.001 mg/L in twelve samples (MW-6D, MW-7A, MW-7C, MW-8B, MW-10B, MW-11B, MW-12A, MW-12B, MW-13, MW-14, SEEP, and STREAM): exceedances ranged in concentration from 0.0034 mg/L to 0.0437 mg/L.

The concentrations of these analytes were all within historical ranges for these monitoring points.

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. Historic exceedances of the water quality standards identified in the tables in Appendix D are related to the 6NYCRR standards in effect at the time of sampling, which may not be the standards currently in effect.

6.0 SUMMARY AND CONCLUSIONS

The results of the Spring 2018 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 2018.

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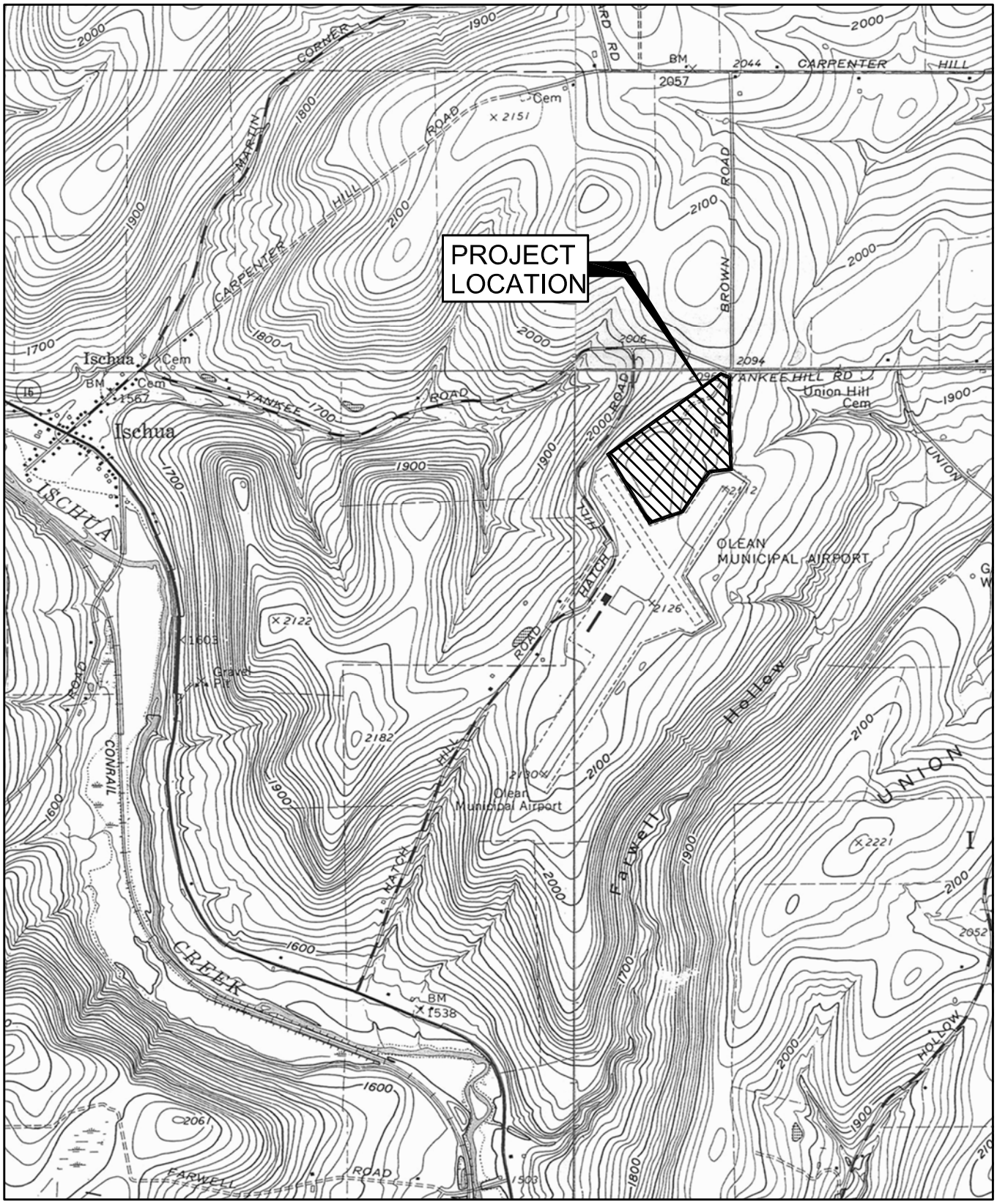
FIGURES



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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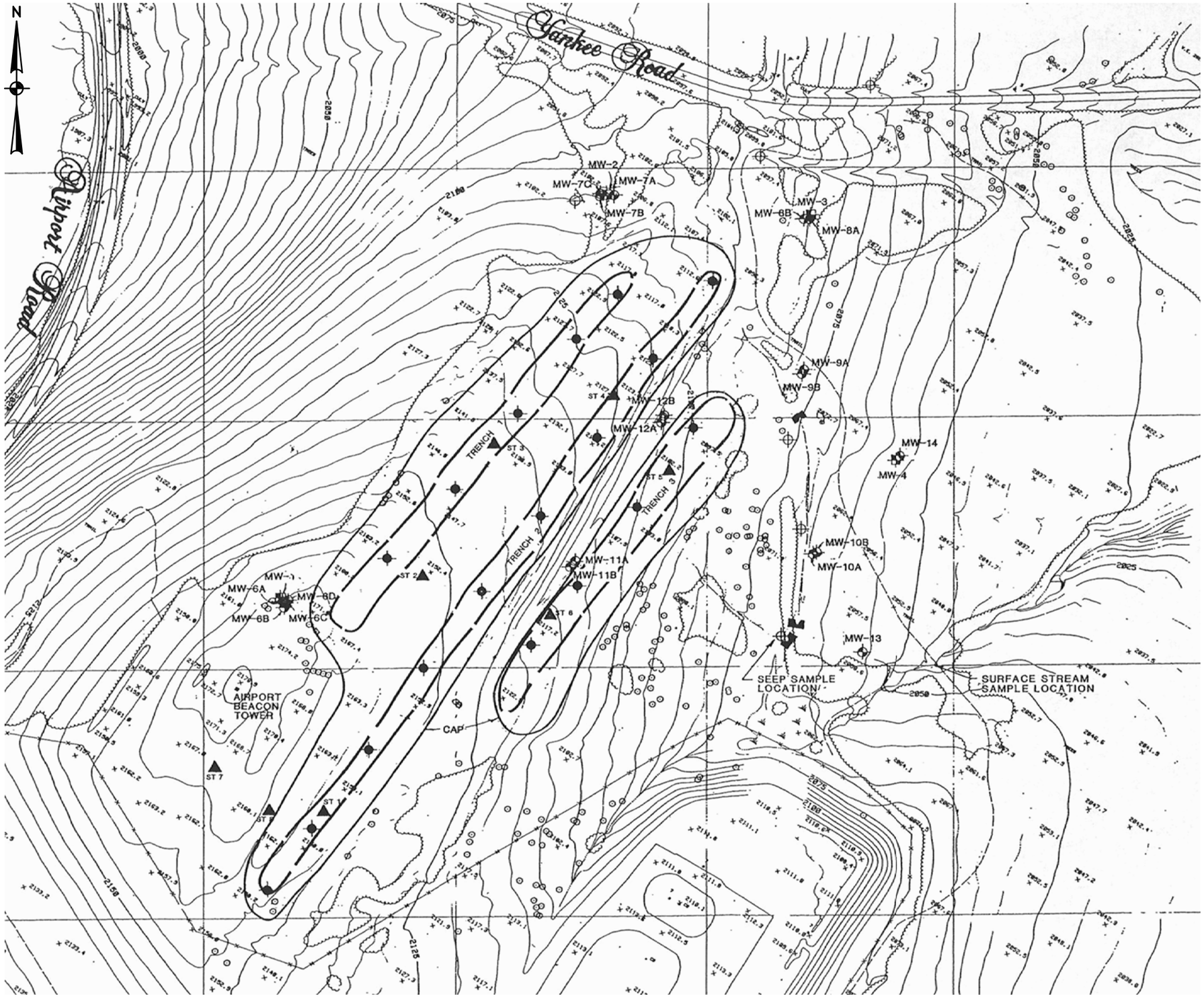
ISCHUA LANDFILL

FIGURE 1

SITE LOCATION MAP

File: J:\Olean, City of\2181366 – 2018 Ischua Landfill Monitoring\Reports\2018 Spring\Figure 1– USGS Site Location Map.dwg, Plot Date: 6/20/2018, By: BENKLEMAN, ANDREW, Plot Style: LABELLA.CTB



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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ISCHUA LANDFILL

FIGURE 2

SITE BASE MAP AND ENVIRONMENTAL MONITORING LOCATIONS

File: J:\Olean, City of\2181366 – 2018 Ischua Landfill Monitoring\Reports\2018 Spring\Figure 2 Site Map.DWG, Plot Date: 6/20/2018, By: BENKLEMAN, ANDREW, Plot Style: LABELLA.CTB

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TABLES

TABLE 1

Ischua Landfill
Spring 2018
Summary of Monitoring Well and Groundwater Depths

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
			Mar-17	Oct-17	May-18	May-18		
MW-6A	2173.1	17.19	NA	NA	NA	NA	NA	NA
MW-6D	2173.7	103.14	2081.68	NA	91.0	2082.7	NA	1.02
MW-7A	2109.3	11.64	2105.19	2100.7	5.0	2104.3	3.6	-0.89
MW-7C	2109.3	40.3	2079.34	2072.10	28.0	2081.30	9.2	1.96
MW-8B	2089.6	28.65	2075.65	2073.6	13.5	2076.1	2.5	0.45
MW-9B	2081.1	32.44	2049.82	2049.20	32.0	2049.10	-0.1	-0.72
MW-10B	2066.2	33.63	2045.67	2041.50	19.5	2046.70	5.2	1.03
MW-11B	2115.1	18.06	2102.16	2098.1	12.3	2102.8	4.7	0.64
MW-12A	2108.3	12.68	2098.71	2095.2	9.1	2099.2	4	0.49
MW-12B	2107.5	20.9	2095.63	2094.1	11.2	2096.3	2.2	0.67
MW-13	2058.7	11.4	2054.93	2054	4.2	2054.5	0.5	-0.43
MW-14	2060.9	23.44	2045.01	2042.1	16.0	2044.9	2.8	-0.11

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 2018
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	**	16.2	-59.0	23.2	17.9	58.2	11.8	-12.0	-43.2	-23.2	21.2	5.7	-48.0	-28.3	NA	mV
Field pH	SU	**	7.50	**6.45**	7.20	**6.39**	7.38	**6.43**	**6.10**	6.83	**6.35**	6.86	7.63	6.52	7.17	6.5-8.5	SU
Field Specific Conductivity	mS/cm	**	0.605	0.292	0.593	0.455	0.380	0.588	0.336	0.830	0.871	0.362	0.401	0.490	0.249	NA	mS/cm
Field Turbidity	NTU	**	**15.8**	3.50	**16.70**	**9.80**	**38.3**	0.60	**62.3**	**41.4**	**43.8**	**10.2**	**6.30**	**15.3**	**40.3**	5	NTU
Temperature	degC	**	11.4	10.0	16.6	9.2	8.4	11.8	11.2	11.4	9.5	8.0	12.8	12.9	16.4	NA	degC
Dissolved Oxygen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	4.14	7.39	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 2018
Groundwater and Surface Water Analysis Summary

TABLE 3

			MONITORING LOCATIONS																
	CAS #	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	
Collection Date			5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018			
BOD5		mg/l	-	ND	8.5	ND	ND	-	ND	7.6	8.1	13.0	ND	ND	3.5	7.7	ND	NA	mg/l	BOD5
Color		Units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	Units	Color
Hexavalent Chromium	18540-29-9	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	mg/l	Hexavalent Chromium
Nitrate-Nitrogen		mg/l	-	ND	0.073	ND	ND	-	ND	ND	0.097	ND	ND	ND	ND	0.390	ND	10	mg/l	Nitrate-Nitrogen
Alkalinity		mg/lCaCO3	-	311	206	286	207	-	269	264	-	378	144	207	201	98.6	203	NA	mg/lCaCO3	Alkalinity
Chloride		mg/l	-	2.4	3.5	5.4	2.8	-	8.0	10.8	6.1	9.1	5.1	2	6.1	2.9	2.9	250	mg/l	Chloride
COD		mg/l	-	21.6	54.3	25.7	27.7	-	31.8	84.9	101	64.5	17.5	17.5	58.4	21.6	27.7	NA	mg/l	COD
Ammonia-Nitrogen	7664-41-7	mg/l	-	0.022	**2.10**	0.03	0.62	-	0.680	**3.10**	**5.70**	**5.10**	0.068	0.02	**3.10**	0.028	0.70	2	mg/l	Ammonia-Nitrogen
Sulfate		mg/l	-	20.6	4.6	6.8	6.6	-	5.0	2.5	2.3	1.9	5.1	12.8	3.7	7.0	6.5	250	mg/l	Sulfate
Total Cyanide		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	mg/l	Total Cyanide
Total Dissolved Solids		mg/l	-	381	296	354	279	-	335	315	436	457	157	202	262	143	257	500	mg/l	Total Dissolved Solids
Total Kjeldahl Nitrogen		mg/l	-	ND	2.7	ND	0.79	-	0.88	5.7	8.9	6.7	0.14	ND	3.9	0.21	0.85	NA	mg/l	Total Kjeldahl Nitrogen
TOC		mg/l	-	13.6	18.9	13.5	15.0	15.8	12.8	20.0	25.0	20.8	14.7	10.7	18.5	15.5	13.5	NA	mg/l	TOC
Total Phenols		mg/l	-	**0.0056**	**0.0146**	**0.0034**	**0.0096**	-	**0.0096**	**0.0172**	**0.0253**	**0.0437**	**0.0034**	**0.0043**	**0.0172**	**0.0051**	**0.0123**	0.001	mg/l	Total Phenols
Aluminum		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	mg/l	Aluminum
Antimony by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	mg/l	Antimony by furnace method
Arsenic by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.025	mg/l	Arsenic by furnace method
Barium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	mg/l	Barium
Beryllium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	mg/l	Beryllium
Boron	7440-42-8	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	mg/l	Boron
Cadmium		mg/l	-	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/l	Cadmium
Calcium		mg/l	-	96.0	57.8	105	75.7	-	76.4	62.4	118	119	42.7	59.4	57.5	33.8	75.7	NA	mg/l	Calcium
Chromium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	mg/l	Chromium
Copper		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	mg/l	Copper
Iron		mg/l	-	**1.32**	**32.8**	0.064	**3.5**	-	**0.782**	**2.98**	**35.0**	**17.5**	**0.357**	0.0518	**15.9**	**0.655**	**3.44**	0.3	mg/l	Iron
Lead by furnace method		mg/l	-	0.0048	0.0025	0.0025	0.0041	-	0.004	0.0034	0.003	0.0021	ND	ND	0.0024	ND	0.0028	0.025	mg/l	Lead by furnace method
Magnesium		mg/l	-	25.9	11.6	16.7	11.0	-	24.3	24.4	14.5	22.0	12.1	14.3	17.8	9.63	11.0	35	mg/l	Magnesium
Manganese		mg/l	-	0.059	**11.6**	**1.20**	**5.32**	-	**5.87**	ND	**7.92**	**7.62**	**1.12**	0.05	**9.69**	**0.378**	**5.33**	0.3	mg/l	Manganese
Mercury		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0007	mg/l	Mercury
Nickel		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	mg/l	Nickel
Potassium		mg/l	-	2.68	18.1	1.73	2.13	-	2.42	2.82	3.35	3.97	1.09	1.78	3.8	2.95	2.03	NA	mg/l	Potassium
Selenium by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	mg/l	Selenium by furnace method
Silver		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	mg/l	Silver
Sodium		mg/l	-	4.94	4.28	6.74	6.0	-	8.99	11.2	6.92	11.2	8.94	9.46	6.16	3.61	6.02	20	mg/l	Sodium
Thallium by furnace method		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	mg/l	Thallium by furnace method
Zinc		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	mg/l	Zinc
Calculated Hardness		mg/l CaCO3	-	330	200	340	220	-	300	290	410	450	150	190	250	120	260	NA	mg/l CaCO3	Calculated Hardness

"-" - Indictes the parameter was not analyzed

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

1.00 Value exceeds regulatory standard

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.

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Ischua Landfill
Spring 2018
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	1.7	1.3	ND	1.5	1.2	3.8	20.2	2.2	1.7	ND	2.4	2.0	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	**1.3**	ND	**1.0**	ND	**1.8**	**4.4**	**5.7**	**7.8**	ND	ND	**2.2**	ND	**1.0**	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	1.7	ND	1.3	**10.9**	**6.1**	**9.4**	ND	ND	3.0	ND	1.6	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	1.6	ND	ND	ND	ND	ND	ND	ND	3.0	ug/l	1,2-Dichlorobenzene
1,3-Dichlorobenzene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ug/l	1,3-Dichlorobenzene
1,4-Dichlorobenzene		ug/l	-	ND	ND	ND	ND	ND	ND	2.4	2.6	**3.7**	ND	ND	1.3	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	-	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	Dichlorodifluoromethane
1,1-Dichloroethane	110-57-6	ug/l	-	ND	1.2	1.1	1.6	2.8	**15.5**	**8.4**	ND	4.3	ND	ND	4.7	ND	1.4	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	3.0	ND	**5.3**	ND	**54.4**	**14.0**	3.6	2.5	1.2	ND	**10.3**	ND	**5.0**	5.0	ug/l	cis-1,2-Dichloroethene
trans-1,2-Dichloroethene		ug/l	-	ND	ND	ND	ND	ND	1.2	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	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	1,3-Dichloropropane
2,2-Dichloropropane		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ug/l	2,2-Dichloropropane
1,1-Dichloropropene		ug/l	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	1.6	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	1.2	ND	1.8	2.0	ND	ND	ND	ND	1.7	ND	1.1	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	**2.4**	ND	**10.2**	**8.1**	1.7	**2.2**	ND	ND	**3.4**	ND	**2.2**	2.0	ug/l	Vinyl chloride
Total-Xylene	1330-20-7	ug/l	-	ND	ND	ND	ND	ND	ND	ND	1.2	2.9	ND	ND	ND	ND	ND	5.0	ug/l	p-Xylene & m-Xylene

1.00	Value exceeds regulatory standard

"-" - Indictes the parameter was not analyzed

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

APPENDIX A

Field Sampling Logs

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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): _____ 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	DRY					
/ 2						
/ 3						

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

Sampling Information: Date: **5/ /2018**

Sample Time: _____ Water Level(ft): _____ Sample Analysis: **Routine 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
			DRY		

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 JLD & SD

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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): 91 Height of Water Column (ft): _____

1 Well Volume [WV] (gal): 1.94 3 WV (gal): 5.8 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1100

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	96.1	7.26	11.8	0.653	3.0	Clear
1.94 / 1	147.0	7.62	10.5	0.660	30	
/2		DRY @ 3.5 gallons				
/3						

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

Sampling Information: Date: **5/ 3 /2018**

Sample Time: 5/3/18 10:30 Water Level(ft): — Sample Analysis: **Routine 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
16.2	7.50	11.4	0.605	15.8	Clear

Other Comments:

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

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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): 5.00 Height of Water Column (ft): 6.64

