



# Fall 2020 Routine Semi-Annual Monitoring Event Water Quality Monitoring Report

Location:

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

Prepared for:

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

LaBella Project No. 2201342  
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Ischua Landfill  
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(NYSDEC Facility ID #05S20)

Fall 2020  
Semi-Annual Monitoring Routine Event  
Water Quality Monitoring Report

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## 1.0 INTRODUCTION

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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 Fall 2020 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

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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

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### 3.1 General Discussion

LaBella performed the Fall 2020 Monitoring Event sampling activities on October 5 and October 6, 2020. 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, insufficient well volume precluding sample collection from MW-6A, MW-6D, MW-7A, MW-9B, MW-11B, and MW-12B. Additionally, at the time of sample collection no water was observed in the STREAM or at the SEEP location, precluding sample collection.

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 1/100<sup>th</sup> 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.

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 are typically collected by direct submersion of a dedicated unpreserved sample bottle into the surface water. A dedicated, unpreserved sampling bottle is used to collect the surface water samples from these locations in order to fill sample bottles containing preservatives. Care is taken to not disturb the sediment during sample collection. The filled sample bottles are then transported to the laboratory under chain-of-custody using the procedures described in Section 3.6. However, insufficient surface water prohibited sampling these two locations as described in Section 3.1.

### **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, MW-6D, MW-7A, MW-9B, MW-12A, STREAM and SEEP. 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. Additionally, a trip blank was submitted and analyzed.

### **3.6 Shipping and Chain-of-Custody**

Sample containers were labeled in the field, placed on ice, and shipped by FedEx using properly signed seals to Pace under chain-of-custody protocols. The samples were relinquished to FedEx on October 6, 2020 and received by Pace October 7, 2020. 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**

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### **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 Fall 2020 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 generally consistent (within 1.5 times) with the sample results with the exception of the following:

- Total Hardness was detected in the DUP at a concentration 1.5 times higher than the concentration detected in MW-8B.
- Potassium was detected in MW-8B but was not detected in the DUP.

### 4.2.2 Trip Blank

The laboratory analytical results for the TRIP BLANK sample were non-detect for all VOC parameters.

## 5.0 ANALYTICAL RESULTS

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### 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 Fall 2020 Monitoring Event are summarized in Table 3. VOCs were detected above the applicable water quality standards in the samples collected from MW-8B, MW-10B, and MW-12B. 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 one sample (MW-10B) at a concentration of 1.5 µg/L.
- *Chlorobenzene* was reported above the 6NYCRR standard of 5.0 µg/L in one sample (MW-12B) at a concentrations of 6.1 µg/L.
- *1,1-Dichloroethane* was reported above the 6NYCRR standard of 5.0 µg/L in two samples (MW-10B and 12B) at concentrations of 12.1 µg/L and 6.8 µg/L, respectively.
- *cis-1,2-Dichloroethene* was reported above the 6NYCRR standard of 5.0 µg/L in two samples (MW-8B and MW-10B) at concentrations of 5.6 µg/L and 38.2 µg/L, respectively.
- *Vinyl Chloride* was reported above the 6NYCRR standard of 2.0 µg/L in two samples (MW-8B and MW-10B) at concentrations of 3.5 µg/L, and 10.5 µg/L, respectively.

The concentrations of these analytes detected in these locations were within historical ranges. LaBella will continue to evaluate these parameters during future sampling events for any indications of trends.



### 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 three samples (MW-8B, MW-10B, and MW-12B): exceedances ranged in concentration from 2.26 mg/L to 14.5 mg/L.
- *Manganese* was reported above the 6NYCRR standard of 0.3 mg/L in four samples (MW-7C, MW-8B, MW-10B, and MW-12B): exceedances ranged in concentration from 4.41 mg/L to 9.90 mg/L.

The concentrations of these analytes detected in these locations were within historical ranges.

### 5.2.3 Leachate Indicator Parameters

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

- *Ammonia-Nitrogen* was reported above the 6NYCRR standard of 2.0 mg/L in one sample (MW-12B) at a concentration of 9.90 mg/L.
- *Total Dissolved Solids* was reported above the 6NYCRR standard of 500 mg/L in one sample (MW-12B) at a concentration of 503 mg/L.

The concentrations of these analytes detected in these locations were within historical ranges.

### 5.2.4 Comparison of Sampling Results

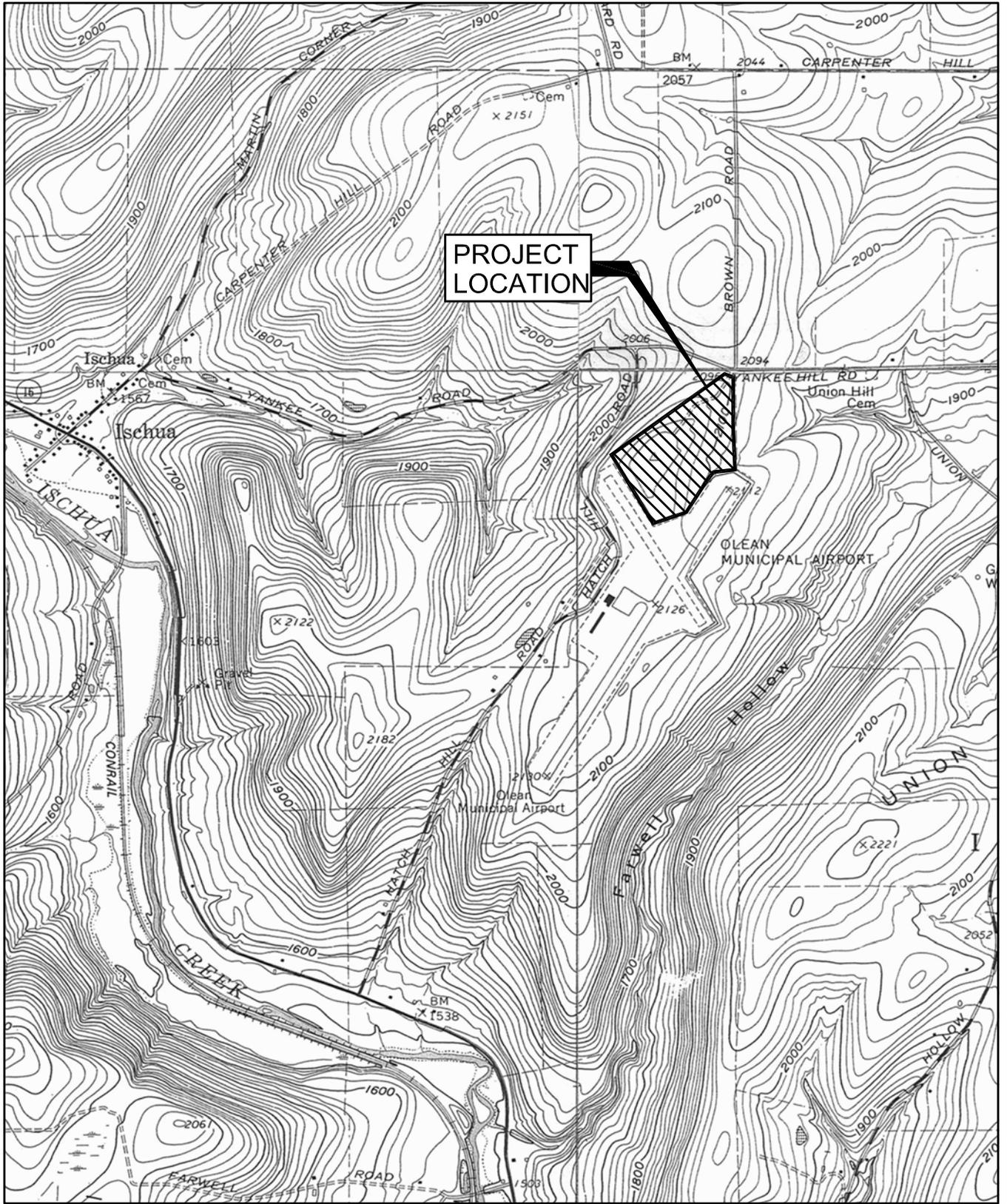
A tabular listing of the historical data associated with the permanent monitoring network is presented in Appendix D and includes historical data from September 1990 to the present for all monitoring points at the site. Included on each table is a mean concentration and current 6NYCRR groundwater standard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

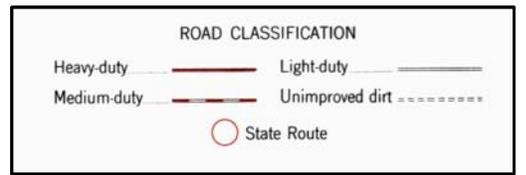
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The results of the Fall 2020 Monitoring Event appear generally consistent with the results from the previous sampling events at the site. The next semi-annual sampling event is scheduled for the Spring of 2021.