1 Well Volume [WV] (gal): 1.06 3 WV (gal): 3.18 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1455

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-90	6.91	8.2	0.463	3.8	Clear
1.06 / 1	-45.9	6.44	5.7	0.546	80.8	" "
2.12 / 2	-42	6.33	5.6	0.541	36.6	" "
3.18 / 3	-40.2	6.38	5.7	0.433	35.8	" "

Total Volume Purged (gal): 3.18 Complete Time: 1505 Water Level (ft): –

Sampling Information: Date: 5/ /2018

Sample Time: 1100 Water Level(ft): Sample Analysis: **Routine 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
-59	6.45	10.0	0.292	3.5	Clear

Other Comments:

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

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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: 2181366
Sampling Event: Spring 2018
Date: 5/2 /2018

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): 28.0 Height of Water Column (ft): 12.3

1 Well Volume [WV] (gal): 1.969 3 WV (gal): 5.904 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 9a.(4:50

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	201.8	7.08	10.8	0.408	8.0	
/ 1	151.8	7.67	11	6.014	21	
/ 2		DRY	@	3.5	gallons	
/ 3						

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

Sampling Information: Date: 5/3 /2018

Sample Time: 1050 Water Level(ft): — Sample Analysis: **Routine 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
23.2	7.20	16.6	0.593	16.7	Clear

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

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

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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 3 /2018

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): 12.5 Height of Water Column (ft): _____

1 Well Volume [WV] (gal): 1.94 3 WV (gal): 5.83 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1105

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	11	6.31	9.4	0.240	20.2	clear
2.00/1	14.8	6.80	9.4	0.313	48.9	slightly turbid - orange tint
4.00/2	9.7	6.43	9.4	0.456	15.8	clear
6.00/3	8.3	6.45	9.0	0.544	10.3	" "

Total Volume Purged (gal): 6.00 Complete Time: 1515 Water Level (ft): —

Sampling Information: Date: **5/ 3 /2018**

Sample Time: 1520 Water Level(ft): — Sample Analysis: **Routine 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
17.9	6.59	9.2	0.455	9.8	clear

Other Comments:

Dup here - TOC 1810

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

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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): 32.43 Water Level (ft): 32.0 Height of Water Column (ft): 0.43

1 Well Volume [WV] (gal): 0.0688 3 WV (gal): 0.2064 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1545

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	47.2	7.27	12.3	0.470	15.4	Clear
/ 1						
/ 2	DRY	@	0.03			
/ 3						

Total Volume Purged (gal): 0.03 Complete Time: 1600 Water Level (ft): —

Sampling Information: Date: 5/ 3 /2018

Sample Time: 1400 Water Level(ft): — Sample Analysis: **Routine 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
58.2	7.38	8.4	0.380	38.3	Clear

Other Comments: only got TOCs + VOCs

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

LaBella
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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 3 /2018

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): 19.5 Height of Water Column (ft): 14.19

1 Well Volume [WV] (gal): 2.27 3 WV (gal): 6.8 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1200

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	39.8	7.23	11.5	0.491	1.8	Clear
2.3 / 1	9.1	6.46	11.1	0.574	0.8	Clear
4.6 / 2	25.5	6.30	12	0.585	0.2	Clear
6.8 / 3	11.4	6.51	10.8	0.577	0.4	Clear

Total Volume Purged (gal): 6.8 Complete Time: _____ Water Level (ft): _____

Sampling Information: Date: **5/ 3 /2018**

Sample Time: 12:30 Water Level(ft): — Sample Analysis: **Routine 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
11.8	6.43	11.8	0.588	0.6	Clear

Other Comments:

MS/MSD here

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

LaBella
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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): 12.3 Height of Water Column (ft): 6.4

1 Well Volume [WV] (gal): 1.024 3 WV (gal): 3.072 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1510

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	4.6	6.27	9.2	0.232	80.3	Orange particles in water
1.024 / 1		DRY @	0.9	gallons		
/ 2						
/ 3						

Total Volume Purged (gal): 0.9 Complete Time: 1515 Water Level (ft): -

Sampling Information: Date: 5/ 3 /2018

Sample Time: 1430 Water Level(ft): - Sample Analysis: **Routine 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
-12	6.10	11.2	0.336	62.3	Slightly turbid

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

Dissolved metals here

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

LaBella
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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: 2181366
Sampling Event: Spring 2018
Date: 5/ /2018

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): 9.1 Height of Water Column (ft): 3.58

1 Well Volume [WV] (gal): 0.5728 3 WV (gal): ~~0.~~ 1.7184 5 WV (gal): [Not Applicable]

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

Purge X Field Parameters **Start Time:** 1520

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-33.4	6.24	10.3	0.82	40.7	clear - orange particles
0.57 / 1	-39.3	6.30	8.2	0.85	53.8	Slightly turbid - orange & black particles.
~~0.572~~ / 3		DRY @ 0.6 gallons				

Total Volume Purged (gal): 0.6 Complete Time: 1530 Water Level (ft): —

Sampling Information: Date: 5/ 3 /2018

Sample Time: 1445 Water Level(ft): — Sample Analysis: **Routine 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
-43.2	6.38	11.4	0.83	41.4	Clear

Other Comments:
Wait well due to turbidity All except Alkalinity (2nd 1,000mL)

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

LaBella
Powered by partnership

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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): 11.2 Height of Water Column (ft): 9.7

1 Well Volume [WV] (gal): 1.55 3 WV (gal): 4.6516 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters Start Time: 1530

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	-129.4	6.88	10.1	0.77	33.3	Clear - orange particles
1.55 / 1	-71.9	6.88	9.6	0.86	46.7	" "
3.1 / 2	-30.2	6.24	10.6	0.87	53.8	Slightly turbid - Slight sulfer odor
4.65 / 3	+26.1	6.61	10.4	0.681	28.1	Clear

Total Volume Purged (gal): 4.65 Complete Time: 1540 Water Level (ft): -

Sampling Information: Date: 5/ 3 /2018

Sample Time: 1500 Water Level(ft): - Sample Analysis: **Routine 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
-23.2	6.35	0.871	9.5	43.8	Clear

Other Comments:

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

LaBella
Powered by partnership

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: 2181366
Sampling Event: Spring 2018
Date: 5/ 3 /2018

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): 4.2 Height of Water Column (ft): 7.24

1 Well Volume [WV] (gal): 1.158 3 WV (gal): 4.024 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters **Start Time:** 1115

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	14.4	6.70	8.7	0.317	4.3	Clear
1.2 / 1	20.8	6.84	6.9	0.382	3.8	" "
2.4 / 2	26.2	6.82	7.1	0.363	14.6	" "
/ 3		DRY @ 3.0 gallons				

Total Volume Purged (gal): 3.0 Complete Time: 1130 Water Level (ft): —

Sampling Information: Date: 5/ /2018

Sample Time: 1340 Water Level(ft): _____ Sample Analysis: **Routine 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
21.2	6.86	8.0	0.362	10.2	

Other Comments:
Requires some wait time after purging.

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

LaBella
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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: 2181366
Sampling Event: Spring 2018
Date: 5/ 2 /2018

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): 16.0 Height of Water Column (ft): 7.45

1 Well Volume [WV] (gal): 1.192 3 WV (gal): 3.576 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer X / Other:

Purge X Field Parameters Start Time: 1150

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start=_____gal] Characteristics
Initial / 0	130.6	8.63	11.2	0.392	5.3	Clear
1.2 / 1	107.4	8.48	9.4	0.377	8.1	Clear
2.4 / 2	DRY @ 1.5 gallons					
/ 3						

Total Volume Purged (gal): 1.5 Complete Time: 1200 Water Level (ft): —

Sampling Information: Date: 5/ 3 /2018

Sample Time: 1150 Water Level(ft): — Sample Analysis: **Routine 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
5.7	7.63	12.8	0.401	6.3	Clear

Other Comments:
Wait well- very slow recharge rate. Must come back several times to obtain samples. Well casing is often full of bees.

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

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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: 2181366
Sampling Event: Spring 2018
Date: **5/ 3 /2018**

Purge not required on this sample- Surface water

Sampling Information: Date: **5/ 3 /2018**

Sample Time: 1130 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 **[For SW & SEEP Only: D.O. = 4.14 mg/L]**
-48	6.52	12.9	0.490	15.3	Clear

Other Comments: Noticeable Green areas around Seep.

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

LaBella
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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: 2181366
Sampling Event: Spring 2018
Date: **5/ 3 /2018**

Purge not required on this sample- Surface water

Sampling Information: Date: **5/ 3 /2018**

Sample Time: 1145 Water Level(ft): — Sample Analysis: **Routine 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 **[For SW & SEEP Only: D.O. = 7.39 mg/L]**
-28.3	7.17	16.4	0.249	40.3	Clear

Other Comments:

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

APPENDIX B

Chain-of-Custody

WO#:7050533

7050533

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Required Client Information:		Required Project Information:		Section C Invoice Information:	
Company:	LaBella Associates	Report To:	Andrew Benkleman	Attention:	
Address:	300 Pear Street	Copy To:		Company Name:	
Buffalo, NY 14201				Address:	
Email:	abenkleman@labellapc.com	Purchase Order #:		Pace Quote:	
Phone:	(716) 551-6281 Fax:	Project Name:	Ischua Landfill	Pace Project Manager:	jennifer.aracri@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	5498 Line 1 & 4

Regulatory Agency	
State / Location	NY

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BOD, BR,Cl,SO4,NO2,TDS	Alkalinity	COD,NH3,NO3,Phenols, TH	TOC	Metals +Hardness	Dissolved Metals by 200.7 (	Volatiles by 8260	Residual Chlorine (Y/N)	
1	MW-6A	WT																	x	x	x	x	x				
2	MW-6D	WT		5/3/18	10:30														x	x	x	x	x		X		001
3	MW-7A	WT		5/3/18	1100														x	x	x	x	x		X		002
4	MW-7C	WT		5/3/18	1050														x	x	x	x	x		X		003
5	MW-8B	WT		5/3/18	1350														x	x	x	x	x		X		004
6	MW-9B	WT		5/3/18	1400														x	x	x	x	x		X		005
7	MW-10B	WT		5/3/18	1230														x	x	x	x	x		X		MS/MSD here 006
8	MW-11B	WT		5/3/18	1430														x	x	x	x	x		X		007
9	MW-12A	WT		5/3/18	1445														x	x	x	x	x		X		008
10	MW-12B	WT		5/3/18	1300														x	x	x	x	x		X		009
11	MW-13	WT		5/3/18	1340														x	x	x	x	x		X		010
12	MW-14	WT		5/3/18	11:50														x	x	x	x	x		X		011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Part 360 Routine +Easeline VOCs		5/3/18	1730	Fedex	5/4/18	9:40	5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed:				

WO#:7050533

PM: JSA Due Date: 05/18/18
CLIENT: LBA-B

CHAIN-OF-CUSTODY / Analytical Request Document

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

Required Client Information:		Required Project Information:	Section C Invoice Information:
Company:	LaBella Associates	Report To: Andrew Benkleman	Attention:
Address:	300 Pearl Street	Copy To:	Company Name:
	Buffalo, NY 14201		Address:
Email:	abenkleman@labellapc.com	Purchase Order #:	Pace Quote:
Phone:	(716) 551-6281 Fax:	Project Name: Ischua Landfill	Pace Project Manager: jennifer.aracri@pacelabs.com,
Requested Due Date:		Project #:	Pace Profile #: 5498 Line 1 & 4

Regulatory Agency	
State / Location	NY

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	BOD, BR,Cl,SO4,NO2,TDS	Alkalinity	COD,NH3,NO3,Phenols, TI	TOC	Metals +Hardness	Dissolved Metals by 200.7 (	Volatiles by 82	Residual Chlorine (Y/N)	
13	SEEP	WT		5/31/18	11:30														X	X	X	X	X		X		012
14	STREAM	WT		5/31/18	11:45														X	X	X	X	X		X		013
15	DUP	WT		5/31/18	15:10														X	X	X	X	X				014
16	NoClientID1	WT																	X	X	X	X	X	X			
17	NoClientID2	WT																	X	X	X	X	X	X			
18	NoClientID3	WT																						X			
19	NoClientID4	WT																						X			
20	TRIP Blank			5/31/18																					X		015
21																											
22																											
23																											
24																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Part 360 Routine +Easeline VOCs	Jason A Donde	5/31/18	1730	Fedex Darnell Dillon	6/1/18	9:40	5.9	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:	DATE Signed:					

APPENDIX C

Analytical Laboratory Report

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

May 23, 2018

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

RE: Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Dear Andrew Benkleman:
Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2018. 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

cc: Shannon Dalton, LaBella Associates

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

CERTIFICATIONS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

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
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 6010C**
Description: 6010 MET ICP
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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.

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 - 5/3
Pace Project No.: 7050533

Method: **EPA 6010C**
Description: 6010 MET ICP, Dissolved
Client: LaBella Associates
Date: May 23, 2018

General Information:
1 sample was 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.

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: 66862

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7050533007

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

- MS (Lab ID: 306591)
  - Manganese, Dissolved

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 - 5/3
Pace Project No.: 7050533

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: May 23, 2018

General Information:
15 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: 66574

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- DUP (Lab ID: 7050533014)
  - 1,1-Dichloroethane
- LCS (Lab ID: 305214)
  - 1,1-Dichloroethane
  - Acrylonitrile
  - Allyl chloride
  - Chloroform
  - Chloroprene
  - Methacrylonitrile
  - Propionitrile
- MS (Lab ID: 307142)
  - 1,1-Dichloroethane
  - Acrylonitrile
  - Allyl chloride
  - Chloroform
  - Chloroprene
  - Methacrylonitrile
  - Propionitrile
- MSD (Lab ID: 307143)
  - 1,1-Dichloroethane
  - Acrylonitrile
  - Allyl chloride
  - Chloroform
  - Chloroprene
  - Methacrylonitrile
  - Propionitrile
- MW-10B (Lab ID: 7050533006)
  - 1,1-Dichloroethane
- MW-11B (Lab ID: 7050533007)
  - 1,1-Dichloroethane

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: May 23, 2018

QC Batch: 66574

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- MW-12B (Lab ID: 7050533009)
  - 1,1-Dichloroethane
- MW-7A (Lab ID: 7050533002)
  - 1,1-Dichloroethane
- MW-7C (Lab ID: 7050533003)
  - 1,1-Dichloroethane
- MW-8B (Lab ID: 7050533004)
  - 1,1-Dichloroethane
- MW-9B (Lab ID: 7050533005)
  - 1,1-Dichloroethane
- SEEP (Lab ID: 7050533012)
  - 1,1-Dichloroethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 305213)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- DUP (Lab ID: 7050533014)
  - Bromoform
  - Dibromochloromethane
- LCS (Lab ID: 305214)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MS (Lab ID: 307142)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MSD (Lab ID: 307143)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-10B (Lab ID: 7050533006)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-11B (Lab ID: 7050533007)
  - Bromoform
  - Dibromochloromethane

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: May 23, 2018

QC Batch: 66574

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- Dichlorodifluoromethane
- Isobutanol
- MW-12A (Lab ID: 7050533008)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-12B (Lab ID: 7050533009)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-13 (Lab ID: 7050533010)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-14 (Lab ID: 7050533011)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-6D (Lab ID: 7050533001)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-7A (Lab ID: 7050533002)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-7C (Lab ID: 7050533003)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-8B (Lab ID: 7050533004)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- MW-9B (Lab ID: 7050533005)
  - Bromoform

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: LaBella Associates
Date: May 23, 2018

QC Batch: 66574

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- Dibromochloromethane
- Dichlorodifluoromethane
- Isobutanol

- SEEP (Lab ID: 7050533012)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- STREAM (Lab ID: 7050533013)
  - Bromoform
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Isobutanol
- TRIP BLANK (Lab ID: 7050533015)
  - Bromoform
  - Dibromochloromethane

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.

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

QC Batch: 66574

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7050533006

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

- MS (Lab ID: 307142)
  - Bromoform
  - cis-1,2-Dichloroethene
- MSD (Lab ID: 307143)
  - cis-1,2-Dichloroethene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 8260**
Description: TIC MSV Water
Client: LaBella Associates
Date: May 23, 2018

General Information:
10 samples were analyzed for EPA 8260. 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.

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.

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

Additional Comments:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **SM22 2320B**
Description: 2320B Alkalinity
Client: LaBella Associates
Date: May 23, 2018

General Information:
12 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: 67422

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7050533006

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

- MS (Lab ID: 309159)
  - Alkalinity, Total as CaCO3

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

QC Batch: 67422

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 309158)
  - Alkalinity, Total as CaCO3

QC Batch: 67668

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 310125)
  - Alkalinity, Total as CaCO3

Additional Comments:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **SM22 2340C**
Description: 2340C Hardness, Total
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **SM22 2540C**
Description: 2540C Total Dissolved Solids
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 410.4**
Description: 410.4 COD
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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: 66884

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 306620)
  - Chemical Oxygen Demand

Additional Comments:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **SM22 5210B**
Description: 5210B BOD, 5 day
Client: LaBella Associates
Date: May 23, 2018

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.

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:

Analyte Comments:

QC Batch: 66243

B1: Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.

- STREAM (Lab ID: 7050533013)
  - BOD, 5 day

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 351.2**
Description: 351.2 Total Kjeldahl Nitrogen
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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: 67804

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7050533006,7050570002

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

- MS (Lab ID: 310814)
  - 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 - 5/3
Pace Project No.: 7050533

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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: 66214

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 7050533006,7050558001

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

- MS (Lab ID: 303576)
  - Nitrite as N
- MS (Lab ID: 303578)
  - Nitrite as N

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 - 5/3
Pace Project No.: 7050533

Method: **EPA 420.1**
Description: Phenolics, Total Recoverable
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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:

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PROJECT NARRATIVE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Method: **SM22 4500 NH3 H**
Description: 4500 Ammonia Water
Client: LaBella Associates
Date: May 23, 2018

General Information:
13 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.

QC Batch: 67896

B: Analyte was detected in the associated method blank.
- BLANK for HBN 67896 [WETA/1095 (Lab ID: 311028)
  - Nitrogen, Ammonia

QC Batch: 67897

B: Analyte was detected in the associated method blank.
- BLANK for HBN 67897 [WETA/1095 (Lab ID: 311035)
  - Nitrogen, Ammonia

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 - 5/3
Pace Project No.: 7050533

Method: **SM22 5310B**
Description: 5310B TOC as NPOC
Client: LaBella Associates
Date: May 23, 2018

General Information:
14 samples were analyzed for SM22 5310B. 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:

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

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ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-6D **Lab ID: 7050533001** Collected: 05/03/18 10:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 00:00	7440-43-9	
Calcium	**96000**	ug/L	200	1	05/09/18 09:54	05/10/18 00:00	7440-70-2	
Iron	**1320**	ug/L	20.0	1	05/09/18 09:54	05/10/18 00:00	7439-89-6	
Lead	**4.8J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 00:00	7439-92-1	
Magnesium	**25900**	ug/L	200	1	05/09/18 09:54	05/10/18 00:00	7439-95-4	
Manganese	**59.0**	ug/L	10.0	1	05/09/18 09:54	05/10/18 00:00	7439-96-5	
Potassium	**2680J**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:00	7440-09-7	
Sodium	**4940J**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:00	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 18:13	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 18:13	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 18:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 18:13	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/08/18 18:13	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 18:13	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 18:13	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 18:13	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:13	107-05-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 18:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 18:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-6D **Lab ID: 7050533001** Collected: 05/03/18 10:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 18:13	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 18:13	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 18:13	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 18:13	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 18:13	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 18:13	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:13	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 18:13	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 18:13	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	68-153	1		05/08/18 18:13	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 18:13	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 18:13	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/11/18 20:07		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**311**	mg/L	1.0	1		05/15/18 10:45		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**330**	mg/L	5.0	1		05/14/18 15:48		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**381**	mg/L	10.0	1		05/09/18 15:41		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**21.6**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:57		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-6D **Lab ID: 7050533001** Collected: 05/03/18 10:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<4.0**	mg/L	4.0	2	05/05/18 10:12	05/10/18 11:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.048J**	mg/L	0.50	1		05/14/18 15:07	24959-67-9	
Chloride	**2.4**	mg/L	2.0	1		05/14/18 15:07	16887-00-6	
Sulfate	**20.6**	mg/L	5.0	1		05/14/18 15:07	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	05/17/18 06:14	05/17/18 12:54	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 22:49	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 22:49	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 19:59	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**5.6**	ug/L	5.0	1	05/10/18 12:00	05/10/18 15:14		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.022J**	mg/L	0.10	1		05/17/18 14:11	7664-41-7	B
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**13.6**	mg/L	1.0	1		05/18/18 17:00	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
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ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-7A **Lab ID: 7050533002** Collected: 05/03/18 11:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 00:06	7440-43-9	
Calcium	**57800**	ug/L	200	1	05/09/18 09:54	05/10/18 00:06	7440-70-2	
Iron	**32800**	ug/L	20.0	1	05/09/18 09:54	05/10/18 00:06	7439-89-6	
Lead	**2.5J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 00:06	7439-92-1	
Magnesium	**11600**	ug/L	200	1	05/09/18 09:54	05/10/18 00:06	7439-95-4	
Manganese	**11600**	ug/L	10.0	1	05/09/18 09:54	05/10/18 00:06	7439-96-5	
Potassium	**18100**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:06	7440-09-7	
Sodium	**4280J**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:06	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	79-00-5	
1,1-Dichloroethane	**1.2**	ug/L	1.0	1		05/08/18 18:31	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 18:31	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 18:31	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 18:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 18:31	108-10-1	
Acetone	**1.7J**	ug/L	5.0	1		05/08/18 18:31	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 18:31	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 18:31	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 18:31	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:31	107-05-1	
Benzene	**1.3**	ug/L	1.0	1		05/08/18 18:31	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 18:31	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 18:31	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-7A **Lab ID: 7050533002** Collected: 05/03/18 11:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	74-95-3	
Dichlorodifluoromethane	**1.4**	ug/L	1.0	1		05/08/18 18:31	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 18:31	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 18:31	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 18:31	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 18:31	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 18:31	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 18:31	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:31	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 18:31	1330-20-7	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	1		05/08/18 18:31	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 18:31	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		05/08/18 18:31	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 18:31	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 18:31	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/11/18 20:09		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**206**	mg/L	1.0	1		05/15/18 10:54		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**200**	mg/L	5.0	1		05/14/18 15:49		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**296**	mg/L	10.0	1		05/09/18 15:43		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**54.3**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-7A **Lab ID: 7050533002** Collected: 05/03/18 11:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**8.5**	mg/L	4.0	2	05/05/18 10:33	05/10/18 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.23J**	mg/L	0.50	1		05/14/18 15:24	24959-67-9	
Chloride	**3.5**	mg/L	2.0	1		05/14/18 15:24	16887-00-6	
Sulfate	**4.6J**	mg/L	5.0	1		05/14/18 15:24	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**2.7**	mg/L	0.10	1	05/17/18 06:14	05/17/18 12:55	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.073**	mg/L	0.050	1		05/04/18 22:52	14797-55-8	
Nitrate-Nitrite (as N)	**0.073**	mg/L	0.050	1		05/04/18 22:52	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:03	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**14.6**	ug/L	5.0	1	05/10/18 12:00	05/10/18 15:15		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**2.1**	mg/L	0.10	1		05/17/18 14:13	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**18.9**	mg/L	1.0	1		05/18/18 17:11	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 - 5/3
Pace Project No.: 7050533

Sample: MW-7C **Lab ID: 7050533003** Collected: 05/03/18 10:50 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 00:11	7440-43-9	
Calcium	**105000**	ug/L	200	1	05/09/18 09:54	05/10/18 00:11	7440-70-2	
Iron	**64.3**	ug/L	20.0	1	05/09/18 09:54	05/10/18 00:11	7439-89-6	
Lead	**2.5J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 00:11	7439-92-1	
Magnesium	**16700**	ug/L	200	1	05/09/18 09:54	05/10/18 00:11	7439-95-4	
Manganese	**1200**	ug/L	10.0	1	05/09/18 09:54	05/10/18 00:11	7439-96-5	
Potassium	**1730J**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:11	7440-09-7	
Sodium	**6740**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:11	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	79-00-5	
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		05/08/18 18:49	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 18:49	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 18:49	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 18:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 18:49	108-10-1	
Acetone	**1.3J**	ug/L	5.0	1		05/08/18 18:49	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 18:49	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 18:49	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 18:49	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:49	107-05-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 18:49	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 18:49	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-7C **Lab ID: 7050533003** Collected: 05/03/18 10:50 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 18:49	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 18:49	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 18:49	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 18:49	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 18:49	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 18:49	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 18:49	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 18:49	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 18:49	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 18:49	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		05/08/18 18:49	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/08/18 18:49	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/11/18 20:10		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**286**	mg/L	1.0	1		05/15/18 11:01		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**340**	mg/L	5.0	1		05/14/18 15:51		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**354**	mg/L	10.0	1		05/09/18 15:43		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**25.7**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:58		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-7C **Lab ID: 7050533003** Collected: 05/03/18 10:50 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	05/05/18 10:33	05/10/18 11:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.21J**	mg/L	0.50	1		05/14/18 15:41	24959-67-9	
Chloride	**5.4**	mg/L	2.0	1		05/14/18 15:41	16887-00-6	
Sulfate	**6.8**	mg/L	5.0	1		05/14/18 15:41	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	05/17/18 06:14	05/17/18 12:55	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 22:56	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 22:56	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:04	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**3.4J**	ug/L	5.0	1	05/10/18 12:00	05/10/18 15:16		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.030J**	mg/L	0.10	1		05/17/18 14:14	7664-41-7	B
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**13.5**	mg/L	1.0	1		05/18/18 17:23	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-8B **Lab ID: 7050533004** Collected: 05/03/18 15:20 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 00:17	7440-43-9	
Calcium	**75700**	ug/L	200	1	05/09/18 09:54	05/10/18 00:17	7440-70-2	
Iron	**3500**	ug/L	20.0	1	05/09/18 09:54	05/10/18 00:17	7439-89-6	
Lead	**4.1J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 00:17	7439-92-1	
Magnesium	**11000**	ug/L	200	1	05/09/18 09:54	05/10/18 00:17	7439-95-4	
Manganese	**5320**	ug/L	10.0	1	05/09/18 09:54	05/10/18 00:17	7439-96-5	
Potassium	**2130J**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:17	7440-09-7	
Sodium	**6000**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:17	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	79-00-5	
1,1-Dichloroethane	**1.6**	ug/L	1.0	1		05/08/18 19:07	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 19:07	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 19:07	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 19:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 19:07	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/08/18 19:07	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 19:07	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 19:07	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 19:07	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:07	107-05-1	
Benzene	**1.0**	ug/L	1.0	1		05/08/18 19:07	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 19:07	56-23-5	
Chlorobenzene	**1.7**	ug/L	1.0	1		05/08/18 19:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 19:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-8B **Lab ID: 7050533004** Collected: 05/03/18 15:20 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 19:07	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 19:07	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 19:07	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 19:07	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 19:07	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	108-88-3	
Trichloroethene	**1.2**	ug/L	1.0	1		05/08/18 19:07	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:07	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 19:07	108-05-4	
Vinyl chloride	**2.4**	ug/L	1.0	1		05/08/18 19:07	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 19:07	1330-20-7	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	1		05/08/18 19:07	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 19:07	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 19:07	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		05/08/18 19:07	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 19:07	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:27		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**207**	mg/L	1.0	1		05/15/18 11:10		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**220**	mg/L	5.0	1		05/14/18 15:53		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**279**	mg/L	10.0	1		05/09/18 15:44		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**27.7**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:58		

REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-8B **Lab ID: 7050533004** Collected: 05/03/18 15:20 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	05/05/18 10:36	05/10/18 11:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.15J**	mg/L	0.50	1		05/14/18 15:58	24959-67-9	
Chloride	**2.8**	mg/L	2.0	1		05/14/18 15:58	16887-00-6	
Sulfate	**6.6**	mg/L	5.0	1		05/14/18 15:58	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.79**	mg/L	0.10	1	05/17/18 06:14	05/17/18 12:56	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 22:57	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 22:57	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:05	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**9.6**	ug/L	5.0	1	05/10/18 12:00	05/10/18 15:16		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.62**	mg/L	0.10	1		05/17/18 14:15	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**15.0**	mg/L	1.0	1		05/18/18 17:34	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 - 5/3
Pace Project No.: 7050533

Sample: MW-9B **Lab ID: 7050533005** Collected: 05/03/18 14:00 Received: 05/04/18 09:40 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	**<1.0**	ug/L	1.0	1		05/08/18 19:25	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	79-00-5	
1,1-Dichloroethane	**2.8**	ug/L	1.0	1		05/08/18 19:25	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 19:25	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 19:25	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 19:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 19:25	108-10-1	
Acetone	**1.5J**	ug/L	5.0	1		05/08/18 19:25	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 19:25	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 19:25	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 19:25	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:25	107-05-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 19:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 19:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	126-99-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 19:25	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 19:25	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 19:25	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 19:25	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-09-2	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-9B **Lab ID: 7050533005** Collected: 05/03/18 14:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 19:25	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 19:25	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:25	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 19:25	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 19:25	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		05/08/18 19:25	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 19:25	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 19:25	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:27		
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**15.8**	mg/L	1.0	1		05/18/18 17:45	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 - 5/3
Pace Project No.: 7050533

Sample: MW-10B **Lab ID: 7050533006** Collected: 05/03/18 12:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 00:33	7440-43-9	
Calcium	**76400**	ug/L	200	1	05/09/18 09:54	05/10/18 00:33	7440-70-2	
Iron	**782**	ug/L	20.0	1	05/09/18 09:54	05/10/18 00:33	7439-89-6	
Lead	**4.0J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 00:33	7439-92-1	
Magnesium	**24300**	ug/L	200	1	05/09/18 09:54	05/10/18 00:33	7439-95-4	
Manganese	**5870**	ug/L	10.0	1	05/09/18 09:54	05/10/18 00:33	7439-96-5	
Potassium	**2420J**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:33	7440-09-7	
Sodium	**8990**	ug/L	5000	1	05/09/18 09:54	05/10/18 00:33	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	79-00-5	
1,1-Dichloroethane	**15.5**	ug/L	1.0	1		05/08/18 22:07	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 22:07	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 22:07	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 22:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 22:07	108-10-1	
Acetone	**1.2J**	ug/L	5.0	1		05/08/18 22:07	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 22:07	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 22:07	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 22:07	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 22:07	107-05-1	
Benzene	**1.8**	ug/L	1.0	1		05/08/18 22:07	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-25-2	CL,M1
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 22:07	56-23-5	
Chlorobenzene	**1.3**	ug/L	1.0	1		05/08/18 22:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 22:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-10B **Lab ID: 7050533006** Collected: 05/03/18 12:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 22:07	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 22:07	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 22:07	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 22:07	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 22:07	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	108-88-3	
Trichloroethene	**1.8**	ug/L	1.0	1		05/08/18 22:07	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 22:07	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 22:07	108-05-4	
Vinyl chloride	**10.2**	ug/L	1.0	1		05/08/18 22:07	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 22:07	1330-20-7	
cis-1,2-Dichloroethene	**54.4**	ug/L	1.0	1		05/08/18 22:07	156-59-2	M1
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	10061-01-5	
m&p-Xylene	**<2.0**	ug/L	2.0	1		05/08/18 22:07	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	95-47-6	
trans-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		05/08/18 22:07	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 22:07	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 22:07	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		05/08/18 22:07	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/08/18 22:07	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**7.5JJJJJ**	ug/L		1		05/08/18 22:07		N
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**269**	mg/L	1.0	1		05/15/18 11:17		D6,M1
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**300**	mg/L	5.0	1		05/14/18 15:54		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**335**	mg/L	10.0	1		05/09/18 15:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**31.8**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:58		D6

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-10B **Lab ID: 7050533006** Collected: 05/03/18 12:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	05/05/18 10:36	05/10/18 11:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.26J**	mg/L	0.50	1		05/14/18 16:14	24959-67-9	
Chloride	**8.0**	mg/L	2.0	1		05/14/18 16:14	16887-00-6	
Sulfate	**5.0**	mg/L	5.0	1		05/14/18 16:14	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.88**	mg/L	0.10	1	05/17/18 06:14	05/17/18 12:57	7727-37-9	M1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 22:58	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 22:58	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:06	14797-65-0	M1
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**9.6**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:26		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.68**	mg/L	0.10	1		05/17/18 14:16	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**12.8**	mg/L	1.0	1		05/18/18 17:57	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 - 5/3
Pace Project No.: 7050533

Sample: MW-11B **Lab ID: 7050533007** Collected: 05/03/18 14:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:01	7440-43-9	
Calcium	**62500**	ug/L	200	1	05/09/18 09:54	05/10/18 01:01	7440-70-2	
Iron	**33000**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:01	7439-89-6	
Lead	**2.5J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:01	7439-92-1	
Magnesium	**23900**	ug/L	200	1	05/09/18 09:54	05/10/18 01:01	7439-95-4	
Manganese	**13200**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:01	7439-96-5	
Potassium	**3840J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:01	7440-09-7	
Sodium	**10400**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:01	7440-23-5	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010C							
Cadmium, Dissolved	**<2.5**	ug/L	2.5	1		05/10/18 22:58	7440-43-9	
Calcium, Dissolved	**62400**	ug/L	200	1		05/10/18 22:58	7440-70-2	
Iron, Dissolved	**2980**	ug/L	100	1		05/10/18 22:58	7439-89-6	
Lead, Dissolved	**3.4J**	ug/L	5.0	1		05/10/18 22:58	7439-92-1	
Magnesium, Dissolved	**24400**	ug/L	200	1		05/10/18 22:58	7439-95-4	
Manganese, Dissolved	**<10.0**	ug/L	10.0	1		05/10/18 22:58	7439-96-5	M1
Potassium, Dissolved	**2820J**	ug/L	5000	1		05/10/18 22:58	7440-09-7	
Sodium, Dissolved	**11200**	ug/L	5000	1		05/10/18 22:58	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	79-00-5	
1,1-Dichloroethane	**8.4**	ug/L	1.0	1		05/08/18 19:43	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 19:43	106-93-4	
1,2-Dichlorobenzene	**1.6**	ug/L	1.0	1		05/08/18 19:43	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	142-28-9	
1,4-Dichlorobenzene	**2.4**	ug/L	1.0	1		05/08/18 19:43	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 19:43	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 19:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 19:43	108-10-1	
Acetone	**3.8J**	ug/L	5.0	1		05/08/18 19:43	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 19:43	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 19:43	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 19:43	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:43	107-05-1	
Benzene	**4.4**	ug/L	1.0	1		05/08/18 19:43	71-43-2	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-11B **Lab ID: 7050533007** Collected: 05/03/18 14:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 19:43	56-23-5	
Chlorobenzene	**10.9**	ug/L	1.0	1		05/08/18 19:43	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 19:43	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	126-99-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 19:43	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 19:43	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 19:43	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 19:43	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 19:43	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	108-88-3	
Trichloroethene	**2.0**	ug/L	1.0	1		05/08/18 19:43	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 19:43	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 19:43	108-05-4	
Vinyl chloride	**8.1**	ug/L	1.0	1		05/08/18 19:43	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 19:43	1330-20-7	
cis-1,2-Dichloroethene	**14.0**	ug/L	1.0	1		05/08/18 19:43	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 19:43	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 19:43	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 19:43	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/08/18 19:43	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**10.3JJJJJ**	ug/L		1		05/08/18 19:43		N
Ethyl ether	**6.8JJJJJ**	ug/L		1		05/08/18 19:43		N
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**264**	mg/L	1.0	1		05/15/18 11:54		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-11B **Lab ID: 7050533007** Collected: 05/03/18 14:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**290**	mg/L	5.0	1		05/14/18 15:58		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**315**	mg/L	10.0	1		05/09/18 15:47		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**84.9**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:59		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**7.6**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.33J**	mg/L	0.50	1		05/14/18 17:38	24959-67-9	
Chloride	**10.8**	mg/L	2.0	1		05/14/18 17:38	16887-00-6	
Sulfate	**2.5J**	mg/L	5.0	1		05/14/18 17:38	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**5.7**	mg/L	0.50	5	05/17/18 06:14	05/17/18 13:43	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 23:02	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 23:02	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:10	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**17.2**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:28		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**3.1**	mg/L	0.10	1		05/17/18 14:22	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**20.0**	mg/L	1.0	1		05/18/18 18:43	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 - 5/3
Pace Project No.: 7050533