# FIGURES

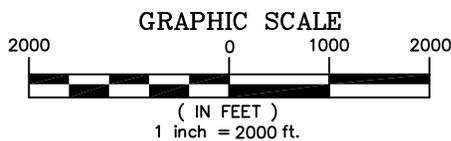


USGS QUADRANGLES – CUBA, FRANKLINVILLE,  
HINSDALE AND RAWSON, NEW YORK



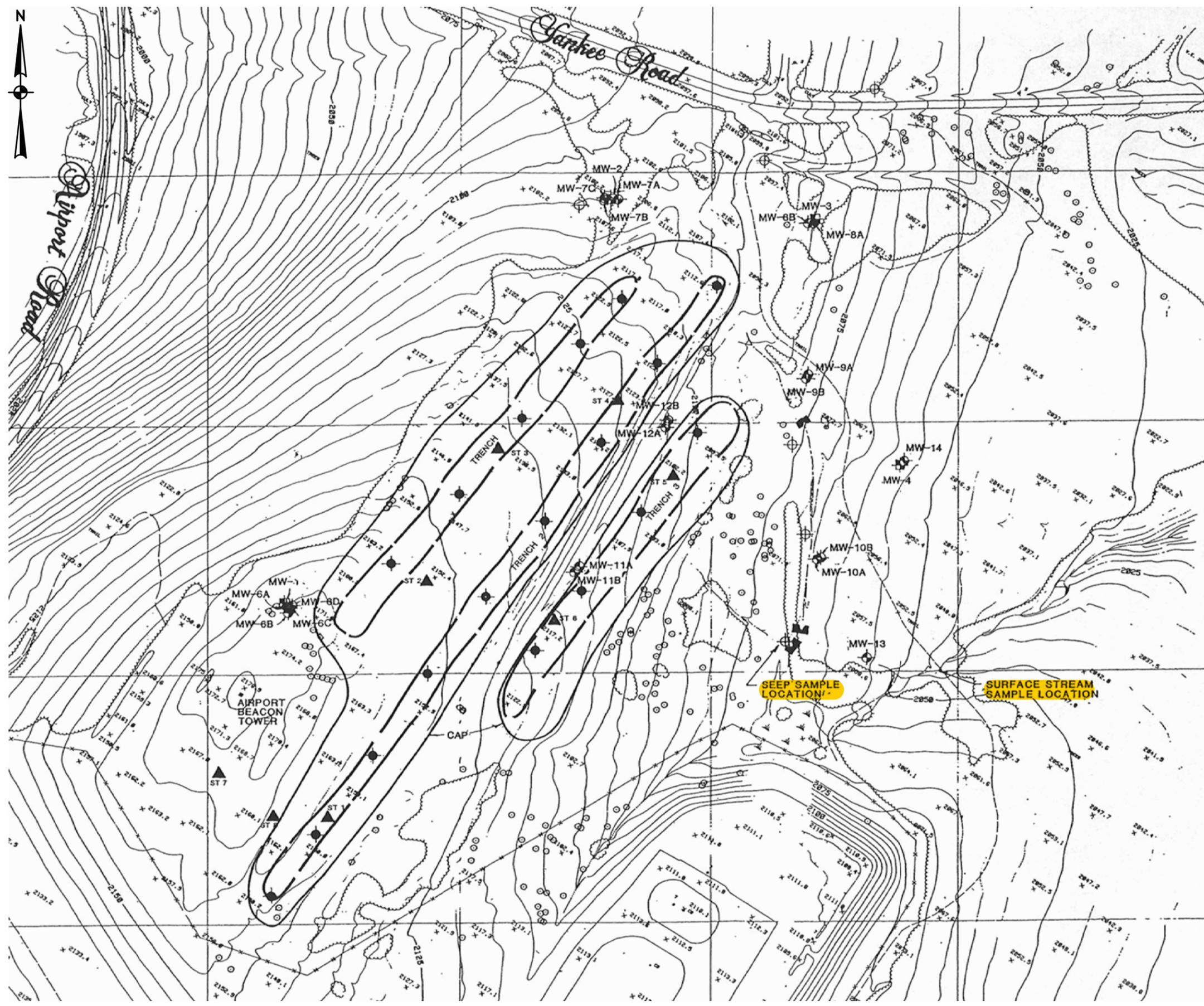
300 Pearl Street, Suite 130  
Buffalo, NY 14202  
716-551-6281

labellapc.com

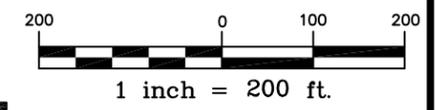


ISCHUA LANDFILL  
**FIGURE 1**  
SITE LOCATION MAP

File: J:\Clean\_City of 2181366 - 2018 Ischua Landfill Monitoring\Reports\2018 Spring\Figure 2 Site Map.DWG, Plot Date: 6/20/2018, By: BEVKLEMAN, 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



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ISCHUA LANDFILL  
**FIGURE 2**  
 SITE BASE MAP AND  
 ENVIRONMENTAL MONITORING LOCATIONS

# TABLES

Ischua Landfill  
Fall 2020  
Summary of Monitoring Well and  
Groundwater Depths

**TABLE 1**

Monitoring Well No.	Top of Casing Elevation	Depth to Well Bottom	Historical Elevations		Depth to Water Oct-20	Elevation of Water Oct-20	Compared to Last Event	Compared to Last Year
			Sep-19	Apr-20				
MW-6A	2173.1	17.19	NA	2156	NA	NA	NA	NA
MW-6D	2173.7	103.14	2073.5	2083.92	NA	NA	NA	NA
MW-7A	2109.3	11.64	2098.1	2105.44	11.52	2097.78	-7.7	-0.32
MW-7C	2109.3	40.3	2076.20	2082.50	36.63	2072.67	-9.8	-3.53
MW-8B	2089.6	25.65	2072.1	2077.15	18.74	2070.86	-6.3	-1.24
MW-9B	2081.1	32.43	NA	2050.02	32.14	2048.96	-1.1	NA
MW-10B	2066.2	33.69	2041.70	2048.00	26.45	2039.75	-8.3	-1.95
MW-11B	2115.1	18.07	2097.8	2103.3	17.41	2097.69	-5.6	-0.11
MW-12A	2108.3	12.68	NA	2099.63	12.48	2095.82	-3.8	NA
MW-12B	2107.5	20.9	2089.9	2097.24	17.60	2089.9	-7.3	0.00
MW-13	2058.7	11.44	2055	2055.38	6.45	2052.25	-3.1	-2.75
MW-14	2060.9	23.45	2043	2046.26	19.17	2041.73	-4.5	-1.27

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.



**Ischua Landfill  
Fall 2020  
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	**	**	**	-72.2	-40.2	**	-18.2	-36.1	**	-26.3	-58.1	-86.2	**	**		NA mV
Field pH	SU	**	**	**	6.31	5.76	**	5.20	5.53	**	5.37	6.27	6.61	**	**		6.5-8.5 SU
Field Specific Conductivity	mS/cm	**	**	**	0.473	0.436	**	0.440	0.312	**	0.634	0.336	0.341	**	**		NA mS/cm
Field Turbidity	NTU	**	**	**	42.10	8.81	**	3.10	39.24	**	16.20	9.00	23.04	**	**		5 NTU
Temperature	degC	**	**	**	9.3	10.0	**	9.8	11.5	**	11.6	11.6	10.9	**	**		NA degC
Dissolved Oxygen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	**	**		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

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 <sup>1</sup>	STREAM <sup>1</sup>	Duplicate	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units	
Collection Date		10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020	10/6/2020			
18540-29-9	BOD5	mg/l	-	-	-	ND	ND	-	2.1	-	-	9.0	ND	17.7	-	-	ND	NA mg/l	BOD5
	Color	Units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15 Units	Color
	Hexavalent Chromium	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 mg/l	Hexavalent Chromium
	Nitrate-Nitrogen	mg/l	-	-	-	0.099	0.060	-	0.490	-	-	0.08	0.048	0.072	-	-	0.045	10 mg/l	Nitrate-Nitrogen
	Alkalinity	mg/l CaCO3	-	-	-	355	317	-	327	-	-	508	215	211	-	-	289	NA mg/l CaCO3	Alkalinity
	Chloride	mg/l	-	-	-	5	9.7	-	8.1	-	-	10.9	4.0	2	-	-	10.7	250 mg/l	Chloride
	COD	mg/l	-	-	-	20.9	27.3	-	39.9	-	-	46.3	23	50.5	-	-	31.5	NA mg/l	COD
	Ammonia-Nitrogen	mg/l	-	-	-	ND	0.90	-	1.100	-	-	9.90	0.100	0.09	-	-	0.88	2 mg/l	Ammonia-Nitrogen
	Sulfate	mg/l	-	-	-	6.8	7.7	-	5.1	-	-	1.7	4.3	12.3	-	-	7.8	250 mg/l	Sulfate
	Total Cyanide	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2 mg/l	Total Cyanide
7664-41-7	Total Dissolved Solids	mg/l	-	-	-	342	343	-	345	-	-	503	268	255	-	-	330	500 mg/l	Total Dissolved Solids
	Total Kjeldahl Nitrogen	mg/l	-	-	-	0.68	1.3	-	1.60	-	-	9.2	1.2	1.7	-	-	1.50	NA mg/l	Total Kjeldahl Nitrogen
	TOC	mg/l	-	-	-	1.8	2.0	-	3.8	-	-	7.6	3.3	14	-	-	2.1	NA mg/l	TOC
	Total Phenols	mg/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	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
	7440-42-8	Boron	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 mg/l
Cadmium		mg/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	0.005 mg/l	Cadmium
Calcium		mg/l	-	-	-	101	86.6	-	78.9	-	-	130	60.7	60.2	-	-	88.8	NA mg/l	Calcium
Chromium		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05 mg/l	Chromium
Copper		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2 mg/l	Copper
Iron		mg/l	-	-	-	0.1040	2.30	-	2.26	-	-	14.5	0.0955	0.062	-	-	2.51	0.3 mg/l	Iron
Lead by furnace method		mg/l	-	-	-	ND	ND	-	0.003	-	-	0.003	ND	ND	-	-	ND	0.025 mg/l	Lead by furnace method
Magnesium		mg/l	-	-	-	16.4	12.6	-	24.8	-	-	26.8	13.5	14.4	-	-	13.0	35 mg/l	Magnesium
Manganese		mg/l	-	-	-	4.41	6.02	-	9.9	-	-	9.89	0.146	0.182	-	-	6.22	0.3 mg/l	Manganese
Mercury		mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0007 mg/l	Mercury
7440-42-8	Nickel	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1 mg/l	Nickel
	Potassium	mg/l	-	-	-	1.45	1.97	-	1.72	-	-	4.94	ND	2	-	-	ND	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	-	-	-	6.42	7.4	-	8.57	-	-	14.3	8.06	9.35	-	-	8.11	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	-	-	-	300	160	-	227	-	-	273	200	167	-	-	247	NA mg/l CaCO3	Calculated Hardness

"-" - Indicates 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 utilized.