Sample: MW-12A **Lab ID: 7050533008** Collected: 05/03/18 14:45 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:06	7440-43-9	
Calcium	**118000**	ug/L	200	1	05/09/18 09:54	05/10/18 01:06	7440-70-2	
Iron	**35000**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:06	7439-89-6	
Lead	**3.0J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:06	7439-92-1	
Magnesium	**14500**	ug/L	200	1	05/09/18 09:54	05/10/18 01:06	7439-95-4	
Manganese	**7920**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:06	7439-96-5	
Potassium	**3350J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:06	7440-09-7	
Sodium	**6920**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:06	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 20:01	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	142-28-9	
1,4-Dichlorobenzene	**2.6**	ug/L	1.0	1		05/08/18 20:01	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 20:01	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 20:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 20:01	108-10-1	
Acetone	**20.2**	ug/L	5.0	1		05/08/18 20:01	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 20:01	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 20:01	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:01	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:01	107-05-1	
Benzene	**5.7**	ug/L	1.0	1		05/08/18 20:01	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 20:01	56-23-5	
Chlorobenzene	**6.1**	ug/L	1.0	1		05/08/18 20:01	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 20:01	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-12A **Lab ID: 7050533008** Collected: 05/03/18 14:45 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:01	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 20:01	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:01	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:01	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 20:01	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:01	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 20:01	108-05-4	
Vinyl chloride	**1.7**	ug/L	1.0	1		05/08/18 20:01	75-01-4	
Xylene (Total)	**1.2J**	ug/L	3.0	1		05/08/18 20:01	1330-20-7	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	1		05/08/18 20:01	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 20:01	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 20:01	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-124	1		05/08/18 20:01	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 20:01	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**10.3JJJJJ**	ug/L		1		05/08/18 20:01		N
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**410**	mg/L	5.0	1		05/14/18 16:00		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**436**	mg/L	10.0	1		05/09/18 15:49		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**101**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:59		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**8.1**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.23J**	mg/L	0.50	1		05/14/18 17:55	24959-67-9	
Chloride	**6.1**	mg/L	2.0	1		05/14/18 17:55	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-12A **Lab ID: 7050533008** Collected: 05/03/18 14:45 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**2.3J**	mg/L	5.0	1		05/14/18 17:55	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**8.9**	mg/L	0.50	1	05/17/18 06:14	05/17/18 13:02	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.097**	mg/L	0.050	1		05/04/18 23:03	14797-55-8	
Nitrate-Nitrite (as N)	**0.097**	mg/L	0.050	1		05/04/18 23:03	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:11	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**25.3**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:37		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**5.7**	mg/L	0.50	5		05/17/18 15:52	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**25.0**	mg/L	1.0	1		05/18/18 18:55	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Melville, NY 11747
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ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-12B **Lab ID: 7050533009** Collected: 05/03/18 13:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:12	7440-43-9	
Calcium	**119000**	ug/L	200	1	05/09/18 09:54	05/10/18 01:12	7440-70-2	
Iron	**17500**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:12	7439-89-6	
Lead	**2.1J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:12	7439-92-1	
Magnesium	**22000**	ug/L	200	1	05/09/18 09:54	05/10/18 01:12	7439-95-4	
Manganese	**7620**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:12	7439-96-5	
Potassium	**3970J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:12	7440-09-7	
Sodium	**11200**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:12	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	79-00-5	
1,1-Dichloroethane	**4.3**	ug/L	1.0	1		05/08/18 20:19	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 20:19	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	142-28-9	
1,4-Dichlorobenzene	**3.7**	ug/L	1.0	1		05/08/18 20:19	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 20:19	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 20:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 20:19	108-10-1	
Acetone	**2.2J**	ug/L	5.0	1		05/08/18 20:19	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 20:19	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 20:19	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:19	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:19	107-05-1	
Benzene	**7.8**	ug/L	1.0	1		05/08/18 20:19	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 20:19	56-23-5	
Chlorobenzene	**9.4**	ug/L	1.0	1		05/08/18 20:19	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 20:19	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-12B **Lab ID: 7050533009** Collected: 05/03/18 13:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:19	97-63-2	
Ethylbenzene	**1.6**	ug/L	1.0	1		05/08/18 20:19	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 20:19	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:19	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:19	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 20:19	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:19	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 20:19	108-05-4	
Vinyl chloride	**2.2**	ug/L	1.0	1		05/08/18 20:19	75-01-4	
Xylene (Total)	**2.9J**	ug/L	3.0	1		05/08/18 20:19	1330-20-7	
cis-1,2-Dichloroethene	**2.5**	ug/L	1.0	1		05/08/18 20:19	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 20:19	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		05/08/18 20:19	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 20:19	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/08/18 20:19	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**14.4JJJJJ**	ug/L		1		05/08/18 20:19		N
Ethyl ether	**5.8JJJJJ**	ug/L		1		05/08/18 20:19		N
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**378**	mg/L	1.0	1		05/15/18 12:01		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**450**	mg/L	5.0	1		05/14/18 16:03		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**457**	mg/L	10.0	1		05/09/18 15:50		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**64.5**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:59		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**13.0**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:20		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-12B **Lab ID: 7050533009** Collected: 05/03/18 13:00 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.38J**	mg/L	0.50	1		05/14/18 18:11	24959-67-9	
Chloride	**9.1**	mg/L	2.0	1		05/14/18 18:11	16887-00-6	
Sulfate	**1.9J**	mg/L	5.0	1		05/14/18 18:11	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**6.7**	mg/L	0.50	1	05/17/18 06:14	05/17/18 13:03	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 23:04	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 23:04	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:12	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**43.7**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:37		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**5.1**	mg/L	0.50	5		05/17/18 15:53	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**20.8**	mg/L	1.0	1		05/18/18 20:04	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-13 **Lab ID: 7050533010** Collected: 05/03/18 13:40 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:17	7440-43-9	
Calcium	**42700**	ug/L	200	1	05/09/18 09:54	05/10/18 01:17	7440-70-2	
Iron	**357**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:17	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:17	7439-92-1	
Magnesium	**12100**	ug/L	200	1	05/09/18 09:54	05/10/18 01:17	7439-95-4	
Manganese	**1120**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:17	7439-96-5	
Potassium	**1090J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:17	7440-09-7	
Sodium	**8940**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:17	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 20:37	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 20:37	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 20:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 20:37	108-10-1	
Acetone	**1.7J**	ug/L	5.0	1		05/08/18 20:37	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 20:37	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 20:37	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:37	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:37	107-05-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 20:37	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 20:37	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-13 **Lab ID: 7050533010** Collected: 05/03/18 13:40 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:37	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 20:37	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:37	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:37	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 20:37	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 20:37	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:37	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 20:37	1330-20-7	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	1		05/08/18 20:37	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 20:37	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	68-153	1		05/08/18 20:37	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		05/08/18 20:37	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 20:37	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:27		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**144**	mg/L	1.0	1		05/15/18 12:09		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**150**	mg/L	5.0	1		05/14/18 16:04		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**157**	mg/L	10.0	1		05/09/18 15:50		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**17.5**	mg/L	10.0	1	05/10/18 12:01	05/10/18 13:59		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-13 **Lab ID: 7050533010** Collected: 05/03/18 13:40 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:22		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.27J**	mg/L	0.50	1		05/14/18 18:28	24959-67-9	
Chloride	**5.1**	mg/L	2.0	1		05/14/18 18:28	16887-00-6	
Sulfate	**5.1**	mg/L	5.0	1		05/14/18 18:28	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	05/17/18 06:14	05/17/18 13:04	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 23:05	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 23:05	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:13	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**3.4J**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:38		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.068J**	mg/L	0.10	1		05/17/18 14:26	7664-41-7	B
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**14.7**	mg/L	1.0	1		05/18/18 20:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-14 **Lab ID: 7050533011** Collected: 05/03/18 11:50 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:22	7440-43-9	
Calcium	**59400**	ug/L	200	1	05/09/18 09:54	05/10/18 01:22	7440-70-2	
Iron	**51.8**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:22	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:22	7439-92-1	
Magnesium	**14300**	ug/L	200	1	05/09/18 09:54	05/10/18 01:22	7439-95-4	
Manganese	**50.0**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:22	7439-96-5	
Potassium	**1780J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:22	7440-09-7	
Sodium	**9460**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:22	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 20:55	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 20:55	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 20:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 20:55	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/08/18 20:55	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 20:55	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 20:55	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:55	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:55	107-05-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 20:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 20:55	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-14 **Lab ID: 7050533011** Collected: 05/03/18 11:50 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:55	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 20:55	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 20:55	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 20:55	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 20:55	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 20:55	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 20:55	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 20:55	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 20:55	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		05/08/18 20:55	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 20:55	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 20:55	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:28		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**207**	mg/L	1.0	1		05/15/18 12:15		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**190**	mg/L	5.0	1		05/14/18 16:06		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**202**	mg/L	10.0	1		05/09/18 15:51		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**17.5**	mg/L	10.0	1	05/10/18 12:01	05/10/18 14:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: MW-14 **Lab ID: 7050533011** Collected: 05/03/18 11:50 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.033J**	mg/L	0.50	1		05/14/18 18:45	24959-67-9	
Chloride	**2.0**	mg/L	2.0	1		05/14/18 18:45	16887-00-6	
Sulfate	**12.8**	mg/L	5.0	1		05/14/18 18:45	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**<0.10**	mg/L	0.10	1	05/17/18 06:14	05/17/18 13:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 23:07	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 23:07	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:17	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**4.3J**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:38		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.020J**	mg/L	0.10	1		05/17/18 14:27	7664-41-7	B
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**10.7**	mg/L	1.0	1		05/18/18 21:33	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 - 5/3
Pace Project No.: 7050533

Sample: SEEP **Lab ID: 7050533012** Collected: 05/03/18 11:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:38	7440-43-9	
Calcium	**57500**	ug/L	200	1	05/09/18 09:54	05/10/18 01:38	7440-70-2	
Iron	**15900**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:38	7439-89-6	
Lead	**2.4J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:38	7439-92-1	
Magnesium	**17800**	ug/L	200	1	05/09/18 09:54	05/10/18 01:38	7439-95-4	
Manganese	**9690**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:38	7439-96-5	
Potassium	**3770J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:38	7440-09-7	
Sodium	**6160**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:38	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	79-00-5	
1,1-Dichloroethane	**4.7**	ug/L	1.0	1		05/08/18 21:13	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 21:13	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	142-28-9	
1,4-Dichlorobenzene	**1.3**	ug/L	1.0	1		05/08/18 21:13	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 21:13	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 21:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 21:13	108-10-1	
Acetone	**2.4J**	ug/L	5.0	1		05/08/18 21:13	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 21:13	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 21:13	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 21:13	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 21:13	107-05-1	
Benzene	**2.2**	ug/L	1.0	1		05/08/18 21:13	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 21:13	56-23-5	
Chlorobenzene	**3.0**	ug/L	1.0	1		05/08/18 21:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 21:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: SEEP **Lab ID: 7050533012** Collected: 05/03/18 11:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 21:13	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 21:13	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 21:13	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 21:13	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 21:13	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	108-88-3	
Trichloroethene	**1.7**	ug/L	1.0	1		05/08/18 21:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:13	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 21:13	108-05-4	
Vinyl chloride	**3.4**	ug/L	1.0	1		05/08/18 21:13	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 21:13	1330-20-7	
cis-1,2-Dichloroethene	**10.3**	ug/L	1.0	1		05/08/18 21:13	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 21:13	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 21:13	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 21:13	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/08/18 21:13	2037-26-5	
Tentatively Identified Compounds								
Difluorochloromethane	**5.2JJJJJ**	ug/L		1		05/08/18 21:13		N
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**201**	mg/L	1.0	1		05/16/18 15:25		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**250**	mg/L	5.0	1		05/14/18 16:08		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**262**	mg/L	10.0	1		05/09/18 15:51		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**58.4**	mg/L	10.0	1	05/10/18 12:01	05/10/18 14:00		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**3.5**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:27		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: SEEP **Lab ID: 7050533012** Collected: 05/03/18 11:30 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.34J**	mg/L	0.50	1		05/14/18 19:02	24959-67-9	
Chloride	**6.1**	mg/L	2.0	1		05/14/18 19:02	16887-00-6	
Sulfate	**3.7J**	mg/L	5.0	1		05/14/18 19:02	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**3.9**	mg/L	0.10	1	05/17/18 06:14	05/17/18 13:06	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 23:10	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 23:10	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:18	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**17.2**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:39		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**3.1**	mg/L	0.10	1		05/17/18 14:28	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**18.5**	mg/L	1.0	1		05/18/18 22:18	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 - 5/3
Pace Project No.: 7050533

Sample: STREAM **Lab ID: 7050533013** Collected: 05/03/18 11:45 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:44	7440-43-9	
Calcium	**33800**	ug/L	200	1	05/09/18 09:54	05/10/18 01:44	7440-70-2	
Iron	**655**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:44	7439-89-6	
Lead	**<5.0**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:44	7439-92-1	
Magnesium	**9630**	ug/L	200	1	05/09/18 09:54	05/10/18 01:44	7439-95-4	
Manganese	**378**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:44	7439-96-5	
Potassium	**2950J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:44	7440-09-7	
Sodium	**3610J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:44	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-35-4	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	563-58-6	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 21:31	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	78-87-5	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	541-73-1	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	142-28-9	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	106-46-7	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	594-20-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 21:31	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 21:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 21:31	108-10-1	
Acetone	**2.0J**	ug/L	5.0	1		05/08/18 21:31	67-64-1	
Acetonitrile	**<5.0**	ug/L	5.0	1		05/08/18 21:31	75-05-8	
Acrolein	**<1.0**	ug/L	1.0	1		05/08/18 21:31	107-02-8	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 21:31	107-13-1	
Allyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 21:31	107-05-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 21:31	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 21:31	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	74-87-3	
Chloroprene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	126-99-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: STREAM **Lab ID: 7050533013** Collected: 05/03/18 11:45 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-71-8	CL
Ethyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 21:31	97-63-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	74-88-4	
Isobutanol	**<20.0**	ug/L	20.0	1		05/08/18 21:31	78-83-1	CL
Methacrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 21:31	126-98-7	
Methyl methacrylate	**<1.0**	ug/L	1.0	1		05/08/18 21:31	80-62-6	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-09-2	
Propionitrile	**<4.0**	ug/L	4.0	1		05/08/18 21:31	107-12-0	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 21:31	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 21:31	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 21:31	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 21:31	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	68-153	1		05/08/18 21:31	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 21:31	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 21:31	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:28		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**98.6**	mg/L	1.0	1		05/16/18 15:32		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**120**	mg/L	5.0	1		05/14/18 16:09		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**143**	mg/L	10.0	1		05/09/18 15:52		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**21.6**	mg/L	10.0	1	05/10/18 12:01	05/10/18 14:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: STREAM **Lab ID: 7050533013** Collected: 05/03/18 11:45 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**7.7**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:36		B1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.18J**	mg/L	0.50	1		05/14/18 19:18	24959-67-9	
Chloride	**2.9**	mg/L	2.0	1		05/14/18 19:18	16887-00-6	
Sulfate	**7.0**	mg/L	5.0	1		05/14/18 19:18	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	05/17/18 06:14	05/17/18 13:07	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**0.39**	mg/L	0.050	1		05/04/18 23:11	14797-55-8	
Nitrate-Nitrite (as N)	**0.39**	mg/L	0.050	1		05/04/18 23:11	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:19	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**5.1**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:49		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.028J**	mg/L	0.10	1		05/17/18 14:29	7664-41-7	B
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**15.5**	mg/L	1.0	1		05/18/18 22:30	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 - 5/3
Pace Project No.: 7050533

Sample: DUP **Lab ID: 7050533014** Collected: 05/03/18 13:10 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010C Preparation Method: EPA 3005A							
Cadmium	**<2.5**	ug/L	2.5	1	05/09/18 09:54	05/10/18 01:49	7440-43-9	
Calcium	**75700**	ug/L	200	1	05/09/18 09:54	05/10/18 01:49	7440-70-2	
Iron	**3440**	ug/L	20.0	1	05/09/18 09:54	05/10/18 01:49	7439-89-6	
Lead	**2.8J**	ug/L	5.0	1	05/09/18 09:54	05/10/18 01:49	7439-92-1	
Magnesium	**11000**	ug/L	200	1	05/09/18 09:54	05/10/18 01:49	7439-95-4	
Manganese	**5330**	ug/L	10.0	1	05/09/18 09:54	05/10/18 01:49	7439-96-5	
Potassium	**2030J**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:49	7440-09-7	
Sodium	**6020**	ug/L	5000	1	05/09/18 09:54	05/10/18 01:49	7440-23-5	
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	79-00-5	
1,1-Dichloroethane	**1.4**	ug/L	1.0	1		05/08/18 21:49	75-34-3	CH
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 21:49	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 21:49	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 21:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 21:49	108-10-1	
Acetone	**<5.0**	ug/L	5.0	1		05/08/18 21:49	67-64-1	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 21:49	107-13-1	
Benzene	**1.0**	ug/L	1.0	1		05/08/18 21:49	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 21:49	56-23-5	
Chlorobenzene	**1.6**	ug/L	1.0	1		05/08/18 21:49	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 21:49	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: DUP **Lab ID: 7050533014** Collected: 05/03/18 13:10 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C							
Trichloroethene	**1.1**	ug/L	1.0	1		05/08/18 21:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 21:49	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 21:49	108-05-4	
Vinyl chloride	**2.2**	ug/L	1.0	1		05/08/18 21:49	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 21:49	1330-20-7	
cis-1,2-Dichloroethene	**5.0**	ug/L	1.0	1		05/08/18 21:49	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 21:49	110-57-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	68-153	1		05/08/18 21:49	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 21:49	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		05/08/18 21:49	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:28		
2320B Alkalinity	Analytical Method: SM22 2320B							
Alkalinity, Total as CaCO3	**203**	mg/L	1.0	1		05/16/18 15:40		
2340C Hardness, Total	Analytical Method: SM22 2340C							
Tot Hardness asCaCO3 (SM 2340B	**260**	mg/L	5.0	1		05/14/18 16:11		
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	**257**	mg/L	10.0	1		05/09/18 15:53		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**27.7**	mg/L	10.0	1	05/10/18 12:01	05/10/18 14:00		
5210B BOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
BOD, 5 day	**<2.0**	mg/L	2.0	1	05/05/18 10:37	05/10/18 11:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**0.15J**	mg/L	0.50	1		05/14/18 19:35	24959-67-9	
Chloride	**2.9**	mg/L	2.0	1		05/14/18 19:35	16887-00-6	
Sulfate	**6.5**	mg/L	5.0	1		05/14/18 19:35	14808-79-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.85**	mg/L	0.10	1	05/17/18 06:14	05/17/18 13:07	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrate as N	**<0.050**	mg/L	0.050	1		05/04/18 23:12	14797-55-8	
Nitrate-Nitrite (as N)	**<0.050**	mg/L	0.050	1		05/04/18 23:12	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Sample: DUP **Lab ID: 7050533014** Collected: 05/03/18 13:10 Received: 05/04/18 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2							
Nitrite as N	**<0.050**	mg/L	0.050	1		05/04/18 20:21	14797-65-0	
Phenolics, Total Recoverable	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1							
Phenolics, Total Recoverable	**12.3**	ug/L	5.0	1	05/15/18 12:00	05/15/18 15:49		
4500 Ammonia Water	Analytical Method: SM22 4500 NH3 H							
Nitrogen, Ammonia	**0.70**	mg/L	0.10	1		05/17/18 14:30	7664-41-7	
5310B TOC as NPOC	Analytical Method: SM22 5310B							
Total Organic Carbon	**13.5**	mg/L	1.0	1		05/18/18 22:42	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 - 5/3
Pace Project No.: 7050533

Sample: TRIP BLANK **Lab ID: 7050533015** Collected: 05/03/18 00:00 Received: 05/04/18 09:40 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	**<1.0**	ug/L	1.0	1		05/08/18 17:55	630-20-6	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	79-34-5	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	79-00-5	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-35-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	96-18-4	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	96-12-8	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		05/08/18 17:55	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	95-50-1	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	107-06-2	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	78-87-5	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	106-46-7	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		05/08/18 17:55	78-93-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		05/08/18 17:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		05/08/18 17:55	108-10-1	
Acetone	**1.5J**	ug/L	5.0	1		05/08/18 17:55	67-64-1	
Acrylonitrile	**<1.0**	ug/L	1.0	1		05/08/18 17:55	107-13-1	
Benzene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	71-43-2	
Bromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-25-2	CL
Bromomethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	74-83-9	
Carbon disulfide	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		05/08/18 17:55	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		05/08/18 17:55	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	74-87-3	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	124-48-1	CL
Dibromomethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	74-95-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	100-41-4	
Iodomethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	74-88-4	
Methylene Chloride	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-09-2	
Styrene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	100-42-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-69-4	
Vinyl acetate	**<1.0**	ug/L	1.0	1		05/08/18 17:55	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		05/08/18 17:55	75-01-4	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/08/18 17:55	1330-20-7	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	156-59-2	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	10061-01-5	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	156-60-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		05/08/18 17:55	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 - 5/3
Pace Project No.: 7050533

Sample: TRIP BLANK **Lab ID: 7050533015** Collected: 05/03/18 00:00 Received: 05/04/18 09:40 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)	104	%	68-153	1		05/08/18 17:55	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-124	1		05/08/18 17:55	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		05/08/18 17:55	2037-26-5	
TIC MSV Water	Analytical Method: EPA 8260							
TIC Search	**No TIC's Found**			1		05/17/18 17:26		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 66862
QC Batch Method: EPA 6010C
Analysis Method: EPA 6010C
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 7050533007

METHOD BLANK: 306587
Matrix: Water
Associated Lab Samples: 7050533007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<2.5	2.5	05/10/18 22:46	
Calcium, Dissolved	ug/L	<200	200	05/10/18 22:46	
Iron, Dissolved	ug/L	<100	100	05/10/18 22:46	
Lead, Dissolved	ug/L	<5.0	5.0	05/10/18 22:46	
Magnesium, Dissolved	ug/L	<200	200	05/10/18 22:46	
Manganese, Dissolved	ug/L	<10.0	10.0	05/10/18 22:46	
Potassium, Dissolved	ug/L	<5000	5000	05/10/18 22:46	
Sodium, Dissolved	ug/L	<5000	5000	05/10/18 22:46	

LABORATORY CONTROL SAMPLE: 306588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	50	49.3	99	80-120	
Calcium, Dissolved	ug/L	25000	25200	101	80-120	
Iron, Dissolved	ug/L	2000	1840	92	80-120	
Lead, Dissolved	ug/L	500	510	102	80-120	
Magnesium, Dissolved	ug/L	25000	24700	99	80-120	
Manganese, Dissolved	ug/L	250	249	100	80-120	
Potassium, Dissolved	ug/L	50000	47300	95	80-120	
Sodium, Dissolved	ug/L	50000	48600	97	80-120	

MATRIX SPIKE SAMPLE: 306591

Parameter	Units	7050533007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	<2.5	50	48.3	97	75-125	
Calcium, Dissolved	ug/L	62400	25000	84800	90	75-125	
Iron, Dissolved	ug/L	2980	2000	4720	87	75-125	
Lead, Dissolved	ug/L	3.4J	500	489	97	75-125	
Magnesium, Dissolved	ug/L	24400	25000	47900	94	75-125	
Manganese, Dissolved	ug/L	<10.0	250	<10.0	0	75-125	M1
Potassium, Dissolved	ug/L	2820J	50000	45500	85	75-125	
Sodium, Dissolved	ug/L	11200	50000	60000	98	75-125	

SAMPLE DUPLICATE: 306590

Parameter	Units	7050533007 Result	Dup Result	RPD	Qualifiers
Cadmium, Dissolved	ug/L	<2.5	<2.5		

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 - 5/3
Pace Project No.: 7050533

SAMPLE DUPLICATE: 306590

Parameter	Units	7050533007 Result	Dup Result	RPD	Qualifiers
Calcium, Dissolved	ug/L	62400	62400	0	
Iron, Dissolved	ug/L	2980	3020	1	
Lead, Dissolved	ug/L	3.4J	2.5J		
Magnesium, Dissolved	ug/L	24400	24500	0	
Manganese, Dissolved	ug/L	<10.0	<10.0		
Potassium, Dissolved	ug/L	2820J	2780J		
Sodium, Dissolved	ug/L	11200	11300	1	

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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 - 5/3
Pace Project No.: 7050533

QC Batch: 66708 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010 MET Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 305901 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<2.5	2.5	05/09/18 23:39	
Calcium	ug/L	<200	200	05/09/18 23:39	
Iron	ug/L	<20.0	20.0	05/09/18 23:39	
Lead	ug/L	<5.0	5.0	05/09/18 23:39	
Magnesium	ug/L	<200	200	05/09/18 23:39	
Manganese	ug/L	<10.0	10.0	05/09/18 23:39	
Potassium	ug/L	<5000	5000	05/09/18 23:39	
Sodium	ug/L	<5000	5000	05/09/18 23:39	

LABORATORY CONTROL SAMPLE: 305902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	50	49.9	100	80-120	
Calcium	ug/L	25000	25400	102	80-120	
Iron	ug/L	2000	2050	102	80-120	
Lead	ug/L	500	507	101	80-120	
Magnesium	ug/L	25000	25200	101	80-120	
Manganese	ug/L	250	259	104	80-120	
Potassium	ug/L	50000	50400	101	80-120	
Sodium	ug/L	50000	50400	101	80-120	

MATRIX SPIKE SAMPLE: 305904

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	<2.5	50	48.7	97	75-125	
Calcium	ug/L	76400	25000	103000	106	75-125	
Iron	ug/L	782	2000	2860	104	75-125	
Lead	ug/L	4.0J	500	506	100	75-125	
Magnesium	ug/L	24300	25000	49800	102	75-125	
Manganese	ug/L	5870	250	6150	111	75-125	
Potassium	ug/L	2420J	50000	49900	95	75-125	
Sodium	ug/L	8990	50000	59000	100	75-125	

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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 - 5/3
Pace Project No.: 7050533

SAMPLE DUPLICATE: 305903

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	76400	77200	1	
Iron	ug/L	782	799	2	
Lead	ug/L	4.0J	4.3J		
Magnesium	ug/L	24300	24500	1	
Manganese	ug/L	5870	5980	2	
Potassium	ug/L	2420J	2470J		
Sodium	ug/L	8990	8980	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 - 5/3
Pace Project No.: 7050533

QC Batch: 66574 Analysis Method: EPA 8260C/5030C
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533005, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014, 7050533015

METHOD BLANK: 305213 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533005, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014, 7050533015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
1,1-Dichloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
1,1-Dichloroethene	ug/L	<1.0	1.0	05/08/18 16:31	
1,1-Dichloropropene	ug/L	<1.0	1.0	05/08/18 16:31	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	05/08/18 16:31	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	05/08/18 16:31	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	05/08/18 16:31	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	05/08/18 16:31	
1,2-Dichloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
1,2-Dichloropropane	ug/L	<1.0	1.0	05/08/18 16:31	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	05/08/18 16:31	
1,3-Dichloropropane	ug/L	<1.0	1.0	05/08/18 16:31	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	05/08/18 16:31	
2,2-Dichloropropane	ug/L	<1.0	1.0	05/08/18 16:31	
2-Butanone (MEK)	ug/L	<5.0	5.0	05/08/18 16:31	
2-Hexanone	ug/L	<5.0	5.0	05/08/18 16:31	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	05/08/18 16:31	
Acetone	ug/L	<5.0	5.0	05/08/18 16:31	
Acetonitrile	ug/L	<5.0	5.0	05/08/18 16:31	
Acrolein	ug/L	<1.0	1.0	05/08/18 16:31	
Acrylonitrile	ug/L	<1.0	1.0	05/08/18 16:31	
Allyl chloride	ug/L	<1.0	1.0	05/08/18 16:31	
Benzene	ug/L	<1.0	1.0	05/08/18 16:31	
Bromochloromethane	ug/L	<1.0	1.0	05/08/18 16:31	
Bromodichloromethane	ug/L	<1.0	1.0	05/08/18 16:31	
Bromoform	ug/L	<1.0	1.0	05/08/18 16:31	CL
Bromomethane	ug/L	<1.0	1.0	05/08/18 16:31	
Carbon disulfide	ug/L	<1.0	1.0	05/08/18 16:31	
Carbon tetrachloride	ug/L	<1.0	1.0	05/08/18 16:31	
Chlorobenzene	ug/L	<1.0	1.0	05/08/18 16:31	
Chloroethane	ug/L	<1.0	1.0	05/08/18 16:31	
Chloroform	ug/L	<1.0	1.0	05/08/18 16:31	
Chloromethane	ug/L	<1.0	1.0	05/08/18 16:31	
Chloroprene	ug/L	<1.0	1.0	05/08/18 16:31	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	05/08/18 16:31	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	05/08/18 16:31	
Dibromochloromethane	ug/L	<1.0	1.0	05/08/18 16:31	CL

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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 - 5/3
Pace Project No.: 7050533

METHOD BLANK: 305213 Matrix: Water

Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533005, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014, 7050533015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<1.0	1.0	05/08/18 16:31	
Dichlorodifluoromethane	ug/L	<1.0	1.0	05/08/18 16:31	CL
Ethyl methacrylate	ug/L	<1.0	1.0	05/08/18 16:31	
Ethylbenzene	ug/L	<1.0	1.0	05/08/18 16:31	
Iodomethane	ug/L	<1.0	1.0	05/08/18 16:31	
Isobutanol	ug/L	<20.0	20.0	05/08/18 16:31	CL
m&p-Xylene	ug/L	<2.0	2.0	05/08/18 16:31	
Methacrylonitrile	ug/L	<1.0	1.0	05/08/18 16:31	
Methyl methacrylate	ug/L	<1.0	1.0	05/08/18 16:31	
Methylene Chloride	ug/L	<1.0	1.0	05/08/18 16:31	
o-Xylene	ug/L	<1.0	1.0	05/08/18 16:31	
Propionitrile	ug/L	<4.0	4.0	05/08/18 16:31	
Styrene	ug/L	<1.0	1.0	05/08/18 16:31	
Tetrachloroethene	ug/L	<1.0	1.0	05/08/18 16:31	
Toluene	ug/L	<1.0	1.0	05/08/18 16:31	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	05/08/18 16:31	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	05/08/18 16:31	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	05/08/18 16:31	
Trichloroethene	ug/L	<1.0	1.0	05/08/18 16:31	
Trichlorofluoromethane	ug/L	<1.0	1.0	05/08/18 16:31	
Vinyl acetate	ug/L	<1.0	1.0	05/08/18 16:31	
Vinyl chloride	ug/L	<1.0	1.0	05/08/18 16:31	
Xylene (Total)	ug/L	<3.0	3.0	05/08/18 16:31	
1,2-Dichloroethane-d4 (S)	%	102	68-153	05/08/18 16:31	
4-Bromofluorobenzene (S)	%	96	79-124	05/08/18 16:31	
Toluene-d8 (S)	%	92	69-124	05/08/18 16:31	

LABORATORY CONTROL SAMPLE: 305214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	37.4	75	74-113	
1,1,1-Trichloroethane	ug/L	50	45.6	91	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	74-121	
1,1,2-Trichloroethane	ug/L	50	50.9	102	80-117	
1,1-Dichloroethane	ug/L	50	57.1	114	83-151	CH
1,1-Dichloroethene	ug/L	50	52.3	105	45-146	
1,1-Dichloropropene	ug/L	50	51.5	103	59-127	
1,2,3-Trichloropropane	ug/L	50	45.2	90	71-123	
1,2-Dibromo-3-chloropropane	ug/L	50	43.1	86	74-119	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	83-115	
1,2-Dichlorobenzene	ug/L	50	45.2	90	74-113	
1,2-Dichloroethane	ug/L	50	55.8	112	74-129	
1,2-Dichloropropane	ug/L	50	53.2	106	75-117	

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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 - 5/3
Pace Project No.: 7050533

LABORATORY CONTROL SAMPLE: 305214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	45.1	90	71-112	
1,3-Dichloropropane	ug/L	50	46.0	92	74-112	
1,4-Dichlorobenzene	ug/L	50	45.2	90	71-113	
2,2-Dichloropropane	ug/L	50	49.9	100	63-133	
2-Butanone (MEK)	ug/L	50	52.3	105	44-162	
2-Hexanone	ug/L	50	47.7	95	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	50.7	101	69-132	
Acetone	ug/L	50	52.7	105	23-188	
Acetonitrile	ug/L	250	268	107	30-150	
Acrolein	ug/L	50	51.8	104	40-174	
Acrylonitrile	ug/L	50	56.5	113	59-148	CH
Allyl chloride	ug/L	50	51.3	103	46-141	CH
Benzene	ug/L	50	51.4	103	73-119	
Bromochloromethane	ug/L	50	50.9	102	81-116	
Bromodichloromethane	ug/L	50	48.1	96	78-117	
Bromoform	ug/L	50	32.5	65	65-122	CL
Bromomethane	ug/L	50	48.9	98	52-147	
Carbon disulfide	ug/L	50	51.3	103	41-144	
Carbon tetrachloride	ug/L	50	39.7	79	59-120	
Chlorobenzene	ug/L	50	42.0	84	75-113	
Chloroethane	ug/L	50	51.7	103	49-151	
Chloroform	ug/L	50	55.0	110	72-122	CH
Chloromethane	ug/L	50	39.6	79	46-144	
Chloroprene	ug/L	50	56.4	113	60-140	CH
cis-1,2-Dichloroethene	ug/L	50	53.6	107	72-121	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	78-116	
Dibromochloromethane	ug/L	50	36.9	74	70-120	CL
Dibromomethane	ug/L	50	48.7	97	75-125	
Dichlorodifluoromethane	ug/L	50	27.6	55	22-154	CL
Ethyl methacrylate	ug/L	50	51.8	104	59-128	
Ethylbenzene	ug/L	50	43.5	87	70-113	
Iodomethane	ug/L	50	47.3	95	61-144	
Isobutanol	ug/L	250	158	63	60-140	CL
m&p-Xylene	ug/L	100	88.6	89	72-115	
Methacrylonitrile	ug/L	50	58.6	117	60-140	CH
Methyl methacrylate	ug/L	50	52.9	106	54-131	
Methylene Chloride	ug/L	50	54.0	108	61-142	
o-Xylene	ug/L	50	43.4	87	73-117	
Propionitrile	ug/L	50	58.3	117	60-140	CH
Styrene	ug/L	50	44.2	88	72-118	
Tetrachloroethene	ug/L	50	39.1	78	60-128	
Toluene	ug/L	50	51.0	102	72-119	
trans-1,2-Dichloroethene	ug/L	50	52.8	106	56-142	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	47.9	96	71-121	
Trichloroethene	ug/L	50	50.0	100	69-117	
Trichlorofluoromethane	ug/L	50	49.9	100	27-173	

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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 - 5/3
Pace Project No.: 7050533

LABORATORY CONTROL SAMPLE: 305214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl acetate	ug/L	50	44.7	89	20-158	
Vinyl chloride	ug/L	50	44.6	89	43-143	
Xylene (Total)	ug/L	150	132	88	71-109	
1,2-Dichloroethane-d4 (S)	%			101	68-153	
4-Bromofluorobenzene (S)	%			99	79-124	
Toluene-d8 (S)	%			92	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 307142 307143

Parameter	Units	7050533006 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	37.5	38.6	75	77	74-113	3	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	51.2	52.1	102	104	65-118	2	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.3	50.9	101	102	74-121	1	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	53.5	54.2	107	108	80-117	1	
1,1-Dichloroethane	ug/L	15.5	50	50	80.9	79.8	131	129	83-151	1	CH
1,1-Dichloroethene	ug/L	<1.0	50	50	60.6	60.5	121	121	45-146	0	
1,1-Dichloropropene	ug/L	<1.0	50	50	59.1	59.1	118	118	59-127	0	
1,2,3-Trichloropropane	ug/L	<1.0	50	50	46.1	47.4	92	95	71-123	3	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	39.9	43.9	80	88	74-119	10	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	49.8	51.4	100	103	83-115	3	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	46.5	46.5	93	93	74-113	0	
1,2-Dichloroethane	ug/L	<1.0	50	50	59.9	59.3	120	119	74-129	1	
1,2-Dichloropropane	ug/L	<1.0	50	50	57.1	56.9	114	114	75-117	0	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	46.6	46.8	93	94	71-112	0	
1,3-Dichloropropane	ug/L	<1.0	50	50	47.2	47.5	94	95	74-112	1	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	46.7	46.6	93	93	71-113	0	
2,2-Dichloropropane	ug/L	<1.0	50	50	53.1	53.0	106	106	63-133	0	
2-Butanone (MEK)	ug/L	<5.0	50	50	54.1	55.1	108	110	44-162	2	
2-Hexanone	ug/L	<5.0	50	50	45.5	50.6	91	101	32-183	11	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	52.1	54.9	104	110	69-132	5	
Acetone	ug/L	1.2J	50	50	56.6	57.6	111	113	23-188	2	
Acetonitrile	ug/L	<5.0	250	250	287	291	115	117	30-150	1	
Acrolein	ug/L	<1.0	50	50	53.6	51.4	107	103	40-174	4	
Acrylonitrile	ug/L	<1.0	50	50	59.2	60.6	118	121	59-148	2	CH
Allyl chloride	ug/L	<1.0	50	50	60.9	59.2	122	118	46-141	3	CH
Benzene	ug/L	1.8	50	50	58.6	58.4	113	113	73-119	0	
Bromochloromethane	ug/L	<1.0	50	50	53.9	53.4	108	107	81-116	1	
Bromodichloromethane	ug/L	<1.0	50	50	50.6	51.7	101	103	78-117	2	
Bromoform	ug/L	<1.0	50	50	30.7	33.2	61	66	65-122	8	CL,M1
Bromomethane	ug/L	<1.0	50	50	50.5	50.1	101	100	52-147	1	
Carbon disulfide	ug/L	<1.0	50	50	59.6	57.3	119	115	41-144	4	
Carbon tetrachloride	ug/L	<1.0	50	50	44.2	45.3	88	91	59-120	2	
Chlorobenzene	ug/L	1.3	50	50	45.0	45.6	87	89	75-113	1	
Chloroethane	ug/L	<1.0	50	50	59.7	56.7	119	113	49-151	5	

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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 - 5/3
Pace Project No.: 7050533

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 307142 307143

Parameter	Units	7050533006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloroform	ug/L	<1.0	50	50	60.4	59.2	121	118	72-122	2	CH
Chloromethane	ug/L	<1.0	50	50	43.5	41.0	87	82	46-144	6	
Chloroprene	ug/L	<1.0	50	50	66.0	64.5	132	129	60-140	2	CH
cis-1,2-Dichloroethene	ug/L	54.4	50	50	119	118	129	127	72-121	1	M1
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	50.5	51.1	101	102	78-116	1	
Dibromochloromethane	ug/L	<1.0	50	50	36.5	37.9	73	76	70-120	4	CL
Dibromomethane	ug/L	<1.0	50	50	50.8	51.7	102	103	75-125	2	
Dichlorodifluoromethane	ug/L	<1.0	50	50	28.0	27.4	56	55	22-154	2	CL
Ethyl methacrylate	ug/L	<1.0	50	50	52.7	54.0	105	108	59-128	2	
Ethylbenzene	ug/L	<1.0	50	50	46.6	47.1	93	94	70-113	1	
Iodomethane	ug/L	<1.0	50	50	51.0	51.4	102	103	61-144	1	
Isobutanol	ug/L	<20.0	250	250	152	173	61	69	60-140	13	CL
m&p-Xylene	ug/L	<2.0	100	100	93.4	95.1	93	95	72-115	2	
Methacrylonitrile	ug/L	<1.0	50	50	61.4	62.6	123	125	60-140	2	CH
Methyl methacrylate	ug/L	<1.0	50	50	51.8	55.3	104	111	54-131	7	
Methylene Chloride	ug/L	<1.0	50	50	60.1	57.1	120	114	61-142	5	
o-Xylene	ug/L	<1.0	50	50	45.3	45.9	91	92	73-117	1	
Propionitrile	ug/L	<4.0	50	50	61.5	62.8	123	126	60-140	2	CH
Styrene	ug/L	<1.0	50	50	45.4	46.2	91	92	72-118	2	
Tetrachloroethene	ug/L	<1.0	50	50	42.6	43.0	85	86	60-128	1	
Toluene	ug/L	<1.0	50	50	55.8	56.3	112	113	72-119	1	
trans-1,2-Dichloroethene	ug/L	1.2	50	50	61.9	60.4	122	119	56-142	2	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	48.8	50.2	98	100	79-116	3	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	45.4	47.5	91	95	71-121	5	
Trichloroethene	ug/L	1.8	50	50	58.7	58.6	114	114	69-117	0	
Trichlorofluoromethane	ug/L	<1.0	50	50	58.2	56.4	116	113	27-173	3	
Vinyl acetate	ug/L	<1.0	50	50	43.1	45.8	86	92	20-158	6	
Vinyl chloride	ug/L	10.2	50	50	61.6	59.6	103	99	43-143	3	
Xylene (Total)	ug/L	<3.0	150	150	139	141	92	94	71-109	2	
1,2-Dichloroethane-d4 (S)	%						101	103	68-153		
4-Bromofluorobenzene (S)	%						98	99	79-124		
Toluene-d8 (S)	%						91	92	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 - 5/3
Pace Project No.: 7050533