		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 <sup>1</sup>	STREAM <sup>1</sup>	Duplicate	NYSDEC Part 703 Surfacewater and Groundwater Quality Standards	Units	
Acetone	67-64-1	ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	50.0 ug/l	Acetone	
Acrylonitrile	107-13-1	ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	Acrylonitrile	
Benzene	71-43-2	ug/l	-	-	-	ND	ND	-	1.5	-	-	ND	ND	ND	-	-	ND	1.0 ug/l	Benzene	
Bromobenzene	74-97-5	ug/l	-	-	-	ND	ND	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	Bromobenzene	
Bromochloromethane	75-27-4	ug/l	-	-	-	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	50.0 ug/l	Bromodichloromethane	
Bromoform	75-15-0	ug/l	-	-	-	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	5.0 ug/l	Bromomethane	
2-Butanone	108-90-7	ug/l	-	-	-	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	60.0 ug/l	Carbon disulfide	
Carbon tetrachloride	106-96-4	ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	Carbon tetrachloride	
Chlorobenzene	95-50-1	ug/l	-	-	-	ND	ND	-	1.0	-	-	6.1	ND	ND	-	-	ND	5.0 ug/l	Chlorobenzene	
Chloroethane	106-45-	ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	Chloroethane	
Chloroform		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	7.0 ug/l	Chloroform	
Chloromethane		ug/l	-	-	-	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	50.0 ug/l	Dibromochloromethane	
1,2-Dibromo-3-chloropropane		ug/l	-	-	-	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	5.0 ug/l	1,2-Dibromoethane	
Dibromomethane		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	Dibromomethane	
1,2-Dichlorobenzene		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	3.0 ug/l	1,2-Dichlorobenzene	
1,3-Dichlorobenzene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0 ug/l	1,3-Dichlorobenzene	
1,4-Dichlorobenzene		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	3.0 ug/l	1,4-Dichlorobenzene	
trans-1,4-Dichloro-2-butene		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	trans-1,4-Dichloro-2-butene	
Dichlorodifluoromethane		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	Dichlorodifluoromethane	
1,1-Dichloroethane	110-57-6	ug/l	-	-	-	ND	ND	-	12.1	-	-	6.8	ND	ND	-	-	ND	5.0 ug/l	1,1-Dichloroethane	
1,2-Dichloroethane	107-06-2	ug/l	-	-	-	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	5.0 ug/l	1,1-Dichloroethene	
cis-1,2-Dichloroethene		ug/l	-	-	-	ND	5.6	-	38.2	-	-	ND	ND	ND	-	-	5.4	5.0 ug/l	cis-1,2-Dichloroethene	
trans-1,2-Dichloroethene		ug/l	-	-	-	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	1.0 ug/l	1,2-Dichloropropane	
1,3-Dichloropropane		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,3-Dichloropropane	
2,2-Dichloropropane		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	2,2-Dichloropropane	
1,1-Dichloropropene		ug/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0 ug/l	1,1-Dichloropropene	
cis-1,3-Dichloropropene		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	0.4 ug/l	cis-1,3-Dichloropropene	
trans-1,3-Dichloropropene	1006-01-5	ug/l	-	-	-	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	5.0 ug/l	Ethylbenzene	
2-Hexanone	591-78-6	ug/l	-	-	-	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	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	5.0 ug/l	Methylene chloride	
4-Methyl-2-pentanone	108-10-1	ug/l	-	-	-	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	5.0 ug/l	Styrene	
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	-	-	-	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	5.0 ug/l	1,1,2,2-Tetrachloroethane	
Tetrachloroethene	127-18-4	ug/l	-	-	-	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	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	5.0 ug/l	1,1,1-Trichloroethane	
1,1,2-Trichloroethane		ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	1.0 ug/l	1,1,2-Trichloroethane	
Trichloroethene		ug/l	-	-	-	ND	ND	-	1.0	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	Trichloroethene	
Trichlorofluoromethane		ug/l	-	-	-	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	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	NA ug/l	Vinyl acetate	
Vinyl chloride	75-01-4	ug/l	-	-	-	ND	3.5	-	10.5	-	-	1.1	ND	ND	-	-	3.4	2.0 ug/l	Vinyl chloride	
Total-Xylene	1330-20-7	ug/l	-	-	-	ND	ND	-	ND	-	-	ND	ND	ND	-	-	ND	5.0 ug/l	p-Xylene & m-Xylene	

"" - Indicates the parameter was not analyzed

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

1.00 Value exceeds regulatory standard

# APPENDIX A

## Field Sampling Logs



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 *10/05/20*

**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): \_\_\_\_\_ 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						
/ 2						
/ 3						

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

**Sampling Information:** Date: **4/** /2020

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

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

DRY      Cannot Sample

X Purger's / X Sampler's Name(s) and Initials



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 *10/5/20*

**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): \_\_\_\_\_ Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): \_\_\_\_\_ 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  Field Parameters Start Time: \_\_\_\_\_

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

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

**Sampling Information:** Date: *4/* /2020

Sample Time: \_\_\_\_\_ Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

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

### Sample Field Parameters

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

Other Comments:

*Meters = 103.4' DRY Not Able to Sample*

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 10/5/2020

**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): 11.52 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): 0.02 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: \_\_\_\_\_

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	—	—	—	—	—	Not enough water
/ 1						
/ 2						
/ 3						

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

**Sampling Information:** Date: ~~4/~~ /2020 10/6/2020

Sample Time: \_\_\_\_\_ Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

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

### Sample Field Parameters

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

Other Comments: *Use Bailer water once removed. Do not dump that.*

*Dry*

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 10/5/2020

**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): **36.63** Height of Water Column (ft):

1 Well Volume [WV] (gal): **0.59** 3 WV (gal): 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other:

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

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= gal] Characteristics
Initial / 0	-91.1	6.74	9.5	0.495	0.55	
/ 1	-79.5	6.50	9.1	0.479	14.33	
/ 2	-72.9	6.34	9.1	0.472	26.96	
/ 3	-72.4	6.34	9.4	0.471	46.19	

Total Volume Purged (gal): **~1.6** Complete Time: Water Level (ft):

**Sampling Information:** Date: **4/** /2020

Sample Time: **1000** Water Level(ft): Sample Analysis: **Routine Event/No. of Bottles:**

Sample Date = 10/6/2020

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

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
-72.2	6.31	9.3	0.473	42.1	

Other Comments:

Must be given time to recover. Wait well

Able to sample for All.

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 10/5/2020

**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): 18.74 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): 1.10 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	-62.9	6.41	10.7	0.491	18.61	
/ 1	-48.1	5.82	10.1	0.457	19.40	
/ 2	-43.6	5.76	9.8	0.451	24.57	
/ 3	-40.2	5.76	10.0	0.436	8.81	

Total Volume Purged (gal): 13.0 Complete Time: \_\_\_\_\_ Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: ~~4/~~ /2020 10/6/2020

Sample Time: 9:10 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

Other Comments:

Field Duplicate  
Able to sample for All

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



# 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: \_\_\_\_\_  
Sampling Event: Spring 2020- Routine  
Date: 4/ 10/5 /2020

**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): 32.56 **32.43** Water Level (ft): 32.14 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): 0.06 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: \_\_\_\_\_

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

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

**Sampling Information:** Date: 4/ 10/5 /2020

Sample Time: \_\_\_\_\_ Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:** \_\_\_\_\_

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

### Sample Field Parameters

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

Other Comments:

*DRY cannot sample*

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: **4/ /2020** *10/5/2020*

**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): *26.45*      Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): *1.12*      3 WV (gal): \_\_\_\_\_      5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  Field Parameters      Start Time: \_\_\_\_\_

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	-33.1	5.52	10.1	0.438	-1.50	
/ 1	-27.4	5.40	9.8	0.464	3.70	
/ 2	-20.1	5.24	9.6	0.467	4.04	
/ 3	-16.6	5.15	9.5	0.466	-1.63	

Total Volume Purged (gal): *~3.5*      Complete Time: \_\_\_\_\_      Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: ~~4/ /2020~~ *10/6/2020*

Sample Time: *0805*      Water Level(ft): \_\_\_\_\_      Sample Analysis: **Routine Event/No. of Bottles:**

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

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
-18.2	5.20	9.8	0.440	3.1	

Other Comments: *MS/MSO  
All samples obtained*

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 10/5/20

**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): 17.41 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): 0.11 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: \_\_\_\_\_

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	<u>36.1</u>	<u>5.53</u>	<u>11.5</u>	<u>0.312</u>	<u>39.24</u>	
/ 1						
/ 2						
/ 3						

Total Volume Purged (gal): — Complete Time: \_\_\_\_\_ Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: ~~4/~~ /2020 10/6/2020

Sample Time: 1045 Water Level(ft): — Sample Analysis: **Routine Event/No. of Bottles:**  
10/6/2020

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

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Well DRY</u>

Other Comments:

Wait well. Should be Purged well before sampling.

Able to sample for 1 vials only! well was well dry 1/20 minutes

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /~~2020~~ 10/5/20

**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): 12.48 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): 0.32 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: **Dedicated Bailer**  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: \_\_\_\_\_

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

Total Volume Purged (gal): 0 Complete Time: \_\_\_\_\_ Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: ~~4/~~ /~~2020~~ 10/6/2020

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

Other Comments:  
Wait well due to turbidity

*Not able to SAMPLE  
well DRY*

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020- 10/5/20

**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): 17.60 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): 0.5 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other: \_\_\_\_\_

Purge  Field Parameters Start Time: \_\_\_\_\_

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	<u>-24.9</u>	<u>5.36</u>	<u>11.7</u>	<u>0.580</u>	<u>29.13</u>	
/ 1	<u>-26.3</u>	<u>5.37</u>	<u>11.6</u>	<u>0.634</u>	<u>16.20</u>	<u>well went dry</u>
/ 2						
/ 3						

Total Volume Purged (gal): ~0.5 Complete Time: \_\_\_\_\_ Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: ~~4/~~ /2020- 10/6/2020

Sample Time: 1030 Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

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

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
—	—	—	—	—	<u>well went DRY for last sample</u>

Other Comments:  
Try to get almost all. Sample for all.

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 10/5/2020

**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): 6.45 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): .8 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other: \_\_\_\_\_

**Purge  Field Parameters Start Time:** \_\_\_\_\_

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	<u>57.5</u>	<u>6.18</u>	<u>10.7</u>	<u>0.333</u>	<u>0.77</u>	
/ 1	<u>46.2</u>	<u>5.81</u>	<u>10.7</u>	<u>0.352</u>	<u>8.58</u>	
/ 2	<u>46.9</u>	<u>5.85</u>	<u>10.6</u>	<u>0.351</u>	<u>31.30</u>	
/ 3						

Total Volume Purged (gal): ~2.0 Complete Time: \_\_\_\_\_ Water Level (ft): 11.44 - DRY

**Sampling Information:** Date: 4/ /2020

Sample Time: 840 Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**  
10/06/2020

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

### Sample Field Parameters

Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	Characteristics
<u>58.1</u>	<u>6.27</u>	<u>11.6</u>	<u>0.336</u>	<u>9.0</u>	

Other Comments:  
Requires some wait time after purging. Able to sample for All.

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: ~~4/~~ /2020 10/5/2020

**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): 19.17 Height of Water Column (ft): \_\_\_\_\_

1 Well Volume [WV] (gal): .68 3 WV (gal): \_\_\_\_\_ 5 WV (gal): [Not Applicable]

Method of Purging: Dedicated Bailer  / Other: \_\_\_\_\_

**Purge**  **Field Parameters** Start Time: \_\_\_\_\_

Vol (gal)/WV	Eh (mV)	pH (SU)	Temp. (°C)	Cond. (mS/cm)	Turb. (NTU)	[Totalizer Start= _____ gal] Characteristics
Initial / 0	86.2	6.39	11.0	0.335	3.37	
/ 1	86.0	6.61	10.9	0.341	33.04	
/ 2						
/ 3						

Total Volume Purged (gal): ~1.0 Complete Time: \_\_\_\_\_ Water Level (ft): \_\_\_\_\_

**Sampling Information:** Date: ~~4/~~ /2020 10/6/2020

Sample Time: 740 Water Level(ft): \_\_\_\_\_ Sample Analysis: **Routine Event/No. of Bottles:**

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

### Sample Field Parameters

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

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

Not able to grab All samples  
⊗ Lab stated would be able to run all tests.