QC Batch: 67422 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533009, 7050533010, 7050533011

METHOD BLANK: 309156 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533009, 7050533010, 7050533011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/15/18 09:43	

LABORATORY CONTROL SAMPLE: 309157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	22.2	89	80-120	

MATRIX SPIKE SAMPLE: 309159

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	269	50	358	178	75-125	M1

SAMPLE DUPLICATE: 309158

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	269	340	24	D6

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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 - 5/3
Pace Project No.: 7050533

QC Batch: 67668 Analysis Method: SM22 2320B
QC Batch Method: SM22 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 7050533012, 7050533013, 7050533014

METHOD BLANK: 310123 Matrix: Water
Associated Lab Samples: 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	05/16/18 14:35	

LABORATORY CONTROL SAMPLE: 310124

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: 310126

Parameter	Units	7051531003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	15.5	25	39.5	96	75-125	

SAMPLE DUPLICATE: 310125

Parameter	Units	7051531003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	15.5	19.2	21	D6

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REPORT OF LABORATORY ANALYSIS

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

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 67345 Analysis Method: SM22 2340C
QC Batch Method: SM22 2340C Analysis Description: 2340C Hardness, Total
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 308764 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	<5.0	5.0	05/14/18 15:46	

LABORATORY CONTROL SAMPLE: 308765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	1000	980	98	90-110	

MATRIX SPIKE SAMPLE: 308766

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	300	1000	1290	99	75-125	

SAMPLE DUPLICATE: 308767

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B	mg/L	300	300	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 66776 Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 306073 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	05/09/18 15:34	

LABORATORY CONTROL SAMPLE: 306074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	502	100	85-115	

MATRIX SPIKE SAMPLE: 306078

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	335	300	620	95	75-125	

MATRIX SPIKE SAMPLE: 306171

Parameter	Units	7050439001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	562	600	1250	114	75-125	

SAMPLE DUPLICATE: 306077

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	335	337	1	

SAMPLE DUPLICATE: 306170

Parameter	Units	7050439001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	562	488	14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 66884 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 306617 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	05/10/18 13:57	

LABORATORY CONTROL SAMPLE: 306618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	502	100	90-110	

MATRIX SPIKE SAMPLE: 306619

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	31.8	1000	1020	99	90-110	

SAMPLE DUPLICATE: 306620

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	31.8	40.0	23	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 66243 Analysis Method: SM22 5210B
QC Batch Method: SM22 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 303811 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	<2.0	2.0	05/10/18 12:00	

LABORATORY CONTROL SAMPLE: 303812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	176	89	84.5-115.4	

SAMPLE DUPLICATE: 303813

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	<2.0	<2.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 67330 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 308709 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	05/14/18 14:17	
Chloride	mg/L	<2.0	2.0	05/14/18 14:17	
Sulfate	mg/L	<5.0	5.0	05/14/18 14:17	

LABORATORY CONTROL SAMPLE: 308710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.0	105	90-110	
Chloride	mg/L	10	10.2	102	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE SAMPLE: 308711

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.26J	1	1.2	97	80-120	
Chloride	mg/L	8.0	10	18.4	103	80-120	
Sulfate	mg/L	5.0	10	14.9	98	80-120	

MATRIX SPIKE SAMPLE: 308713

Parameter	Units	7050979001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	<0.50	1	0.89	88	80-120	
Chloride	mg/L	16.7	10	26.8	102	80-120	
Sulfate	mg/L	35.0	10	45.3	103	80-120	

SAMPLE DUPLICATE: 308712

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.26J	0.26J		
Chloride	mg/L	8.0	7.9	1	
Sulfate	mg/L	5.0	5.0	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

SAMPLE DUPLICATE: 308714

Parameter	Units	7050979001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	<0.50	<0.50		
Chloride	mg/L	16.7	16.1	3	
Sulfate	mg/L	35.0	34.0	3	

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REPORT OF LABORATORY ANALYSIS

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(631)694-3040

QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 67804 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 310812 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	<0.10	0.10	05/17/18 12:50	

LABORATORY CONTROL SAMPLE: 310813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.8	95	90-110	

MATRIX SPIKE SAMPLE: 310814

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.88	4	5.4	113	90-110	M1

MATRIX SPIKE SAMPLE: 310816

Parameter	Units	7050570002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	24.8	4	31.8	174	90-110	M6

SAMPLE DUPLICATE: 310815

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.88	0.98	10	

SAMPLE DUPLICATE: 310817

Parameter	Units	7050570002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	24.8	23.8	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 66214 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 303574 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	05/04/18 19:46	

LABORATORY CONTROL SAMPLE: 303575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	104	90-110	

MATRIX SPIKE SAMPLE: 303576

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.56	112	90-110	M1

MATRIX SPIKE SAMPLE: 303578

Parameter	Units	7050558001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.59	118	90-110	M1

SAMPLE DUPLICATE: 303577

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 303579

Parameter	Units	7050558001 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 - 5/3
Pace Project No.: 7050533

QC Batch: 66228 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 303764 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	05/04/18 22:46	

LABORATORY CONTROL SAMPLE: 303765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	0.97	97	90-110	

MATRIX SPIKE SAMPLE: 303766

Parameter	Units	7050533001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	.5	0.53	100	90-110	

MATRIX SPIKE SAMPLE: 303768

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	.5	0.54	105	90-110	

SAMPLE DUPLICATE: 303767

Parameter	Units	7050533001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 303769

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	<0.050		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 66888 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004

METHOD BLANK: 306623 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	05/10/18 14:52	

LABORATORY CONTROL SAMPLE: 306624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	27.5	92	90-110	

MATRIX SPIKE SAMPLE: 306625

Parameter	Units	7050533004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	9.6	20	24.9	76	75-125	

MATRIX SPIKE SAMPLE: 306627

Parameter	Units	7049944004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	4.7J	20	23.5	94	75-125	

SAMPLE DUPLICATE: 306626

Parameter	Units	7050533004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	9.6	8.3	15	

SAMPLE DUPLICATE: 306628

Parameter	Units	7049944004 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	4.7J	3.4J		

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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 - 5/3
Pace Project No.: 7050533

QC Batch: 67491 Analysis Method: EPA 420.1
QC Batch Method: EPA 420.1 Analysis Description: 420.1 Phenolics Macro
Associated Lab Samples: 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 309244 Matrix: Water
Associated Lab Samples: 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	05/15/18 15:25	

LABORATORY CONTROL SAMPLE: 309245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	30	32.5	108	90-110	

MATRIX SPIKE SAMPLE: 309246

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	9.6	20	28.0	92	75-125	

SAMPLE DUPLICATE: 309247

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	9.6	8.3	15	

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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 - 5/3
Pace Project No.: 7050533

QC Batch: 67896 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004

METHOD BLANK: 311028 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.019J	0.10	05/17/18 14:09	

LABORATORY CONTROL SAMPLE: 311029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.92	92	90-110	

MATRIX SPIKE SAMPLE: 311030

Parameter	Units	7050427001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.73	1	1.8	106	75-125	

SAMPLE DUPLICATE: 311031

Parameter	Units	7050427001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.73	0.73	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 67897 Analysis Method: SM22 4500 NH3 H
QC Batch Method: SM22 4500 NH3 H Analysis Description: 4500 Ammonia
Associated Lab Samples: 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 311035 Matrix: Water
Associated Lab Samples: 7050533006, 7050533007, 7050533008, 7050533009, 7050533010, 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.019J	0.10	05/17/18 14:06	

LABORATORY CONTROL SAMPLE: 311036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.92	92	90-110	

MATRIX SPIKE SAMPLE: 311037

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.68	1	1.8	111	75-125	

SAMPLE DUPLICATE: 311038

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.68	0.69	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 67271 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533005, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010

METHOD BLANK: 308407 Matrix: Water
Associated Lab Samples: 7050533001, 7050533002, 7050533003, 7050533004, 7050533005, 7050533006, 7050533007, 7050533008, 7050533009, 7050533010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	05/18/18 16:25	

LABORATORY CONTROL SAMPLE: 308408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	85-115	

MATRIX SPIKE SAMPLE: 308410

Parameter	Units	7050533006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	12.8	10	24.8	120	75-125	

SAMPLE DUPLICATE: 308409

Parameter	Units	7050533006 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	12.8	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

QC Batch: 67272 Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 7050533011, 7050533012, 7050533013, 7050533014

METHOD BLANK: 308411 Matrix: Water
Associated Lab Samples: 7050533011, 7050533012, 7050533013, 7050533014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	05/18/18 20:58	

LABORATORY CONTROL SAMPLE: 308412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	85-115	

MATRIX SPIKE SAMPLE: 308414

Parameter	Units	7050533011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10.7	10	22.9	122	75-125	

SAMPLE DUPLICATE: 308413

Parameter	Units	7050533011 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	10.7	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

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.

TNTC - Too Numerous To Count

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.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
B1	Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N	The reported TIC has an 85% or higher match on a mass spectral library search.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7050533001	MW-6D	EPA 3005A	66708	EPA 6010C	66716
7050533002	MW-7A	EPA 3005A	66708	EPA 6010C	66716
7050533003	MW-7C	EPA 3005A	66708	EPA 6010C	66716
7050533004	MW-8B	EPA 3005A	66708	EPA 6010C	66716
7050533006	MW-10B	EPA 3005A	66708	EPA 6010C	66716
7050533007	MW-11B	EPA 3005A	66708	EPA 6010C	66716
7050533008	MW-12A	EPA 3005A	66708	EPA 6010C	66716
7050533009	MW-12B	EPA 3005A	66708	EPA 6010C	66716
7050533010	MW-13	EPA 3005A	66708	EPA 6010C	66716
7050533011	MW-14	EPA 3005A	66708	EPA 6010C	66716
7050533012	SEEP	EPA 3005A	66708	EPA 6010C	66716
7050533013	STREAM	EPA 3005A	66708	EPA 6010C	66716
7050533014	DUP	EPA 3005A	66708	EPA 6010C	66716
7050533007	MW-11B	EPA 6010C	66862		
7050533001	MW-6D	EPA 8260C/5030C	66574		
7050533002	MW-7A	EPA 8260C/5030C	66574		
7050533003	MW-7C	EPA 8260C/5030C	66574		
7050533004	MW-8B	EPA 8260C/5030C	66574		
7050533005	MW-9B	EPA 8260C/5030C	66574		
7050533006	MW-10B	EPA 8260C/5030C	66574		
7050533007	MW-11B	EPA 8260C/5030C	66574		
7050533008	MW-12A	EPA 8260C/5030C	66574		
7050533009	MW-12B	EPA 8260C/5030C	66574		
7050533010	MW-13	EPA 8260C/5030C	66574		
7050533011	MW-14	EPA 8260C/5030C	66574		
7050533012	SEEP	EPA 8260C/5030C	66574		
7050533013	STREAM	EPA 8260C/5030C	66574		
7050533014	DUP	EPA 8260C/5030C	66574		
7050533015	TRIP BLANK	EPA 8260C/5030C	66574		
7050533001	MW-6D	EPA 8260			
7050533002	MW-7A	EPA 8260			
7050533003	MW-7C	EPA 8260			
7050533004	MW-8B	EPA 8260			
7050533005	MW-9B	EPA 8260			
7050533010	MW-13	EPA 8260			
7050533011	MW-14	EPA 8260			
7050533013	STREAM	EPA 8260			
7050533014	DUP	EPA 8260			
7050533015	TRIP BLANK	EPA 8260			
7050533001	MW-6D	SM22 2320B	67422		
7050533002	MW-7A	SM22 2320B	67422		
7050533003	MW-7C	SM22 2320B	67422		
7050533004	MW-8B	SM22 2320B	67422		
7050533006	MW-10B	SM22 2320B	67422		
7050533007	MW-11B	SM22 2320B	67422		
7050533009	MW-12B	SM22 2320B	67422		
7050533010	MW-13	SM22 2320B	67422		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7050533011	MW-14	SM22 2320B	67422		
7050533012	SEEP	SM22 2320B	67668		
7050533013	STREAM	SM22 2320B	67668		
7050533014	DUP	SM22 2320B	67668		
7050533001	MW-6D	SM22 2340C	67345		
7050533002	MW-7A	SM22 2340C	67345		
7050533003	MW-7C	SM22 2340C	67345		
7050533004	MW-8B	SM22 2340C	67345		
7050533006	MW-10B	SM22 2340C	67345		
7050533007	MW-11B	SM22 2340C	67345		
7050533008	MW-12A	SM22 2340C	67345		
7050533009	MW-12B	SM22 2340C	67345		
7050533010	MW-13	SM22 2340C	67345		
7050533011	MW-14	SM22 2340C	67345		
7050533012	SEEP	SM22 2340C	67345		
7050533013	STREAM	SM22 2340C	67345		
7050533014	DUP	SM22 2340C	67345		
7050533001	MW-6D	SM22 2540C	66776		
7050533002	MW-7A	SM22 2540C	66776		
7050533003	MW-7C	SM22 2540C	66776		
7050533004	MW-8B	SM22 2540C	66776		
7050533006	MW-10B	SM22 2540C	66776		
7050533007	MW-11B	SM22 2540C	66776		
7050533008	MW-12A	SM22 2540C	66776		
7050533009	MW-12B	SM22 2540C	66776		
7050533010	MW-13	SM22 2540C	66776		
7050533011	MW-14	SM22 2540C	66776		
7050533012	SEEP	SM22 2540C	66776		
7050533013	STREAM	SM22 2540C	66776		
7050533014	DUP	SM22 2540C	66776		
7050533001	MW-6D	EPA 410.4	66884	EPA 410.4	66968
7050533002	MW-7A	EPA 410.4	66884	EPA 410.4	66968
7050533003	MW-7C	EPA 410.4	66884	EPA 410.4	66968
7050533004	MW-8B	EPA 410.4	66884	EPA 410.4	66968
7050533006	MW-10B	EPA 410.4	66884	EPA 410.4	66968
7050533007	MW-11B	EPA 410.4	66884	EPA 410.4	66968
7050533008	MW-12A	EPA 410.4	66884	EPA 410.4	66968
7050533009	MW-12B	EPA 410.4	66884	EPA 410.4	66968
7050533010	MW-13	EPA 410.4	66884	EPA 410.4	66968
7050533011	MW-14	EPA 410.4	66884	EPA 410.4	66968
7050533012	SEEP	EPA 410.4	66884	EPA 410.4	66968
7050533013	STREAM	EPA 410.4	66884	EPA 410.4	66968
7050533014	DUP	EPA 410.4	66884	EPA 410.4	66968
7050533001	MW-6D	SM22 5210B	66243	SM22 5210B	67154
7050533002	MW-7A	SM22 5210B	66243	SM22 5210B	67154
7050533003	MW-7C	SM22 5210B	66243	SM22 5210B	67154

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7050533004	**MW-8B**	SM22 5210B	66243	SM22 5210B	67154
7050533006	**MW-10B**	SM22 5210B	66243	SM22 5210B	67154
7050533007	**MW-11B**	SM22 5210B	66243	SM22 5210B	67154
7050533008	**MW-12A**	SM22 5210B	66243	SM22 5210B	67154
7050533009	**MW-12B**	SM22 5210B	66243	SM22 5210B	67154
7050533010	**MW-13**	SM22 5210B	66243	SM22 5210B	67154
7050533011	**MW-14**	SM22 5210B	66243	SM22 5210B	67154
7050533012	**SEEP**	SM22 5210B	66243	SM22 5210B	67154
7050533013	**STREAM**	SM22 5210B	66243	SM22 5210B	67154
7050533014	**DUP**	SM22 5210B	66243	SM22 5210B	67154
7050533001	**MW-6D**	EPA 300.0	67330		
7050533002	**MW-7A**	EPA 300.0	67330		
7050533003	**MW-7C**	EPA 300.0	67330		
7050533004	**MW-8B**	EPA 300.0	67330		
7050533006	**MW-10B**	EPA 300.0	67330		
7050533007	**MW-11B**	EPA 300.0	67330		
7050533008	**MW-12A**	EPA 300.0	67330		
7050533009	**MW-12B**	EPA 300.0	67330		
7050533010	**MW-13**	EPA 300.0	67330		
7050533011	**MW-14**	EPA 300.0	67330		
7050533012	**SEEP**	EPA 300.0	67330		
7050533013	**STREAM**	EPA 300.0	67330		
7050533014	**DUP**	EPA 300.0	67330		
7050533001	**MW-6D**	EPA 351.2	67804	EPA 351.2	67814
7050533002	**MW-7A**	EPA 351.2	67804	EPA 351.2	67814
7050533003	**MW-7C**	EPA 351.2	67804	EPA 351.2	67814
7050533004	**MW-8B**	EPA 351.2	67804	EPA 351.2	67814
7050533006	**MW-10B**	EPA 351.2	67804	EPA 351.2	67814
7050533007	**MW-11B**	EPA 351.2	67804	EPA 351.2	67814
7050533008	**MW-12A**	EPA 351.2	67804	EPA 351.2	67814
7050533009	**MW-12B**	EPA 351.2	67804	EPA 351.2	67814
7050533010	**MW-13**	EPA 351.2	67804	EPA 351.2	67814
7050533011	**MW-14**	EPA 351.2	67804	EPA 351.2	67814
7050533012	**SEEP**	EPA 351.2	67804	EPA 351.2	67814
7050533013	**STREAM**	EPA 351.2	67804	EPA 351.2	67814
7050533014	**DUP**	EPA 351.2	67804	EPA 351.2	67814
7050533001	**MW-6D**	EPA 353.2	66228		
7050533002	**MW-7A**	EPA 353.2	66228		
7050533003	**MW-7C**	EPA 353.2	66228		
7050533004	**MW-8B**	EPA 353.2	66228		
7050533006	**MW-10B**	EPA 353.2	66228		
7050533007	**MW-11B**	EPA 353.2	66228		
7050533008	**MW-12A**	EPA 353.2	66228		
7050533009	**MW-12B**	EPA 353.2	66228		
7050533010	**MW-13**	EPA 353.2	66228		
7050533011	**MW-14**	EPA 353.2	66228		
7050533012	**SEEP**	EPA 353.2	66228		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7050533013	**STREAM**	EPA 353.2	66228		
7050533014	**DUP**	EPA 353.2	66228		
7050533001	**MW-6D**	EPA 353.2	66214		
7050533002	**MW-7A**	EPA 353.2	66214		
7050533003	**MW-7C**	EPA 353.2	66214		
7050533004	**MW-8B**	EPA 353.2	66214		
7050533006	**MW-10B**	EPA 353.2	66214		
7050533007	**MW-11B**	EPA 353.2	66214		
7050533008	**MW-12A**	EPA 353.2	66214		
7050533009	**MW-12B**	EPA 353.2	66214		
7050533010	**MW-13**	EPA 353.2	66214		
7050533011	**MW-14**	EPA 353.2	66214		
7050533012	**SEEP**	EPA 353.2	66214		
7050533013	**STREAM**	EPA 353.2	66214		
7050533014	**DUP**	EPA 353.2	66214		
7050533001	**MW-6D**	EPA 420.1	66888	EPA 420.1	66977
7050533002	**MW-7A**	EPA 420.1	66888	EPA 420.1	66977
7050533003	**MW-7C**	EPA 420.1	66888	EPA 420.1	66977
7050533004	**MW-8B**	EPA 420.1	66888	EPA 420.1	66977
7050533006	**MW-10B**	EPA 420.1	67491	EPA 420.1	67561
7050533007	**MW-11B**	EPA 420.1	67491	EPA 420.1	67561
7050533008	**MW-12A**	EPA 420.1	67491	EPA 420.1	67561
7050533009	**MW-12B**	EPA 420.1	67491	EPA 420.1	67561
7050533010	**MW-13**	EPA 420.1	67491	EPA 420.1	67561
7050533011	**MW-14**	EPA 420.1	67491	EPA 420.1	67561
7050533012	**SEEP**	EPA 420.1	67491	EPA 420.1	67561
7050533013	**STREAM**	EPA 420.1	67491	EPA 420.1	67561
7050533014	**DUP**	EPA 420.1	67491	EPA 420.1	67561
7050533001	**MW-6D**	SM22 4500 NH3 H	67896		
7050533002	**MW-7A**	SM22 4500 NH3 H	67896		
7050533003	**MW-7C**	SM22 4500 NH3 H	67896		
7050533004	**MW-8B**	SM22 4500 NH3 H	67896		
7050533006	**MW-10B**	SM22 4500 NH3 H	67897		
7050533007	**MW-11B**	SM22 4500 NH3 H	67897		
7050533008	**MW-12A**	SM22 4500 NH3 H	67897		
7050533009	**MW-12B**	SM22 4500 NH3 H	67897		
7050533010	**MW-13**	SM22 4500 NH3 H	67897		
7050533011	**MW-14**	SM22 4500 NH3 H	67897		
7050533012	**SEEP**	SM22 4500 NH3 H	67897		
7050533013	**STREAM**	SM22 4500 NH3 H	67897		
7050533014	**DUP**	SM22 4500 NH3 H	67897		
7050533001	**MW-6D**	SM22 5310B	67271		
7050533002	**MW-7A**	SM22 5310B	67271		
7050533003	**MW-7C**	SM22 5310B	67271		
7050533004	**MW-8B**	SM22 5310B	67271		
7050533005	**MW-9B**	SM22 5310B	67271		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL - 5/3
Pace Project No.: 7050533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7050533006	**MW-10B**	SM22 5310B	67271		
7050533007	**MW-11B**	SM22 5310B	67271		
7050533008	**MW-12A**	SM22 5310B	67271		
7050533009	**MW-12B**	SM22 5310B	67271		
7050533010	**MW-13**	SM22 5310B	67271		
7050533011	**MW-14**	SM22 5310B	67272		
7050533012	**SEEP**	SM22 5310B	67272		
7050533013	**STREAM**	SM22 5310B	67272		
7050533014	**DUP**	SM22 5310B	67272		