Purger's /  Sampler's Name(s) and Initials:



# 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:  
Sampling Event: Spring 2020- Routine  
Date: 4/ /2020

Purge not required on this sample- Surface water

DRY

**Sampling Information:** Date: 4/ /2020

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 [For SW & SEEP Only: D.O. = _____ mg/L]

Other Comments:

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



# 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:  
Sampling Event: Spring 2020- Routine  
Date: **4/ /2020**

Purge not required on this sample- Surface water

DRY

**Sampling Information:** Date: **4/ /2020**

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

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

### Sample Field Parameters

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

Other Comments:

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

# APPENDIX B

## Chain-of-Custody





# APPENDIX C

Analytical Laboratory Report

October 21, 2020

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

RE: Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Dear Andrew Benkleman:

Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Rebeka K. Smith  
rebeka.smith@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Shannon Dalton, LaBella Associates



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

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### **Pace Analytical Services Long Island**

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

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## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

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**Method:** EPA 6010C

**Description:** 6010 MET ICP

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 6010C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Sample Preparation:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

QC Batch: 181112

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70148482003

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

- MS (Lab ID: 883171)

- Manganese

**Duplicate Sample:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** October 21, 2020

### General Information:

8 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. 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.

QC Batch: 180987

IC: The initial calibration for this compound was outside of method control limits. The result is estimated.

- BLANK (Lab ID: 882768)
  - Acetone
- DUP (Lab ID: 70148482007)
  - Acetone
- LCS (Lab ID: 882769)
  - Acetone
- MS (Lab ID: 884227)
  - Acetone
- MSD (Lab ID: 884228)
  - Acetone
- MW-10B (Lab ID: 70148482003)
  - Acetone
- MW-12B (Lab ID: 70148482004)
  - Acetone
- MW-13 (Lab ID: 70148482005)
  - Acetone
- MW-14 (Lab ID: 70148482006)
  - Acetone
- MW-7C (Lab ID: 70148482001)
  - Acetone
- MW-8B (Lab ID: 70148482002)
  - Acetone
- TRIP BLANK (Lab ID: 70148482008)
  - Acetone

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- DUP (Lab ID: 70148482007)
  - Vinyl chloride
- LCS (Lab ID: 882769)
  - Bromomethane
  - Vinyl chloride
- MS (Lab ID: 884227)
  - Bromomethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** October 21, 2020

QC Batch: 180987

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- Vinyl chloride
- MSD (Lab ID: 884228)
  - Bromomethane
  - Vinyl chloride
- MW-10B (Lab ID: 70148482003)
  - Vinyl chloride
- MW-12B (Lab ID: 70148482004)
  - Vinyl chloride
- MW-8B (Lab ID: 70148482002)
  - Vinyl chloride

IL: This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.

- BLANK (Lab ID: 882768)
  - 2-Butanone (MEK)
- DUP (Lab ID: 70148482007)
  - 2-Butanone (MEK)
- LCS (Lab ID: 882769)
  - 2-Butanone (MEK)
- MS (Lab ID: 884227)
  - 2-Butanone (MEK)
- MSD (Lab ID: 884228)
  - 2-Butanone (MEK)
- MW-10B (Lab ID: 70148482003)
  - 2-Butanone (MEK)
- MW-12B (Lab ID: 70148482004)
  - 2-Butanone (MEK)
- MW-13 (Lab ID: 70148482005)
  - 2-Butanone (MEK)
- MW-14 (Lab ID: 70148482006)
  - 2-Butanone (MEK)
- MW-7C (Lab ID: 70148482001)
  - 2-Butanone (MEK)
- MW-8B (Lab ID: 70148482002)
  - 2-Butanone (MEK)
- TRIP BLANK (Lab ID: 70148482008)
  - 2-Butanone (MEK)

### Continuing Calibration:

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

QC Batch: 180987

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

- LCS (Lab ID: 882769)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** October 21, 2020

QC Batch: 180987

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

- Acetone
- Bromoform
- Bromomethane
- MS (Lab ID: 884227)
  - Acetone
  - Bromoform
  - Bromomethane
- MSD (Lab ID: 884228)
  - Acetone
  - Bromoform
  - Bromomethane

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

- BLANK (Lab ID: 882768)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- DUP (Lab ID: 70148482007)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- LCS (Lab ID: 882769)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MS (Lab ID: 884227)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MSD (Lab ID: 884228)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MW-10B (Lab ID: 70148482003)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MW-12B (Lab ID: 70148482004)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MW-13 (Lab ID: 70148482005)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** October 21, 2020

QC Batch: 180987

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

- MW-14 (Lab ID: 70148482006)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MW-7C (Lab ID: 70148482001)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- MW-8B (Lab ID: 70148482002)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene
- TRIP BLANK (Lab ID: 70148482008)
  - 2,2-Dichloropropane
  - Vinyl acetate
  - trans-1,4-Dichloro-2-butene

**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.

QC Batch: 180987

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

- LCS (Lab ID: 882769)
  - Bromomethane

**Matrix Spikes:**

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

QC Batch: 180987

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70148482003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 884228)
  - Bromomethane

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 8260C/5030C

**Description:** 8260C Volatile Organics

**Client:** LaBella Associates

**Date:** October 21, 2020

QC Batch: 180987

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70148482003

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

- MS (Lab ID: 884227)
  - 1,2-Dibromo-3-chloropropane
  - 2,2-Dichloropropane
  - Iodomethane
  - trans-1,3-Dichloropropene
  - trans-1,4-Dichloro-2-butene
- MSD (Lab ID: 884228)
  - 2,2-Dichloropropane
  - trans-1,3-Dichloropropene

R1: RPD value was outside control limits.

- MSD (Lab ID: 884228)
  - Iodomethane

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 8260

**Description:** TIC MSV Water

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

8 samples were analyzed for EPA 8260 by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** SM22 2320B

**Description:** 2320B Alkalinity

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for SM22 2320B by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** SM22 2340C

**Description:** 2340C Hardness, Total

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for SM22 2340C by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** SM22 2540C

**Description:** 2540C Total Dissolved Solids

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for SM22 2540C by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 410.4

**Description:** 410.4 COD

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 410.4 by Pace Analytical Services Melville. 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.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** SM22 5210B

**Description:** 5210B BOD, 5 day

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for SM22 5210B by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 300.0 by Pace Analytical Services Melville. 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 10/6

Pace Project No.: 70148482

---

**Method:** EPA 351.2

**Description:** 351.2 Total Kjeldahl Nitrogen

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 351.2 by Pace Analytical Services Melville. 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: 181676

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70148482003,70149714002

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

- MS (Lab ID: 886526)
- Nitrogen, Kjeldahl, Total

**Duplicate Sample:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO2

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 353.2 by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** EPA 420.1

**Description:** Phenolics, Total Recoverable

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for EPA 420.1 by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** SM22 4500 NH3 H

**Description:** 4500 Ammonia Water

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for SM22 4500 NH3 H by Pace Analytical Services Melville. 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:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

---

**Method:** SM22 5310B

**Description:** 5310B TOC as NPOC

**Client:** LaBella Associates

**Date:** October 21, 2020

**General Information:**

7 samples were analyzed for SM22 5310B by Pace Analytical Services Melville. 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.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-7C	Lab ID: 70148482001	Collected: 10/06/20 10:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Pace Analytical Services - Melville								
Cadmium	<2.5	ug/L	2.5	1	10/08/20 13:16	10/13/20 13:12	7440-43-9	
Calcium	101000	ug/L	200	1	10/08/20 13:16	10/13/20 13:12	7440-70-2	
Iron	104	ug/L	20.0	1	10/08/20 13:16	10/13/20 13:12	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/08/20 13:16	10/13/20 13:12	7439-92-1	
Magnesium	16400	ug/L	200	1	10/08/20 13:16	10/13/20 13:12	7439-95-4	
Manganese	4410	ug/L	10.0	1	10/08/20 13:16	10/13/20 13:12	7439-96-5	
Potassium	1450J	ug/L	5000	1	10/08/20 13:16	10/13/20 13:12	7440-09-7	
Sodium	6420	ug/L	5000	1	10/08/20 13:16	10/13/20 13:12	7440-23-5	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 15:56	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 15:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 15:56	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 15:56	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/12/20 15:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 15:56	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 15:56	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 15:56	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 15:56	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 15:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 15:56	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 15:56	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 15:56	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 15:56	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 15:56	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 15:56	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 15:56	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 15:56	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 15:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 15:56	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 15:56	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 15:56	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 15:56	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 15:56	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 15:56	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 15:56	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 15:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 15:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 15:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 15:56	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 15:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 15:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/12/20 15:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 15:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 15:56	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-7C	Lab ID: 70148482001	Collected: 10/06/20 10:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	ND	ug/L	5.0	1		10/12/20 15:56	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 15:56	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 15:56	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 15:56	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 15:56	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 15:56	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 15:56	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 15:56	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 15:56	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 15:56	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 15:56	80-62-6	
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 15:56	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 15:56	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 15:56	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 15:56	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 15:56	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 15:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 15:56	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 15:56	108-05-4	CL
Vinyl chloride	<1.0	ug/L	1.0	1		10/12/20 15:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 15:56	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 15:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 15:56	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 15:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 15:56	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 15:56	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	68-153	1		10/12/20 15:56	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		10/12/20 15:56	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		10/12/20 15:56	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:05		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	<b>355</b>	mg/L	1.0	1		10/08/20 11:58		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	<b>300</b>	mg/L	5.0	1		10/20/20 15:40		

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Sample: MW-7C	Lab ID: 70148482001	Collected: 10/06/20 10:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<b>342</b>	mg/L	10.0	1		10/08/20 10:39		
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<b>20.9</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 10:59		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	10/07/20 13:06	10/12/20 08:58		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<b>0.29J</b>	mg/L	0.50	1		10/10/20 01:37	24959-67-9	
Chloride	<b>5.0</b>	mg/L	2.0	1		10/10/20 01:37	16887-00-6	
Sulfate	<b>6.8</b>	mg/L	5.0	1		10/10/20 01:37	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<b>0.68</b>	mg/L	0.10	1	10/16/20 07:23	10/16/20 13:33	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<b>0.098</b>	mg/L	0.050	1		10/07/20 23:07	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.099</b>	mg/L	0.050	1		10/07/20 23:07	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:27	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:35		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<b>&lt;0.10</b>	mg/L	0.10	1		10/20/20 13:34	7664-41-7	
<b>5310B TOC as NPOC</b>	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	<b>1.8</b>	mg/L	1.0	1		10/20/20 11:53	7440-44-0	

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-8B	Lab ID: 70148482002	Collected: 10/06/20 09:10	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Pace Analytical Services - Melville								
Cadmium	<2.5	ug/L	2.5	1	10/08/20 13:16	10/13/20 13:14	7440-43-9	
Calcium	86600	ug/L	200	1	10/08/20 13:16	10/13/20 13:14	7440-70-2	
Iron	2300	ug/L	20.0	1	10/08/20 13:16	10/13/20 13:14	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/08/20 13:16	10/13/20 13:14	7439-92-1	
Magnesium	12600	ug/L	200	1	10/08/20 13:16	10/13/20 13:14	7439-95-4	
Manganese	6020	ug/L	10.0	1	10/08/20 13:16	10/13/20 13:14	7439-96-5	
Potassium	1970J	ug/L	5000	1	10/08/20 13:16	10/13/20 13:14	7440-09-7	
Sodium	7420	ug/L	5000	1	10/08/20 13:16	10/13/20 13:14	7440-23-5	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 16:15	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 16:15	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 16:15	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 16:15	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/12/20 16:15	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 16:15	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 16:15	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 16:15	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 16:15	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 16:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 16:15	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 16:15	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 16:15	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 16:15	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:15	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 16:15	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:15	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 16:15	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 16:15	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 16:15	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 16:15	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 16:15	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 16:15	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 16:15	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 16:15	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 16:15	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 16:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 16:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 16:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 16:15	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 16:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 16:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/12/20 16:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 16:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 16:15	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-8B	Lab ID: 70148482002	Collected: 10/06/20 09:10	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	ND	ug/L	5.0	1		10/12/20 16:15	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 16:15	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 16:15	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 16:15	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 16:15	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 16:15	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 16:15	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 16:15	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 16:15	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 16:15	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 16:15	80-62-6	
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 16:15	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 16:15	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 16:15	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 16:15	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 16:15	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 16:15	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 16:15	108-05-4	CL
Vinyl chloride	3.5	ug/L	1.0	1		10/12/20 16:15	75-01-4	IH
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 16:15	1330-20-7	
cis-1,2-Dichloroethene	5.6	ug/L	5.0	1		10/12/20 16:15	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 16:15	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 16:15	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 16:15	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 16:15	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	68-153	1		10/12/20 16:15	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-124	1		10/12/20 16:15	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		10/12/20 16:15	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:07		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	317	mg/L	1.0	1		10/08/20 12:12		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	160	mg/L	5.0	1		10/20/20 15:40		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Sample: MW-8B	Lab ID: 70148482002	Collected: 10/06/20 09:10	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<b>343</b>	mg/L	10.0	1		10/08/20 10:39		
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<b>27.3</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 11:00		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	10/07/20 13:09	10/12/20 09:00		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<b>0.19J</b>	mg/L	0.50	1		10/10/20 01:53	24959-67-9	
Chloride	<b>9.7</b>	mg/L	2.0	1		10/10/20 01:53	16887-00-6	
Sulfate	<b>7.7</b>	mg/L	5.0	1		10/10/20 01:53	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<b>1.3</b>	mg/L	0.10	1	10/16/20 07:23	10/16/20 13:34	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<b>0.057</b>	mg/L	0.050	1		10/07/20 23:08	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.060</b>	mg/L	0.050	1		10/07/20 23:08	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:28	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:35		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<b>0.90</b>	mg/L	0.10	1		10/20/20 13:35	7664-41-7	
<b>5310B TOC as NPOC</b>	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	<b>2.0</b>	mg/L	1.0	1		10/20/20 12:04	7440-44-0	

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-10B	Lab ID: 70148482003	Collected: 10/06/20 08:05	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Pace Analytical Services - Melville								
Cadmium	<2.5	ug/L	2.5	1	10/13/20 10:58	10/15/20 02:16	7440-43-9	
Calcium	78900	ug/L	200	1	10/13/20 10:58	10/15/20 02:16	7440-70-2	
Iron	2260	ug/L	20.0	1	10/13/20 10:58	10/15/20 02:16	7439-89-6	
Lead	3.2J	ug/L	5.0	1	10/13/20 10:58	10/15/20 02:16	7439-92-1	
Magnesium	24800	ug/L	200	1	10/13/20 10:58	10/15/20 02:16	7439-95-4	
Manganese	9900	ug/L	10.0	1	10/13/20 10:58	10/15/20 02:16	7439-96-5	M1
Potassium	1720J	ug/L	5000	1	10/13/20 10:58	10/15/20 02:16	7440-09-7	
Sodium	8570	ug/L	5000	1	10/13/20 10:58	10/15/20 02:16	7440-23-5	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/12/20 16:34	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		10/12/20 16:34	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		10/12/20 16:34	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		10/12/20 16:34	79-00-5	
1,1-Dichloroethane	12.1	ug/L	1.0	1		10/12/20 16:34	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		10/12/20 16:34	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 16:34	563-58-6	
1,2,3-Trichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:34	96-18-4	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		10/12/20 16:34	96-12-8	M1
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		10/12/20 16:34	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 16:34	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		10/12/20 16:34	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:34	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 16:34	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:34	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 16:34	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:34	594-20-7	CL,M1
2-Butanone (MEK)	<5.0	ug/L	5.0	1		10/12/20 16:34	78-93-3	IL
2-Hexanone	<5.0	ug/L	5.0	1		10/12/20 16:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		10/12/20 16:34	108-10-1	
Acetone	<5.0	ug/L	5.0	1		10/12/20 16:34	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 16:34	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 16:34	107-02-8	
Acrylonitrile	<1.0	ug/L	1.0	1		10/12/20 16:34	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 16:34	107-05-1	
Benzene	1.5	ug/L	1.0	1		10/12/20 16:34	71-43-2	
Bromochloromethane	<1.0	ug/L	1.0	1		10/12/20 16:34	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	1		10/12/20 16:34	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		10/12/20 16:34	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		10/12/20 16:34	74-83-9	L1,M0
Carbon disulfide	<1.0	ug/L	1.0	1		10/12/20 16:34	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		10/12/20 16:34	56-23-5	
Chlorobenzene	1.0	ug/L	1.0	1		10/12/20 16:34	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		10/12/20 16:34	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		10/12/20 16:34	67-66-3	

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-10B	Lab ID: 70148482003	Collected: 10/06/20 08:05	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	<1.0	ug/L	1.0	1		10/12/20 16:34	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 16:34	126-99-8	
Dibromochloromethane	<1.0	ug/L	1.0	1		10/12/20 16:34	124-48-1	
Dibromomethane	<1.0	ug/L	1.0	1		10/12/20 16:34	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 16:34	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 16:34	97-63-2	
Ethylbenzene	<1.0	ug/L	1.0	1		10/12/20 16:34	100-41-4	
Iodomethane	<4.0	ug/L	4.0	1		10/12/20 16:34	74-88-4	M1,R1
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 16:34	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 16:34	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 16:34	80-62-6	
Methylene Chloride	<1.0	ug/L	1.0	1		10/12/20 16:34	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 16:34	107-12-0	
Styrene	<1.0	ug/L	1.0	1		10/12/20 16:34	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		10/12/20 16:34	127-18-4	
Toluene	<1.0	ug/L	1.0	1		10/12/20 16:34	108-88-3	
Trichloroethene	1.0	ug/L	1.0	1		10/12/20 16:34	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		10/12/20 16:34	75-69-4	
Vinyl acetate	<1.0	ug/L	1.0	1		10/12/20 16:34	108-05-4	CL
Vinyl chloride	10.5	ug/L	1.0	1		10/12/20 16:34	75-01-4	IH
Xylene (Total)	<3.0	ug/L	3.0	1		10/12/20 16:34	1330-20-7	
cis-1,2-Dichloroethene	38.2	ug/L	1.0	1		10/12/20 16:34	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 16:34	10061-01-5	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		10/12/20 16:34	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 16:34	10061-02-6	M1
trans-1,4-Dichloro-2-butene	<1.0	ug/L	1.0	1		10/12/20 16:34	110-57-6	CL,M1
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		10/12/20 16:34	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-124	1		10/12/20 16:34	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		10/12/20 16:34	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:22		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	327	mg/L	1.0	1		10/08/20 12:28		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	227	mg/L	5.0	1		10/20/20 15:40		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

<b>Sample: MW-10B</b>		<b>Lab ID: 70148482003</b>		Collected: 10/06/20 08:05	Received: 10/07/20 10:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	<b>345</b>	mg/L	10.0	1		10/08/20 10:40		
<b>410.4 COD</b>		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville						
Chemical Oxygen Demand	<b>39.9</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 11:00		
<b>5210B BOD, 5 day</b>		Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville						
BOD, 5 day	<b>2.1</b>	mg/L	2.0	1	10/07/20 13:10	10/12/20 09:02		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Melville						
Bromide	<b>0.27J</b>	mg/L	0.50	1		10/10/20 02:10	24959-67-9	
Chloride	<b>8.1</b>	mg/L	2.0	1		10/10/20 02:10	16887-00-6	
Sulfate	<b>5.1</b>	mg/L	5.0	1		10/10/20 02:10	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville						
Nitrogen, Kjeldahl, Total	<b>1.6</b>	mg/L	0.10	1	10/16/20 07:23	10/16/20 13:35	7727-37-9	M1
<b>353.2 Nitrogen, NO2/NO3 unpres</b>		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrate as N	<b>0.48</b>	mg/L	0.050	1		10/07/20 23:12	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.49</b>	mg/L	0.050	1		10/07/20 23:12	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2 Pace Analytical Services - Melville						
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:32	14797-65-0	
<b>Phenolics, Total Recoverable</b>		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville						
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:36		
<b>4500 Ammonia Water</b>		Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville						
Nitrogen, Ammonia	<b>1.1</b>	mg/L	0.10	1		10/20/20 13:36	7664-41-7	
<b>5310B TOC as NPOC</b>		Analytical Method: SM22 5310B Pace Analytical Services - Melville						
Total Organic Carbon	<b>3.8</b>	mg/L	1.0	1		10/20/20 15:25	7440-44-0	

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

<b>Sample: MW-12B</b>	<b>Lab ID: 70148482004</b>	Collected: 10/06/20 10:30	Received: 10/07/20 10:20	Matrix: Water
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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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**6010 MET ICP**

Analytical Method: EPA 6010C Preparation Method: EPA 3005A  
Pace Analytical Services - Melville

Cadmium	<2.5	ug/L	2.5	1	10/13/20 10:58	10/15/20 02:45	7440-43-9	
Calcium	130000	ug/L	200	1	10/13/20 10:58	10/15/20 02:45	7440-70-2	
Iron	14500	ug/L	20.0	1	10/13/20 10:58	10/15/20 02:45	7439-89-6	
Lead	3.0J	ug/L	5.0	1	10/13/20 10:58	10/15/20 02:45	7439-92-1	
Magnesium	26800	ug/L	200	1	10/13/20 10:58	10/15/20 02:45	7439-95-4	
Manganese	9890	ug/L	10.0	1	10/13/20 10:58	10/15/20 02:45	7439-96-5	
Potassium	4940J	ug/L	5000	1	10/13/20 10:58	10/15/20 02:45	7440-09-7	
Sodium	14300	ug/L	5000	1	10/13/20 10:58	10/15/20 02:45	7440-23-5	