Sample Condition Upon Receipt

Pace Analytical® Long Island Laboratory

Client Name: LaBella Associates **Project** WO#: 7050533

PM: JSA Due Date: 05/18/18

CLIENT: LBA-B

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 436627305005, 5016, 5038, 5049, 5027

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Temperature Blank Present:** ☑ Yes ☐ No

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☑ Ziploc ☐ None ☐ Other **Type of Ice:** (Wet) Blue None

Thermometer Used: TH091 **Correction Factor:** 0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.8 **Cooler Temperature Corrected (°C):** 5.8 **Date/Time 5035A kits placed in freezer** _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) **Date and Initials of person examining contents:** AW 5/4/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☐Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL (WT) OIL				
All containers needing preservation have been checked	☑Yes	☐No	☐N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot # HC727135.				
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Sample #
				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
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 applicable): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

*** PM (Project Manager) review is documented electronically in LIMS.**

APPENDIX D

Historical Analytical Results Tables

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	10/17	5/18	MEAN	NYS STD
PARAMETER VOLATILES (ug/L)																																		
Acetone							ND	ND	ND	ND		2.4						ND				-	-	-	-	-	-	-	-	-	-	-	0.141	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
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[a]
trans-1,3-Dichloropropene		ND		ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	0	0.4[a]
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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																									-									
Aluminum																		0				-	-	-	-	-	-	-	-	-	-	-	0	
Calcium										78.6								0				-	-	-	-	-	-	-	-	-	-	-	6.046	
Iron										11								0				-	-	-	-	-	-	-	-	-	-	-	0.846	0.3
Magnesium										23.3								0				-	-	-	-	-	-	-	-	-	-	-	1.792	35.0
Manganese										0.36								0				-	-	-	-	-	-	-	-	-	-	-	0.028	0.3
Potassium										4.6								0				-	-	-	-	-	-	-	-	-	-	-	0.354	
Sodium										4.9								0				-	-	-	-	-	-	-	-	-	-	-	0.377	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
IETER (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				-	-	-	-	-	-	-	-	-	-	-	0.547	
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.
<DL = Detected below method detection limit.
J = Estimated.
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**	**0.361**		**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		**0.174**	**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	10/17	5/18	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone								ND	ND	2.3		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	0.11	50.0	
Acrylonitrile								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	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	-	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	0.00	50.0	
Bromoform			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		0.45	-	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	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	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	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	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	0.00	5.0	
Chloroform			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	0.21	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	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	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	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	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	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	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	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	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	-	-	-	-	-	-	ND	0.38	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	-	ND	0.15	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	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	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	-	ND	0.05	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	-	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	-	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	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	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	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	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	-	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	-	ND	0.00	5.0	
2-Hexanone								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	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	-	ND	0.08	5.0	
4-Methyl-2-pentanone								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	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	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	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	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	0.20	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	-	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	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	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	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	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	0.00		
Vinyl chloride		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	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	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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum			16.3		2.4				0.45			1.6		0.49				0.42				0.31	-	-	ND	-	-	-	-	0.367	-	-	3.28	
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	-	96	76.38	
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	-	1.32	16.42	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	-	25.9	20.54	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	-	0.059	0.42	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	-	2.68	4.56	
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	-	4.94	5.08	20.0
PARAMETER (mg/l) TOXIC METALS																																		
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	-	-	0.11	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	-	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	-	0.0048	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	-	311	248	
Biochemical Oxygen Demand			ND		6.6				ND			ND		ND				ND		ND		ND	-	-	-	-	-	-	-	1	-	ND	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	-	21.6	31	
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	-	2.4	4.5	250.0
Color (PCU units)			5		160				20			15		ND				50				12	-	-	17	-	-	-	-	5	-	-	16	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	-	ND	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	-	0.022	0	2.0
Phenols			ND		0.02	ND		ND	0.01	ND		ND		ND	ND	ND		ND		ND		ND	-	ND	ND	-	-	-	-	0.0041	-	0.0056	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	-	20.6	23.5	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	-	13.6	5	
Total Dissolved Solids (TDS)			358		377	332		359	394	435		363		365	354	331		351		420		738	-	359	381	-	-	-	-	349	-	381	300	500
Total Hardness			361	336	395	454		325	315	288		342		360	330	340		363		350		301	-	321	342	-	-	-	-	310	-	330	331	
Total Kjeldahl Nitrogen (TKN)			1.7		2.1				ND			ND		ND				ND		ND		ND	-	-	0.28	-	-	-	-	0.35	-	ND	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	-	15.8	475	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

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 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
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	10/17	5/18	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	ND	1.7	0.67	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	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	ND	1.3	1.33	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	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	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	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	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	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	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	ND	ND	0.27	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	0.01	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	ND	ND	0.80	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	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	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	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	ND	ND	0.10	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	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	-	1.4	0.32	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	ND	1.2	1.87	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	0.15	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	0.07	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	ND	3	1.13	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	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	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	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	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	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	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	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	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	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	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	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	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	-	-	-	-	-	-	0.09	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	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	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	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	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	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	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	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	ND	ND	0.10	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	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	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	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	ND	ND	0.29	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	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	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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum			0.14		1.1		ND		ND			ND		0.251				ND				0.04	-	-	ND	ND	-	ND	-	0.03	0.853	-	4.79	
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	30.7	57.8	43.77	
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	2.31	32.8	22.89	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	6.07	11.6	9.74	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	2.16	11.6	10.86	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	21.6	18.1	19.18	
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	4.74	4.28	6.15	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony			ND		ND		ND		ND			ND		ND				ND				0	-	-	ND	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	0.01	-	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	0.614	-	0.58	1.0
Beryllium			ND		ND		ND		ND			ND		ND				ND				2E-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	-	8E-05	ND	ND	0.00	0.005
Chromium (Total)			ND		0.01		ND		ND			ND		ND				ND				0.003	-	-	0.003	0.001	-	0.011	-	0.006	ND	-	0.02	0.05
Copper			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	0.003	ND	-	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	-	0.003	0.003	0.0025	0.01	0.025
Mercury			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	ND	2E-04	-	0.00	0.0007
Nickel			ND		ND		ND		ND			ND		ND				ND				0.012	-	-	0.011	0.005	-	ND	-	0.013	0.005	-	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	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	ND	-	0.01	0.05
Thallium			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	0.014	-	ND	ND	-	0.00	0.0005
Zinc			ND		ND		ND		0.039			0.02		0.032				0.038				0.063	-	-	0.036	0.015	-	ND	-	0.01	0.008	-	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	243	206	204.0	
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	ND	8.5	5.6	
Boron			ND		0.07		0.08		0.073			0.05		0.057				0.057				0.08	-	-	0.06	0.07	-	ND	-	0.061	0.082	-	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	111	54.3	25.5	
Chromium (Hexavalent)			ND		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	-	-	ND	-	-	0.6	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	4.6	3.5	5.6	250.0
Color (PCU units)			20		50		100		250			25		60				200				130	-	-	280	120	-	10	-	15	-	-	66.6	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	0.58	0.073	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	1.6	2.1	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	-	0.007	0.014	0.0146	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	5.2	4.6	12.0	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	5.5	18.9	7.6	
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	448	296	246.6	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	96	200	156.2	
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	6	2.7	3.0	
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	41	3.5	139.5	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	10/17	5/18	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	ND	1.3	0.44	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	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	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	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	0.01	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	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	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	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	ND	ND	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	ND	ND	0.04	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	0.03	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	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	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	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	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	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	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	-	-	-	-	-	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	ND	1.1	0.82	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	0.00	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	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	ND	ND	0.08	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	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	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	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	0.00	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	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	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	ND	ND	0.09	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	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	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	0.00	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	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	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	ND	ND	0.01	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	-	-	-	-	-	-	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	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	ND	ND	0.02	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-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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum							ND		ND		ND	ND		ND			ND	ND			ND	ND	0	-	ND	ND	-	ND	ND	ND	ND	-	0.89	
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	96.6	105	97.54	
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	0.07	0.0643	1.34	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	15.3	16.7	15.79	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	6.75	1.20	1.48	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	2.57	1.73	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	6.53	6.74	6.33	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony							ND		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	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	0.239	-	0.09	1.0
Beryllium							ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	0.00	0.005
Chromium (Total)							ND		ND		ND	ND		0.006			0.005	ND			ND	0.0001	-	-	0.001	ND	-	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	ND	-	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	0.0036	0.0025	0.00	0.025
Mercury							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0001	-	0.00	0.0007
Nickel							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	0.0016	0.0015	-	0.02	0.1
Selenium							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.003	0.003	-	ND	ND	ND	ND	-	0.00	0.0
Silver							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	0	-	ND	ND	-	ND	ND	ND	0.0052	-	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	0.0495	-	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	292	286	309.3	
Biochemical Oxygen Demand							ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	ND	ND	ND	ND	ND	1	1	ND	0.2	
Boron							ND		ND		ND	ND		ND			0.02	0.021			ND	ND	-	-	0.03	0.05	-	ND	ND	0.0166	0.0187	-	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	18.2	25.7	5.1	
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	5.7	5.4	13.8	250
Color (PCU units)							13.0		15.0		50	5		ND			0	17.5			ND	8	-	-	12	8	-	5	5	5	-	-	7.1	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	0.044	ND	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	0.038	0.03	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	0.0011	0.0034	0.0090	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	6.5	6.8	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	1.6	13.5	20.0	
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	342	354	338.9	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	310	340	298.3	
Total Kjeldahl Nitrogen (TKN)							ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	0.24	0.28	-	0.13	ND	0.21	0.15	ND	1.6	
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	5.86	16.7	27.0	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. J = Estimated.
<DL = Detected below method detection limit. 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
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	10/17	5/18	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	ND	ND	0.82	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	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	ND	1.0	2.31	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	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	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	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	ND	ND	0.09	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	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	-	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	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	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	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	8.9	1.7	2.03	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	ND	ND	0.60	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	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	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	-	-	-	-	-	-	-	-	-	-	-	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	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	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	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	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	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	-	-	-	-	-	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	ND	ND	1.16	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	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	-	ND	0.51	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	ND	1.6	1.99	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	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	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	17.3	5.3	6.50	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	ND	ND	0.42	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	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	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	-	-	-	-	-	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	-	-	-	-	-	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	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	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	ND	ND	1.45	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	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	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	-	-	-	-	-	-	0.30	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	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	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	-	-	-	-	-	-	0.20	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	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	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	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	ND	ND	0.07	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	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	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	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	ND	1.2	1.15	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	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	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	-	-	-	-	-	-	0.42	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	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	7.3	2.4	5.07	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	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	ND	ND	0.22	5.0	

MW-8B
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	10/17	5/18	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	0.0473	-	0.42	
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	66.6	75.7	73.83	
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	11	3.5	12.41	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	9.89	11	11.32	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	9.06	5.32	8.89	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	5.7	2.13	3.06	
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	4.71	6	7.64	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	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	0.0283	-	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	0.111	-	0.18	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	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	0.004	-	0.00	0.05
Copper	ND		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	0.0033	0.0041	0.01	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	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	0.0057	-	0.01	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	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	ND	-	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0128	ND	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	0.021	-	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	241	207	261.76	
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	3.5	ND	4.41	
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	0.0676	-	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	39.4	27.7	28.10	
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	3.6	2.8	12.19	250.0
Color (PCU units)			10		12		18		70		30	20		7.5			0	7.5			ND	170	-	-	27	38	-	5	20	10	-	-	71.03	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	0.062	ND	0.11	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	2.4	0.62	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	0.0325	0.0096	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	4.2	6.6	8.69	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	4.0	7.4	5.4	4.4	2.2	5.3	2.8	2.6	ND	ND	3.2	4.0	2.9	6.2	3.8	3.5	2.59	4.6	4.8	5.9	15	6.84	
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	248	279	295.76	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	250	220	239.36	
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	3.4	0.79	2.39	
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	35	9.8	28.14	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																		

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	10/17	5/18	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	ND	1.5	0.58	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	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	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	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	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	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	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	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					0.39	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	
Chloroethane		ND		ND					0.57	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	
Chloroform				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	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	0.05	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	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	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	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					0.48	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	
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	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	-	-	-	-	-	ND	0.07	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	ND	2.8	1.96	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	0.01	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	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	ND	ND	0.21	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	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	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	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	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	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	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	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	ND	ND	0.64	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	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	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	0.05	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	-	-	-	-	-	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	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					0.57	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	
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	-	-	-	-	-	-	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	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	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	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	

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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum									2.3			ND		0.238			ND	0.59			0.12	ND	-	-	-	ND	-	ND	-	0.056	-	-	6.09	
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	-	-	52.44	
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	-	-	20.50	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	-	-	9.71	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	-	-	0.41	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	-	-	3.92	
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	-	-	3.39	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	-	0.02	-	-	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	-	0.001	-	-	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	-	0.006	-	-	0.10	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity									158	155						1.860			226	220		180	-	-	-	-	-	-	-	200	-	-	101.5	
Biochemical Oxygen Demand									-											ND		-	-	-	-	-	-	-	-	1.2	-	-	0.1	
Boron									ND			ND		ND			ND	ND				ND	-	-	-	-	-	ND	-	0.01	-	-	0.0	1.0
Chemical Oxygen Demand									14.9	23.4		19.2				ND	ND	ND	107	ND		6	-	30.3	-	-	-	-	ND	17.2	-	-	11.4	
Chromium (Hexavalent)									ND													ND	-	-	-	-	-	-	-	0.01	-	-	0.0	0.05
Chloride									5.4	4.2						5.86	6.59		5.5	60.7		5	-	4.3	-	-	-	-	-	5.9	-	-	7.2	250.0
Color (PCU units)									-													12	-	-	-	-	-	-	5	10	-	-	2.3	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	-	-	-	-	-	-	-	**0.003**	-	-	0.0	0.001
Sulfate									8.2	10.1						9.52	8.13		8.8	8.5		8.3	-	7.9	-	-	-	-	-	9.6	-	-	8.0	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	5.8	15.8	3.3	
Total Dissolved Solids (TDS)									244	177										240		215	-	228	-	-	-	-	-	225	-	-	149.8	500.0
Total Hardness									185	160		205			190	190	170		195		200	173	-	194	-	-	-	170	-	200	-	-	142.4	
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**	**229**	**38.3**	137.9	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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	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	10/17	5/18	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	ND	1.2	0.87	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	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	ND	1.8	1.95	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	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	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	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	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	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	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	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	ND	1.3	0.82	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	ND	ND	0.18	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	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	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	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	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	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	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	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	-	-	-	-	-	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	ND	ND	0.26	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	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	-	ND	0.92	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	18.1	15.5	18.32	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	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	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	62.3	54.4	26.31	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	ND	1.2	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	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	-	-	-	-	-	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	-	-	-	-	-	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	-	-	-	-	-	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	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	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	ND	ND	0.57	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	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	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	ND	ND	0.28	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	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	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	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	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	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	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	ND	ND	0.33	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	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	ND	1.8	3.97	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	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	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	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	8.8	10.2	10.67	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	ND	ND	0.06	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	ND	ND	0.10	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	10/17	5/18	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	0.03	ND	-	0.89	
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	77.1	76.4	65.47	
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	2.43	0.782	6.37	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	23.9	24.3	21.41	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	9.29	5.87	9.03	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	3.56	2.42	2.84	
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	8.83	8.99	9.46	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	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	0.012	-	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	0.055	0.087	-	0.08	1.0
Beryllium	ND		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	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	ND	-	0.02	0.05
Copper	ND		ND		0.01		ND		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	0.002	0.004	0.004	0.01	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	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	0.004	0.004	-	0.02	0.1
Selenium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	ND	0.006	-	ND	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	ND	-	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.005	-	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	0.004	0.007	-	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	392	269	283.9	
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	2.4	ND	3.9	
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	0.045	0.053	-	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	35.2	31.8	15.2	
Chromium (Hexavalent)	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	0.003	-	-	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	10.2	8.0	15.8	250.0
Color (PCU units)	50		ND		100		15		5		40	ND		10			0	12.5			5	39	-	-	8	22	-	ND	15	10	-	-	19.2	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	0.042	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	0.96	0.68	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	0.007	0.0096	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	4.4	5.0	6.4	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	3.0	1.4	3.9	3.6	4.0	3.6	3.4	3.9	3.0	3.1	1.65	5.2	ND	3.9	12.8	5.0	
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	337	335	312.2	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	300	300	266.0	
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	0.36	1.4	0.88	1.5	
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	15.6	0.60	114.3	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-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

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 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																																		