**8260C Volatile Organics**

Analytical Method: EPA 8260C/5030C  
Pace Analytical Services - Melville

1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 16:54	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 16:54	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 16:54	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 16:54	79-00-5	
1,1-Dichloroethane	6.8	ug/L	5.0	1		10/12/20 16:54	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 16:54	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 16:54	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 16:54	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 16:54	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 16:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 16:54	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 16:54	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 16:54	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 16:54	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:54	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 16:54	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 16:54	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 16:54	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 16:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 16:54	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 16:54	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 16:54	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 16:54	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 16:54	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 16:54	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 16:54	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 16:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 16:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 16:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 16:54	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 16:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 16:54	56-23-5	
Chlorobenzene	6.1	ug/L	5.0	1		10/12/20 16:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 16:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 16:54	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-12B	Lab ID: 70148482004	Collected: 10/06/20 10:30	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	ND	ug/L	5.0	1		10/12/20 16:54	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 16:54	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 16:54	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 16:54	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 16:54	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 16:54	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 16:54	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 16:54	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 16:54	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 16:54	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 16:54	80-62-6	
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 16:54	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 16:54	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 16:54	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 16:54	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 16:54	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 16:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 16:54	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 16:54	108-05-4	CL
Vinyl chloride	1.1	ug/L	1.0	1		10/12/20 16:54	75-01-4	IH
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 16:54	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 16:54	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 16:54	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 16:54	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 16:54	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 16:54	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	89	%	68-153	1		10/12/20 16:54	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-124	1		10/12/20 16:54	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		10/12/20 16:54	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:08		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	<b>508</b>	mg/L	1.0	1		10/08/20 13:29		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	<b>273</b>	mg/L	5.0	1		10/20/20 15:40		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Sample: MW-12B	Lab ID: 70148482004	Collected: 10/06/20 10:30	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<b>503</b>	mg/L	10.0	1		10/08/20 10:41		
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<b>46.3</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 11:01		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<b>9.0</b>	mg/L	2.0	1	10/07/20 13:10	10/12/20 09:07		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<b>0.43J</b>	mg/L	0.50	1		10/10/20 03:00	24959-67-9	
Chloride	<b>10.9</b>	mg/L	2.0	1		10/10/20 03:00	16887-00-6	
Sulfate	<b>1.7J</b>	mg/L	5.0	1		10/10/20 03:00	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<b>9.2</b>	mg/L	1.0	10	10/16/20 07:23	10/16/20 14:24	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<b>0.067</b>	mg/L	0.050	1		10/07/20 23:16	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.079</b>	mg/L	0.050	1		10/07/20 23:16	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:36	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:39		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<b>9.9</b>	mg/L	0.50	5		10/20/20 13:59	7664-41-7	
<b>5310B TOC as NPOC</b>	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	<b>7.6</b>	mg/L	1.0	1		10/20/20 16:11	7440-44-0	

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-13	Lab ID: 70148482005	Collected: 10/06/20 08:40	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Pace Analytical Services - Melville								
Cadmium	<2.5	ug/L	2.5	1	10/13/20 10:58	10/15/20 03:01	7440-43-9	
Calcium	60700	ug/L	200	1	10/13/20 10:58	10/15/20 03:01	7440-70-2	
Iron	95.5	ug/L	20.0	1	10/13/20 10:58	10/15/20 03:01	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/13/20 10:58	10/15/20 03:01	7439-92-1	
Magnesium	13500	ug/L	200	1	10/13/20 10:58	10/15/20 03:01	7439-95-4	
Manganese	146	ug/L	10.0	1	10/13/20 10:58	10/15/20 03:01	7439-96-5	
Potassium	<5000	ug/L	5000	1	10/13/20 10:58	10/15/20 03:01	7440-09-7	
Sodium	8060	ug/L	5000	1	10/13/20 10:58	10/15/20 03:01	7440-23-5	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 17:13	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 17:13	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 17:13	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 17:13	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/12/20 17:13	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:13	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 17:13	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 17:13	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 17:13	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 17:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 17:13	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 17:13	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 17:13	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 17:13	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 17:13	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 17:13	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 17:13	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 17:13	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 17:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 17:13	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 17:13	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 17:13	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 17:13	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 17:13	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 17:13	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 17:13	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 17:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 17:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 17:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 17:13	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 17:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 17:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/12/20 17:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 17:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 17:13	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-13	Lab ID: 70148482005	Collected: 10/06/20 08:40	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	ND	ug/L	5.0	1		10/12/20 17:13	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 17:13	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 17:13	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 17:13	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 17:13	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 17:13	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 17:13	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 17:13	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 17:13	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 17:13	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 17:13	80-62-6	
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 17:13	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 17:13	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 17:13	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 17:13	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 17:13	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 17:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 17:13	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 17:13	108-05-4	CL
Vinyl chloride	<1.0	ug/L	1.0	1		10/12/20 17:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 17:13	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:13	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 17:13	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:13	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 17:13	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 17:13	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	68-153	1		10/12/20 17:13	17060-07-0	
4-Bromofluorobenzene (S)	91	%	79-124	1		10/12/20 17:13	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		10/12/20 17:13	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:09		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	<b>215</b>	mg/L	1.0	1		10/08/20 14:20		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	<b>200</b>	mg/L	5.0	1		10/20/20 15:41		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Sample: MW-13	Lab ID: 70148482005	Collected: 10/06/20 08:40	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<b>268</b>	mg/L	10.0	1		10/08/20 10:50		
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<b>23.0</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 11:01		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	10/07/20 13:12	10/12/20 09:09		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<b>0.30J</b>	mg/L	0.50	1		10/10/20 03:17	24959-67-9	
Chloride	<b>4.0</b>	mg/L	2.0	1		10/10/20 03:17	16887-00-6	
Sulfate	<b>4.3J</b>	mg/L	5.0	1		10/10/20 03:17	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<b>1.2</b>	mg/L	0.10	1	10/16/20 07:23	10/16/20 13:38	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<b>0.046J</b>	mg/L	0.050	1		10/07/20 23:17	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.048J</b>	mg/L	0.050	1		10/07/20 23:17	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:37	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:39		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<b>0.10</b>	mg/L	0.10	1		10/20/20 13:43	7664-41-7	
<b>5310B TOC as NPOC</b>	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	<b>3.3</b>	mg/L	1.0	1		10/20/20 16:21	7440-44-0	

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-14	Lab ID: 70148482006	Collected: 10/06/20 07:40	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Pace Analytical Services - Melville								
Cadmium	<2.5	ug/L	2.5	1	10/13/20 10:58	10/15/20 03:06	7440-43-9	
Calcium	60200	ug/L	200	1	10/13/20 10:58	10/15/20 03:06	7440-70-2	
Iron	62.0	ug/L	20.0	1	10/13/20 10:58	10/15/20 03:06	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/13/20 10:58	10/15/20 03:06	7439-92-1	
Magnesium	14400	ug/L	200	1	10/13/20 10:58	10/15/20 03:06	7439-95-4	
Manganese	182	ug/L	10.0	1	10/13/20 10:58	10/15/20 03:06	7439-96-5	
Potassium	2000J	ug/L	5000	1	10/13/20 10:58	10/15/20 03:06	7440-09-7	
Sodium	9350	ug/L	5000	1	10/13/20 10:58	10/15/20 03:06	7440-23-5	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 17:32	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 17:32	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 17:32	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 17:32	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/12/20 17:32	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:32	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 17:32	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 17:32	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 17:32	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 17:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 17:32	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 17:32	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 17:32	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 17:32	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 17:32	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 17:32	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 17:32	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 17:32	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 17:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 17:32	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 17:32	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 17:32	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 17:32	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 17:32	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 17:32	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 17:32	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 17:32	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 17:32	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 17:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 17:32	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 17:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 17:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/12/20 17:32	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 17:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 17:32	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: MW-14	Lab ID: 70148482006	Collected: 10/06/20 07:40	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	ND	ug/L	5.0	1		10/12/20 17:32	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 17:32	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 17:32	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 17:32	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 17:32	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 17:32	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 17:32	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 17:32	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 17:32	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 17:32	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 17:32	80-62-6	
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 17:32	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 17:32	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 17:32	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 17:32	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 17:32	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 17:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 17:32	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 17:32	108-05-4	CL
Vinyl chloride	<1.0	ug/L	1.0	1		10/12/20 17:32	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 17:32	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:32	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 17:32	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:32	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 17:32	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 17:32	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	68-153	1		10/12/20 17:32	17060-07-0	
4-Bromofluorobenzene (S)	90	%	79-124	1		10/12/20 17:32	460-00-4	
Toluene-d8 (S)	92	%	69-124	1		10/12/20 17:32	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:10		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	<b>211</b>	mg/L	1.0	1		10/08/20 14:31		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	<b>167</b>	mg/L	5.0	1		10/20/20 15:41		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Sample: MW-14	Lab ID: 70148482006	Collected: 10/06/20 07:40	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<b>255</b>	mg/L	10.0	1		10/08/20 10:50		
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<b>50.5</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 11:01		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<b>17.7</b>	mg/L	2.0	1	10/07/20 13:12	10/12/20 09:17		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<b>1.0</b>	mg/L	0.50	1		10/10/20 04:07	24959-67-9	
Chloride	<b>2.0</b>	mg/L	2.0	1		10/10/20 04:07	16887-00-6	
Sulfate	<b>12.3</b>	mg/L	5.0	1		10/10/20 04:07	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<b>1.7</b>	mg/L	0.10	1	10/16/20 07:23	10/16/20 13:39	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<b>0.072</b>	mg/L	0.050	1		10/07/20 23:18	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.072</b>	mg/L	0.050	1		10/07/20 23:18	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:38	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:40		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<b>0.090J</b>	mg/L	0.10	1		10/20/20 13:44	7664-41-7	
<b>5310B TOC as NPOC</b>	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	<b>14.0</b>	mg/L	1.0	1		10/20/20 16:35	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: DUP	Lab ID: 70148482007	Collected: 10/06/20 00:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>								
Analytical Method: EPA 6010C Preparation Method: EPA 3005A								
Pace Analytical Services - Melville								
Cadmium	<2.5	ug/L	2.5	1	10/13/20 10:58	10/15/20 03:11	7440-43-9	
Calcium	88800	ug/L	200	1	10/13/20 10:58	10/15/20 03:11	7440-70-2	
Iron	2510	ug/L	20.0	1	10/13/20 10:58	10/15/20 03:11	7439-89-6	
Lead	<5.0	ug/L	5.0	1	10/13/20 10:58	10/15/20 03:11	7439-92-1	
Magnesium	13000	ug/L	200	1	10/13/20 10:58	10/15/20 03:11	7439-95-4	
Manganese	6220	ug/L	10.0	1	10/13/20 10:58	10/15/20 03:11	7439-96-5	
Potassium	<5000	ug/L	5000	1	10/13/20 10:58	10/15/20 03:11	7440-09-7	
Sodium	8110	ug/L	5000	1	10/13/20 10:58	10/15/20 03:11	7440-23-5	
<b>8260C Volatile Organics</b>								
Analytical Method: EPA 8260C/5030C								
Pace Analytical Services - Melville								
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 17:52	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 17:52	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 17:52	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 17:52	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/12/20 17:52	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:52	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 17:52	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 17:52	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 17:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 17:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 17:52	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 17:52	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 17:52	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 17:52	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 17:52	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 17:52	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 17:52	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 17:52	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 17:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 17:52	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 17:52	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 17:52	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 17:52	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 17:52	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 17:52	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 17:52	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 17:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 17:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 17:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 17:52	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 17:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 17:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/12/20 17:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 17:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 17:52	67-66-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: DUP		Lab ID: 70148482007	Collected: 10/06/20 00:00	Received: 10/07/20 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Chloromethane	ND	ug/L	5.0	1		10/12/20 17:52	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 17:52	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 17:52	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 17:52	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 17:52	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 17:52	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 17:52	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 17:52	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 17:52	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 17:52	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 17:52	80-62-6	
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 17:52	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 17:52	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 17:52	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 17:52	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 17:52	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 17:52	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 17:52	108-05-4	CL
Vinyl chloride	3.4	ug/L	1.0	1		10/12/20 17:52	75-01-4	IH
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 17:52	1330-20-7	
cis-1,2-Dichloroethene	5.4	ug/L	5.0	1		10/12/20 17:52	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 17:52	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 17:52	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 17:52	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 17:52	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	91	%	68-153	1		10/12/20 17:52	17060-07-0	
4-Bromofluorobenzene (S)	92	%	79-124	1		10/12/20 17:52	460-00-4	
Toluene-d8 (S)	93	%	69-124	1		10/12/20 17:52	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:12		
<b>2320B Alkalinity</b>		Analytical Method: SM22 2320B Pace Analytical Services - Melville						
Alkalinity, Total as CaCO3	289	mg/L	1.0	1		10/08/20 14:45		
<b>2340C Hardness, Total</b>		Analytical Method: SM22 2340C Pace Analytical Services - Melville						
Tot Hardness asCaCO3 (SM 2340B)	247	mg/L	5.0	1		10/20/20 15:43		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Sample: DUP	Lab ID: 70148482007	Collected: 10/06/20 00:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	<b>330</b>	mg/L	10.0	1		10/08/20 10:51		
<b>410.4 COD</b>	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 Pace Analytical Services - Melville							
Chemical Oxygen Demand	<b>31.5</b>	mg/L	10.0	1	10/09/20 08:43	10/09/20 11:01		
<b>5210B BOD, 5 day</b>	Analytical Method: SM22 5210B Preparation Method: SM22 5210B Pace Analytical Services - Melville							
BOD, 5 day	<b>&lt;2.0</b>	mg/L	2.0	1	10/07/20 13:12	10/12/20 09:19		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0 Pace Analytical Services - Melville							
Bromide	<b>0.20J</b>	mg/L	0.50	1		10/13/20 23:00	24959-67-9	
Chloride	<b>10.7</b>	mg/L	2.0	1		10/13/20 23:00	16887-00-6	
Sulfate	<b>7.8</b>	mg/L	5.0	1		10/13/20 23:00	14808-79-8	
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Melville							
Nitrogen, Kjeldahl, Total	<b>1.5</b>	mg/L	0.10	1	10/16/20 07:23	10/16/20 13:40	7727-37-9	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrate as N	<b>0.043J</b>	mg/L	0.050	1		10/07/20 23:19	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.045J</b>	mg/L	0.050	1		10/07/20 23:19	7727-37-9	
<b>353.2 Nitrogen, NO2</b>	Analytical Method: EPA 353.2 Pace Analytical Services - Melville							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050	1		10/07/20 19:39	14797-65-0	
<b>Phenolics, Total Recoverable</b>	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - Melville							
Phenolics, Total Recoverable	<b>&lt;5.0</b>	ug/L	5.0	1	10/13/20 10:48	10/14/20 13:41		
<b>4500 Ammonia Water</b>	Analytical Method: SM22 4500 NH3 H Pace Analytical Services - Melville							
Nitrogen, Ammonia	<b>0.88</b>	mg/L	0.10	1		10/20/20 13:45	7664-41-7	
<b>5310B TOC as NPOC</b>	Analytical Method: SM22 5310B Pace Analytical Services - Melville							
Total Organic Carbon	<b>2.1</b>	mg/L	1.0	1		10/20/20 16:45	7440-44-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: TRIP BLANK	Lab ID: 70148482008	Collected: 10/06/20 00:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 15:37	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/12/20 15:37	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/12/20 15:37	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/12/20 15:37	79-00-5	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/12/20 15:37	75-34-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/12/20 15:37	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	1		10/12/20 15:37	563-58-6	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		10/12/20 15:37	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/20 15:37	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		10/12/20 15:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 15:37	95-50-1	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/12/20 15:37	107-06-2	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/12/20 15:37	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		10/12/20 15:37	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 15:37	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/12/20 15:37	106-46-7	
2,2-Dichloropropane	<1.0	ug/L	1.0	1		10/12/20 15:37	594-20-7	CL
2-Butanone (MEK)	ND	ug/L	5.0	1		10/12/20 15:37	78-93-3	IL
2-Hexanone	ND	ug/L	5.0	1		10/12/20 15:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		10/12/20 15:37	108-10-1	
Acetone	ND	ug/L	5.0	1		10/12/20 15:37	67-64-1	IC
Acetonitrile	<5.0	ug/L	5.0	1		10/12/20 15:37	75-05-8	
Acrolein	<1.0	ug/L	1.0	1		10/12/20 15:37	107-02-8	
Acrylonitrile	ND	ug/L	5.0	1		10/12/20 15:37	107-13-1	
Allyl chloride	<4.0	ug/L	4.0	1		10/12/20 15:37	107-05-1	
Benzene	ND	ug/L	5.0	1		10/12/20 15:37	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		10/12/20 15:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		10/12/20 15:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/12/20 15:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/12/20 15:37	74-83-9	L1
Carbon disulfide	ND	ug/L	5.0	1		10/12/20 15:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/12/20 15:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/12/20 15:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/12/20 15:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/20 15:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/12/20 15:37	74-87-3	
Chloroprene	<1.0	ug/L	1.0	1		10/12/20 15:37	126-99-8	
Dibromochloromethane	ND	ug/L	5.0	1		10/12/20 15:37	124-48-1	
Dibromomethane	ND	ug/L	5.0	1		10/12/20 15:37	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		10/12/20 15:37	75-71-8	
Ethyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 15:37	97-63-2	
Ethylbenzene	ND	ug/L	5.0	1		10/12/20 15:37	100-41-4	
Iodomethane	ND	ug/L	5.0	1		10/12/20 15:37	74-88-4	
Isobutanol	<20.0	ug/L	20.0	1		10/12/20 15:37	78-83-1	
Methacrylonitrile	<1.0	ug/L	1.0	1		10/12/20 15:37	126-98-7	
Methyl methacrylate	<1.0	ug/L	1.0	1		10/12/20 15:37	80-62-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Sample: TRIP BLANK	Lab ID: 70148482008	Collected: 10/06/20 00:00	Received: 10/07/20 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
Methylene Chloride	ND	ug/L	5.0	1		10/12/20 15:37	75-09-2	
Propionitrile	<4.0	ug/L	4.0	1		10/12/20 15:37	107-12-0	
Styrene	ND	ug/L	5.0	1		10/12/20 15:37	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/12/20 15:37	127-18-4	
Toluene	ND	ug/L	5.0	1		10/12/20 15:37	108-88-3	
Trichloroethene	ND	ug/L	5.0	1		10/12/20 15:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/12/20 15:37	75-69-4	
Vinyl acetate	ND	ug/L	5.0	1		10/12/20 15:37	108-05-4	CL
Vinyl chloride	<1.0	ug/L	1.0	1		10/12/20 15:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/12/20 15:37	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 15:37	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 15:37	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/12/20 15:37	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/12/20 15:37	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		10/12/20 15:37	110-57-6	CL
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	90	%	68-153	1		10/12/20 15:37	17060-07-0	
4-Bromofluorobenzene (S)	93	%	79-124	1		10/12/20 15:37	460-00-4	
Toluene-d8 (S)	91	%	69-124	1		10/12/20 15:37	2037-26-5	
<b>TIC MSV Water</b>		Analytical Method: EPA 8260 Pace Analytical Services - Melville						
TIC Search	<b>No TIC's Found</b>			1		10/15/20 20:12		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180607      Analysis Method: EPA 6010C  
QC Batch Method: EPA 3005A      Analysis Description: 6010 MET Water  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002

METHOD BLANK: 880438      Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<2.5	2.5	10/13/20 12:26	
Calcium	ug/L	<200	200	10/13/20 12:26	
Iron	ug/L	<20.0	20.0	10/13/20 12:26	
Lead	ug/L	<5.0	5.0	10/13/20 12:26	
Magnesium	ug/L	<200	200	10/13/20 12:26	
Manganese	ug/L	<10.0	10.0	10/13/20 12:26	
Potassium	ug/L	<5000	5000	10/13/20 12:26	
Sodium	ug/L	<5000	5000	10/13/20 12:26	

LABORATORY CONTROL SAMPLE: 880439

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	50	49.4	99	80-120	
Calcium	ug/L	25000	24600	98	80-120	
Iron	ug/L	2000	1960	98	80-120	
Lead	ug/L	500	497	99	80-120	
Magnesium	ug/L	25000	24300	97	80-120	
Manganese	ug/L	250	244	98	80-120	
Potassium	ug/L	50000	50300	101	80-120	
Sodium	ug/L	50000	48400	97	80-120	

MATRIX SPIKE SAMPLE: 880441

Parameter	Units	70148353001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	<2.5	50	48.7	97	75-125	
Calcium	ug/L	<200	25000	24200	97	75-125	
Iron	ug/L	<20.0	2000	1950	97	75-125	
Lead	ug/L	<5.0	500	490	98	75-125	
Magnesium	ug/L	<200	25000	24000	96	75-125	
Manganese	ug/L	<10.0	250	242	97	75-125	
Potassium	ug/L	<5000	50000	48700	97	75-125	
Sodium	ug/L	<5000	50000	47600	95	75-125	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

SAMPLE DUPLICATE: 880440

Parameter	Units	70148353001 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	<200	<200		
Iron	ug/L	<20.0	<20.0		
Lead	ug/L	<5.0	<5.0		
Magnesium	ug/L	<200	<200		
Manganese	ug/L	<10.0	<10.0		
Potassium	ug/L	<5000	<5000		
Sodium	ug/L	<5000	<5000		

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 181112      Analysis Method: EPA 6010C  
QC Batch Method: EPA 3005A      Analysis Description: 6010 MET Water  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 883168      Matrix: Water  
Associated Lab Samples: 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<2.5	2.5	10/15/20 01:54	
Calcium	ug/L	<200	200	10/15/20 01:54	
Iron	ug/L	<20.0	20.0	10/15/20 01:54	
Lead	ug/L	<5.0	5.0	10/15/20 01:54	
Magnesium	ug/L	<200	200	10/15/20 01:54	
Manganese	ug/L	<10.0	10.0	10/15/20 01:54	
Potassium	ug/L	<5000	5000	10/15/20 01:54	
Sodium	ug/L	<5000	5000	10/15/20 01:54	