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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	10/17	5/18	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	-	3.8	3.40	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	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	-	4.4	2.00	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	-	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		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	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	-	-	-	-	-	-	0.00	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	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	-	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	-	10.9	1.41	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	-	ND	0.52	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	-	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	-	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	-	1.6	0.17	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	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	-	2.4	0.32	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	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	-	ND	0.46	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	-	8.4	3.54	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	-	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	-	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	-	14	6.43	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	-	ND	1.12	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	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	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	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	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	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	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	-	ND	0.26	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	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	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	-	-	-	-	-	-	0.17	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	0.21	ND	ND	ND	ND	ND	ND			ND	ND	0.77	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	0.35	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	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	-	-	-	-	-	-	0.10	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	-	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	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	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	-	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	-	ND	0.04	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	-	ND	0.06	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	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	-	2.0	1.78	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	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	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	-	-	-	-	-	-	0.05	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	-	-	-	-	-	-	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	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	-	8.1	1.94	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	0.03	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	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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum					3.2				ND			ND						ND				0.06	0	-	0.07	-	-	-	-	0.0369	-	-	0.63	
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	-	62.4	26.30	
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	-	2.98	15.69	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	-	24.4	9.30	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	-	ND	8.36	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	-	2.82	2.54	
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	-	11.2	4.08	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	-	-	0.16	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	-	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	-	0.0034	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	-	-	0.04	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	-	-	0.08	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																		
Alkalinity		205		90	175	67.1		229	218	150		62.5						374		210		-	-	299	-	-	80.8	-	-	179	-	264	113.4	
Biochemical Oxygen Demand					ND				4.9			4.5						12.2		11		-	-	-	-	-	4.1	-	-	9.6	-	7.6	4.3	
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	-	84.9	30.0	
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	-	10.8	4.8	250.0
Color (PCU units)					60				80			60						200				-	-	-	-	-	-	-	-	10	-	-	29.1	15.0
Nitrate-Nitrite		ND	0.04	ND	ND	ND		ND	ND	ND		ND						ND		ND		ND	-	ND	-	-	ND	-	ND	0.046	-	ND	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	-	3.1	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	-	0.0172	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	-	2.5	5.9	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	14.6	20	7.4	
Total Dissolved Solids (TDS)		262		125	283	99		304	402	174		190						388		280		115	-	320	-	-	96	-	-	170	-	315	148.8	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	-	290	106.5	
Total Kjeldahl Nitrogen (TKN)			14		4.3				3.9			1.1						2.2		2.09		0.85	-	-	-	-	-	-	1.1	3.8	-	5.7	2.3	
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	107	62.3	62.9	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	10/17	5/18	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	48.3	20.2	13.06	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		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	ND	5.7	3.99	1.0	
Bromobenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	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	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	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	ND	ND	0.31	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	-	-	-	-	-	-	-	0.03	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	ND	ND	0.06	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	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	ND	6.1	2.33	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	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	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	ND	0.16	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	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	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	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	-	-	-	-	-	-	ND	0.08	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	ND	2.6	1.85	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	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	-	ND	0.64	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	ND	ND	1.19	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	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	ND	ND	0.08	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	ND	3.6	3.36	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	ND	ND	0.36	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	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	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	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	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	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	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	ND	ND	0.77	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	-	-	-	-	-	-	-	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	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	-	-	-	-	-	-	-	0.30	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	ND	ND	0.22	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	0.41	1.6	ND	ND	0.48	ND	ND	ND	ND		1.1	ND	ND		ND	-	ND	ND	-	-	-	-	-	-	-	0.24	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	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	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	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	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	ND	ND	0.29	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	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	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	ND	ND	0.27	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	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	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	-	-	-	-	-	-	-	0.79	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	-	-	-	-	-	-	-	0.13	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		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	ND	1.7	1.94	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	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	ND	1.2	0.37	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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum			0.11		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	0.016	-	-	0.18	
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	-	118	83.06	
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	-	35	24.47	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	-	14.5	10.75	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	-	7.92	8.54	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	-	3.35	3.01	
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	-	6.92	9.10	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	-	-	-	-	0.056	-	-	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	-	-	1.31	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	-	-	6E-04	-	ND	0.00	0.005
Chromium (Total)			ND	ND	ND		ND		ND			ND						ND				0.003	-	-	0.003	-	-	-	-	0.022	-	-	0.00	0.05
Copper			ND		ND		ND		ND			ND						ND				ND	-	-	ND	-	-	-	-	0.004	-	-	0.00	0.2
Lead		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND						ND	ND			0.001	-	ND	ND	-	ND	-	-	0.003	-	0.003	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	-	-	-	-	0.006	-	-	0.03	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	-	-	278.7	
Biochemical Oxygen Demand			11		15.9		4.7		8.9			4.5						8.6		16		-	-	-	-	-	7.9	-	-	9.6	-	8.1	8.1	
Boron			ND		0.09		0.09		0.12			0.1						0.11				0.11	-	-	0.07	-	-	-	-	0.118	-	-	0.0	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	-	101	29.4	
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	-	6.1	7.0	250.0
Color (PCU units)			20		140		140		200			120						200				-	-	-	-	-	-	-	-	25	-	-	51.3	15.0
Nitrate-Nitrite		ND	ND	ND	ND	ND	0.07	ND	ND	ND		ND						ND	ND	ND		ND	-	ND	ND	-	ND	-	-	0.065	-	0.097	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	-	5.7	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	-	-	0.042	-	0.0253	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	-	2.3	2.4	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	24.9	25	9.3	
Total Dissolved Solids (TDS)		383	298	402	330	345	413	446	484	378		390						449	344	440		395	-	375	392	-	349	-	-	426	-	436	333.4	500.0
Total Hardness		260	214	341	319	288	268	343	277	274		328						345	228			255	-	286	314	-	259	-	-	340	-	410	259.9	
Total Kjeldahl Nitrogen (TKN)			8.4		5		6.3		6.5			5.2						2.4		3.52		7.11	-	-	6.91	-	-	-	-	8.2	-	8.9	3.6	
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	219	41.4	84.7	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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	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	10/17	5/18	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	ND	2.2	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	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	10.5	7.8	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	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	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	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	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	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	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	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	16.9	9.4	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	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	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	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	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	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	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	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	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	-	-	-	-	-	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	5.5	3.7	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	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	-	ND	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	5.1	4.3	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	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	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	ND	2.5	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	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	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	-	-	-	-	-	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	-	-	-	-	-	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	-	-	-	-	-	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	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	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	ND	1.6	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	ND	2.2	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	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	ND	2.9	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	10/17	5/18	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	0.0282	-	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	106	119	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**	**14.4**	**17.5**	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	20.8	22	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**	**9.04**	**7.62**	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	7.42	3.97	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	14.5	11.2	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	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	0.0095	-	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	0.439	-	0.45	1.0
Beryllium	ND		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	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	0.0069	-	0.01	0.05
Copper	ND		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	0.0035	0.0021	0.00	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	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	0.0063	-	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	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	ND	-	0.00	0.05
Thallium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	**0.0127**	ND	ND	**0.0044**	-	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	0.0087	-	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	483	378	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	6	13	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	0.165	-	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	73.3	64.5	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	16.3	9.1	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	1.4	ND	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**	**12.9**	**5.1**	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**	**0.0412**	**0.0057**	ND	**0.0406**	**0.0318**	**0.047**	**0.0578**	**0.0437**	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	1.3	1.9	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	19.5	20.8	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	201	457	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	520	450	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	14.3	6.7	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**	**87.2**	**43.8**	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.
<DL = Detected below method detection limit.
J = Estimated.
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	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

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 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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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	10/17	5/18	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	ND	1.7	0.27	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	-	-	-	-	-	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	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	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	-	-	-	-	-	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	ND	ND	1.10	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	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	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	ND	1.2	0.81	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	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	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	-	-	-	-	-	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	-	-	-	-	-	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	-	-	-	-	-	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	ND	ND	0.04	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	10/17	5/18	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	ND	-	2.48	
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	43.9	42.7	44.02	
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	0.106	0.357	7.77	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	11.9	12.1	11.52	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	0.0609	1.12	1.74	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	1.04	1.09	2.22	
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	10.2	8.94	8.30	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	ND	-	0.00	0.003
Arsenic	0		ND		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	0.0166	-	0.06	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	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	ND	-	0.02	0.05
Copper	ND		0.01		0.01		ND		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	ND	ND	0.00	0.025
Mercury	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	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	0.0012	-	0.02	0.1
Selenium	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	ND	-	0.00	0.05
Thallium	ND		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	0.0225	-	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	191	144	162.0	
Biochemical Oxygen Demand	ND		ND		2.5		ND		ND		ND	ND		ND			ND	ND		ND	ND	ND	-	-	ND	ND	ND	ND	ND	1	1	ND	2.4	
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	0.06	-	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	11.9	17.5	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	4.4	5.1	8.8	250.0
Color (PCU units)	100		5		200		25		15		60	18		5			60	80			ND	12	-	-	14	16	-	10	5	5	-	-	83.8	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	0.067	ND	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	0.032	0.1	0.07	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	0.0099	0.0015	0.0016	0.0034	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	5.8	5.1	12.8	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	3.4	14.7	13.7	
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	195	157	198.7	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	150	150	163.4	
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	0.42	0.14	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	17.7	10.2	83.9	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

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 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	10/17	5/18	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	ND	ND	0.48	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	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	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	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	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	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	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	ND	ND	0.29	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	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	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	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	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	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	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	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	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	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	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	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	-	-	-	-	-	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	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	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	-	-	-	-	-	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	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	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	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	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	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	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	-	-	-	-	-	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	-	-	-	-	-	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	-	-	-	-	-	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	ND	ND	0.00	5.0	

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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	10/17	5/18	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	ND	-	2.49	
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	52.8	59.4	60.62	
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	0.106	0.0518	4.76	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	13	14.3	17.34	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	0.0486	0.05	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	2.18	1.78	4.02	
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	8.54	9.46	14.96	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	0.12		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	0.0403	-	0.09	1.0
Beryllium	ND		ND		ND		ND		ND		ND	ND		ND			ND	ND				0.0002	-	-	ND	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	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	ND	-	0.02	0.05
Copper	ND		0.01		ND		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	0.0013	ND	0.00	0.025
Mercury	ND		ND	ND	ND		**0.01**		ND		ND	ND		ND			ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	0.00	0.0007
Nickel	ND		ND		ND		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	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	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	0.02		0.03		ND		ND		ND		0.015	0.016		0.01			0.015	ND				0.007	-	-	0.007	ND	-	ND	0.028	0.0016	0.0075	-	0.02	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	282	207	195.9	
Biochemical Oxygen Demand			ND															ND		ND	ND	ND	-	-	-	ND	ND	ND	-	1	1	ND	2.0	
Boron	ND		ND		ND		ND		ND		0.03	0.03		0.027			0.033	0.031				ND	-	-	ND	0.04	-	ND	ND	0.0215	0.0195	-	0.0	1.0
Chemical Oxygen Demand			ND	13	92.1	ND	ND	ND	ND	ND		ND			ND	ND	ND	ND	ND	20		ND	ND	ND	ND	ND	5.2	-	ND	13	24.6	17.5	5.5	
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	2.0	2.2	250.0
Color (PCU units)			5		**120**													ND			ND	7	-	-	13	14	-	5	**20**	10	-	-	27.2	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	0.55	ND	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	0.051	0.02	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	**0.0065**	**0.0043**	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	13.4	12.8	56.9	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	4.5	10.7	2.3	
Total Dissolved Solids (TDS)			305		259	215		229	278	232					255	245		238	215	350	240	215	223	229	228	211	231	209	-	249	225	202	284.6	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	190	190	231.8	
Total Kjeldahl Nitrogen (TKN)			ND		1.8		ND		ND			ND					ND	ND		ND	0.597	ND	-	-	ND	ND	-	ND	0.98	0.14	0.59	ND	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	**25**	**6.3**	133.3	5.0
Cyanide					ND		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. J = Estimated.
<DL = Detected below method detection limit. 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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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		0.027			
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
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	10/17	5/18	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	ND	2.4	1.13	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	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	ND	2.2	1.49	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	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	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	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	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	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	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	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	1.0	3.2	ND	ND	2.2	ND	ND	2.2	3.0	ND	ND	ND	ND	ND	3.0	1.32	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	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	ND	ND	0.05	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	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	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	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	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	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	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	-	-	-	-	-	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	ND	1.3	0.76	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	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	-	ND	0.35	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	ND	4.7	5.08	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	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	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	11.7	10.3	10.34	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	ND	ND	0.24	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	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	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	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	ND	ND	0.29	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	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	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	-	-	-	-	-	-	0.09	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	ND	ND	0.53	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	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	-	-	-	-	-	-	0.04	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	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	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	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	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	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	ND	ND	0.23	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	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	ND	ND	1.7	3.27	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	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	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	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	ND	3.4	3.44	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	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	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	10/17	5/18	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	0.056	-	0.07	
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	48.8	57.5	40.18	
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	9.27	15.9	17.17	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	14.7	17.8	12.81	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	9.25	9.69	8.21	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	4.39	3.77	3.04	
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	6.04	6.16	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	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	0.02	-	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	0.182	-	0.10	1.0
Beryllium			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0003	-	-	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	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	0.0036	-	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		0.005	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	ND	0.0024	0.00	0.025
Mercury			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0033	-	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	6E-05	-	0.01	0.1
Selenium			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.008	-	ND	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	ND	-	0.00	0.05
Thallium			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0141	ND	ND	0.0042	-	0.00	0.0005
Zinc			ND		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0028	-	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	231	201	174.4	
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	15.1	3.5	2.2	
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	0.0811	-	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	33	58.4	14.2	
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	4.8	6.1	8.4	250.0
Color (PCU units)			10		10		100		80		50	50		25			30	80			5	110	-	-	34	38	-	5	10	10	-	-	48.5	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	ND	ND	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	3.3	3.1	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	0.0172	0.0172	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	5.2	3.7	10.4	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	5.9	18.5	5.8	
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	237	262	228.5	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	250	250	161.2	
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	3.9	3.9	2.4	
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	28.5	15.3	31.3	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					
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
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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	10/17	5/18	MEAN	NYS STD	
PARAMETER VOLATILES (ug/L)																																			
Acetone							ND	ND	ND	3.1	4.9	2.0	ND	ND	ND	1.6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	0.54	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	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	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	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	0.34	ND	ND	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	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	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	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	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	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	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	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	ND	ND	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	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	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	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	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	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	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	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	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	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	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	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	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	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	ND	ND	ND	ND	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	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	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	ND	ND	0.16	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	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	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	0.02	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	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	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	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	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	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	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	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	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	0.01	5.0	

STREAM
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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	10/17	5/18	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	0.233	-	1.39	
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	32.4	33.8	23.11	
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	0.319	0.655	2.87	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	9.45	9.63	9.24	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	0.082	0.378	1.34	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	2.47	2.95	1.74	
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	3.52	3.61	2.72	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony					ND		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	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	0.011	0.015	-	0.02	1.0
Beryllium					ND		ND		ND		ND	ND		ND				ND			ND	4E-04	-	-	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	0.00	0.005
Chromium (Total)					ND		ND		ND		ND	ND		ND				ND			ND	0.001	-	-	ND	ND	-	ND	ND	ND	ND	-	0.00	0.05
Copper					ND		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	0.001	ND	0.00	0.025
Mercury					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	0.00	0.0007
Nickel					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	0.001	ND	-	0.01	0.1
Selenium					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	0.003	-	ND	ND	ND	ND	-	0.00	0.01
Silver					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	-	0.00	0.0005
Zinc					ND		ND		ND		ND	ND		ND				ND			ND	0.005	-	-	ND	ND	-	ND	ND	0.001	0.003	-	0.00	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	134	98.6	82.8	
Biochemical Oxygen Demand					ND		ND		ND		ND	ND		ND				ND		ND	6	ND	-	-	ND	ND	ND	ND	ND	1.2	1	7.7	0.6	
Boron					ND		0.06		ND		0.035	ND		0.069				ND			ND	0.07	-	-	ND	0.04	-	ND	ND	0.018	0.041	-	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	14	21.6	6.8	
Chromium (Hexavalent)					ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	-	ND	0.007	-	-	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	3.3	2.9	2.8	250
Color (PCU units)					5		10		25		30	20		ND				80			5	12	-	-	34	105	-	15	10	15	-	-	20.0	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	0.2	0.39	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	0.084	0.028	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	0.006	0.005	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	8.7	7.0	13.5	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	4.9	15.5	3.8	
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	148	143	118.1	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	116	120	83.8	
Total Kjeldahl Nitrogen (TKN)					ND		ND		ND		ND	ND		ND				ND		ND	ND	ND	-	-	0.49	0.86	-	0.17	0.18	0.48	0.15	0.21	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	46	40.3	18.3	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																																			
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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
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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	10/17	5/18	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	ND	ND	0.7846	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	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	ND	**1.0**	2.3558	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	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	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	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	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	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	-	-	-	-	-	-	0.0185	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	-	-	-	-	-	-	0.0577	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	ND	ND	0.0215	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	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	ND	1.6	2.8592	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	ND	ND	0.3638	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	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	ND	ND	0.0219	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	ND	ND	0.0169	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	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	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	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	ND	ND	0.0823	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	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	ND	ND	0.7573	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	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**	-	ND	0.41	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**	ND	1.4	5.25	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	ND	ND	0.0362	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	ND	ND	0.0085	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**	ND	**5.0**	13.158	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	ND	ND	0.2258	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	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	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	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	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	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	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	ND	ND	1.1038	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	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	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	-	-	-	-	-	-	0.1654	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	ND	ND	0.0331	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	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	-	-	-	-	-	-	0.4654	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	-	-	-	-	-	-	0.1654	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	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	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	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	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	ND	ND	0.1181	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	ND	ND	0.0885	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	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	ND	1.1	0.8496	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	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	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	-	-	-	-	-	-	0.4115	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	-	-	-	-	-	-	0.0462	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	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**	ND	**2.2**	2.9154	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	ND	ND	0.1665	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	ND	ND	0.8119	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	10/17	5/18	MEAN	NYS STD
PARAMETER METALS (mg/L)																																		
Aluminum							ND		ND		ND	ND		ND			ND	ND			ND	0.008	0	-	ND	ND	-	ND	ND	ND	0.147	-	0.0082	
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	32.9	75.7	74.088	
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	0.204	**3.44**	5.5359	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	9.62	11	17.512	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**	0.0492	**5.33**	6.1322	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	2.48	2.03	2.8615	
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	3.6	6.02	9.3331	20.0
PARAMETER (mg/l) TOXIC METALS																																		
Antimony							ND		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	ND	-	0.0042	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	0.0147	-	0.1321	1.0
Beryllium							ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	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	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	ND	-	0.0006	0.05
Copper							ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.02	ND	-	ND	ND	ND	ND	-	0.0011	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	ND	0.0028	0.0005	0.025
Mercury							ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	3E-06	0.0007
Nickel							ND		ND		ND	ND		ND			ND				ND	0.005	-	-	0.005	0.005	-	ND	ND	0.0036	ND	-	0.001	0.1
Selenium							ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	ND	-	0.0008	0.0
Silver							ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	0.001	0.001	-	ND	ND	ND	ND	-	1E-04	0.05
Thallium							ND		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	0.0021	-	0.0084	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	120	203	278.24	
Biochemical Oxygen Demand							6		ND		3.2	7.4		ND			ND	ND		ND	ND	4	-	-	14.2	3	ND	ND	ND	1	1	ND	1.99	
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	0.0411	-	0.0483	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	27.7	15.332	
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	3.2	2.9	11.162	250.0
Color (PCU units)							**140**		ND		**60**	**100**		**15**			0	**17.5**			5	**34**	-	-	**380**	**19**	-	5	10	10	-	-	41.868	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	0.21	ND	0.1474	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	0.055	0.7	2.4519	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	**0.0025**	**0.0123**	0.0093	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	8.6	6.5	7.19	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	4.7	13.5	5.3904	
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	147	257	311.62	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	120	260	257.2	
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	0.2	0.85	2.0475	
Turbidity (NTU units)							**22.5**	**7.4**	ND	**9.2**	**9**										0	0.3	-	-	**7.1**	ND	-	0.8	0.8	-	-	0	3.3588	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.