LABORATORY CONTROL SAMPLE: 883169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	50	49.7	99	80-120	
Calcium	ug/L	25000	24800	99	80-120	
Iron	ug/L	2000	1990	99	80-120	
Lead	ug/L	500	497	99	80-120	
Magnesium	ug/L	25000	24600	99	80-120	
Manganese	ug/L	250	247	99	80-120	
Potassium	ug/L	50000	48100	96	80-120	
Sodium	ug/L	50000	49600	99	80-120	

MATRIX SPIKE SAMPLE: 883171

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	<2.5	50	51.4	103	75-125	
Calcium	ug/L	78900	25000	104000	99	75-125	
Iron	ug/L	2260	2000	4300	102	75-125	
Lead	ug/L	3.2J	500	518	103	75-125	
Magnesium	ug/L	24800	25000	49900	101	75-125	
Manganese	ug/L	9900	250	10000	56	75-125	M1
Potassium	ug/L	1720J	50000	49300	95	75-125	
Sodium	ug/L	8570	50000	59400	102	75-125	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

SAMPLE DUPLICATE: 883170

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Cadmium	ug/L	<2.5	<2.5		
Calcium	ug/L	78900	80800	2	
Iron	ug/L	2260	2310	3	
Lead	ug/L	3.2J	<5.0		
Magnesium	ug/L	24800	25400	2	
Manganese	ug/L	9900	10100	2	
Potassium	ug/L	1720J	1940J		
Sodium	ug/L	8570	8680	1	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180987 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007, 70148482008

METHOD BLANK: 882768 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007, 70148482008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/12/20 13:42	
1,1,1-Trichloroethane	ug/L	ND	5.0	10/12/20 13:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/12/20 13:42	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/12/20 13:42	
1,1-Dichloroethane	ug/L	ND	5.0	10/12/20 13:42	
1,1-Dichloroethene	ug/L	ND	5.0	10/12/20 13:42	
1,1-Dichloropropene	ug/L	<1.0	1.0	10/12/20 13:42	
1,2,3-Trichloropropane	ug/L	ND	5.0	10/12/20 13:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/12/20 13:42	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	10/12/20 13:42	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/12/20 13:42	
1,2-Dichloroethane	ug/L	ND	5.0	10/12/20 13:42	
1,2-Dichloropropane	ug/L	ND	5.0	10/12/20 13:42	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	10/12/20 13:42	
1,3-Dichloropropane	ug/L	<1.0	1.0	10/12/20 13:42	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/12/20 13:42	
2,2-Dichloropropane	ug/L	<1.0	1.0	10/12/20 13:42	CL
2-Butanone (MEK)	ug/L	ND	5.0	10/12/20 13:42	IL
2-Hexanone	ug/L	ND	5.0	10/12/20 13:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/12/20 13:42	
Acetone	ug/L	ND	5.0	10/12/20 13:42	IC
Acetonitrile	ug/L	<5.0	5.0	10/12/20 13:42	
Acrolein	ug/L	<1.0	1.0	10/12/20 13:42	
Acrylonitrile	ug/L	ND	5.0	10/12/20 13:42	
Allyl chloride	ug/L	<4.0	4.0	10/12/20 13:42	
Benzene	ug/L	ND	5.0	10/12/20 13:42	
Bromochloromethane	ug/L	ND	5.0	10/12/20 13:42	
Bromodichloromethane	ug/L	ND	5.0	10/12/20 13:42	
Bromoform	ug/L	ND	5.0	10/12/20 13:42	
Bromomethane	ug/L	ND	5.0	10/12/20 13:42	
Carbon disulfide	ug/L	ND	5.0	10/12/20 13:42	
Carbon tetrachloride	ug/L	ND	5.0	10/12/20 13:42	
Chlorobenzene	ug/L	ND	5.0	10/12/20 13:42	
Chloroethane	ug/L	ND	5.0	10/12/20 13:42	
Chloroform	ug/L	ND	5.0	10/12/20 13:42	
Chloromethane	ug/L	ND	5.0	10/12/20 13:42	
Chloroprene	ug/L	<1.0	1.0	10/12/20 13:42	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/12/20 13:42	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/12/20 13:42	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

METHOD BLANK: 882768

Matrix: Water

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007, 70148482008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	5.0	10/12/20 13:42	
Dibromomethane	ug/L	ND	5.0	10/12/20 13:42	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/12/20 13:42	
Ethyl methacrylate	ug/L	<1.0	1.0	10/12/20 13:42	
Ethylbenzene	ug/L	ND	5.0	10/12/20 13:42	
Iodomethane	ug/L	ND	5.0	10/12/20 13:42	
Isobutanol	ug/L	<20.0	20.0	10/12/20 13:42	
Methacrylonitrile	ug/L	<1.0	1.0	10/12/20 13:42	
Methyl methacrylate	ug/L	<1.0	1.0	10/12/20 13:42	
Methylene Chloride	ug/L	ND	5.0	10/12/20 13:42	
Propionitrile	ug/L	<4.0	4.0	10/12/20 13:42	
Styrene	ug/L	ND	5.0	10/12/20 13:42	
Tetrachloroethene	ug/L	ND	5.0	10/12/20 13:42	
Toluene	ug/L	ND	5.0	10/12/20 13:42	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/12/20 13:42	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/12/20 13:42	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	10/12/20 13:42	CL
Trichloroethene	ug/L	ND	5.0	10/12/20 13:42	
Trichlorofluoromethane	ug/L	ND	5.0	10/12/20 13:42	
Vinyl acetate	ug/L	ND	5.0	10/12/20 13:42	CL
Vinyl chloride	ug/L	<1.0	1.0	10/12/20 13:42	
Xylene (Total)	ug/L	ND	5.0	10/12/20 13:42	
1,2-Dichloroethane-d4 (S)	%	90	68-153	10/12/20 13:42	
4-Bromofluorobenzene (S)	%	94	79-124	10/12/20 13:42	
Toluene-d8 (S)	%	90	69-124	10/12/20 13:42	

LABORATORY CONTROL SAMPLE: 882769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.3	101	74-113	
1,1,1-Trichloroethane	ug/L	50	44.3	89	65-118	
1,1,2,2-Tetrachloroethane	ug/L	50	46.1	92	74-121	
1,1,2-Trichloroethane	ug/L	50	52.8	106	80-117	
1,1-Dichloroethane	ug/L	50	48.4	97	83-151	
1,1-Dichloroethene	ug/L	50	51.3	103	45-146	
1,1-Dichloropropene	ug/L	50	49.2	98	59-127	
1,2,3-Trichloropropane	ug/L	50	43.6	87	71-123	
1,2-Dibromo-3-chloropropane	ug/L	50	38.8	78	74-119	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	83-115	
1,2-Dichlorobenzene	ug/L	50	48.1	96	74-113	
1,2-Dichloroethane	ug/L	50	49.3	99	74-129	
1,2-Dichloropropane	ug/L	50	51.6	103	75-117	
1,3-Dichlorobenzene	ug/L	50	47.8	96	71-112	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

LABORATORY CONTROL SAMPLE: 882769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	52.0	104	74-112	
1,4-Dichlorobenzene	ug/L	50	47.8	96	71-113	
2,2-Dichloropropane	ug/L	50	33.3	67	63-133	CL
2-Butanone (MEK)	ug/L	50	46.9	94	44-162	IL
2-Hexanone	ug/L	50	49.0	98	32-183	
4-Methyl-2-pentanone (MIBK)	ug/L	50	54.1	108	69-132	
Acetone	ug/L	50	82.9	166	23-188	CH,IC
Acetonitrile	ug/L	250	278	111	30-150	
Acrolein	ug/L	50	43.5	87	40-174	
Acrylonitrile	ug/L	50	50.5	101	59-148	
Allyl chloride	ug/L	50	41.8	84	46-141	
Benzene	ug/L	50	51.6	103	73-119	
Bromochloromethane	ug/L	50	52.1	104	81-116	
Bromodichloromethane	ug/L	50	51.6	103	78-117	
Bromoform	ug/L	50	58.4	117	65-122	CH
Bromomethane	ug/L	50	76.6	153	52-147	CH,IH,L1
Carbon disulfide	ug/L	50	48.4	97	41-144	
Carbon tetrachloride	ug/L	50	47.7	95	59-120	
Chlorobenzene	ug/L	50	50.3	101	75-113	
Chloroethane	ug/L	50	55.8	112	49-151	
Chloroform	ug/L	50	49.3	99	72-122	
Chloromethane	ug/L	50	47.5	95	46-144	
Chloroprene	ug/L	50	45.7	91	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	72-121	
cis-1,3-Dichloropropene	ug/L	50	46.0	92	78-116	
Dibromochloromethane	ug/L	50	53.7	107	70-120	
Dibromomethane	ug/L	50	53.9	108	75-125	
Dichlorodifluoromethane	ug/L	50	38.6	77	22-154	
Ethyl methacrylate	ug/L	50	46.5	93	59-128	
Ethylbenzene	ug/L	50	50.0	100	70-113	
Iodomethane	ug/L	50	43.0	86	61-144	
Isobutanol	ug/L	250	243	97	60-140	
Methacrylonitrile	ug/L	50	50.0	100	60-140	
Methyl methacrylate	ug/L	50	47.7	95	54-131	
Methylene Chloride	ug/L	50	49.5	99	61-142	
Propionitrile	ug/L	50	49.4	99	60-140	
Styrene	ug/L	50	51.2	102	72-118	
Tetrachloroethene	ug/L	50	52.3	105	60-128	
Toluene	ug/L	50	52.7	105	72-119	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	56-142	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	79-116	
trans-1,4-Dichloro-2-butene	ug/L	50	36.8	74	71-121	CL
Trichloroethene	ug/L	50	50.5	101	69-117	
Trichlorofluoromethane	ug/L	50	53.1	106	27-173	
Vinyl acetate	ug/L	50	39.4	79	20-158	CL
Vinyl chloride	ug/L	50	51.2	102	43-143	IH
Xylene (Total)	ug/L	150	152	101	71-109	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

LABORATORY CONTROL SAMPLE: 882769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			90	68-153	
4-Bromofluorobenzene (S)	%			96	79-124	
Toluene-d8 (S)	%			92	69-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 884227 884228

Parameter	70148482003		MS	MSD	MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	47.1	51.3	94	103	74-113	9		
1,1,1-Trichloroethane	ug/L	<1.0	50	50	41.3	44.8	83	90	65-118	8		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	45.6	50.3	91	101	74-121	10		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	48.5	52.2	97	104	80-117	7		
1,1-Dichloroethane	ug/L	12.1	50	50	57.6	60.3	91	96	83-151	5		
1,1-Dichloroethene	ug/L	<1.0	50	50	49.9	53.1	100	106	45-146	6		
1,1-Dichloropropene	ug/L	<1.0	50	50	47.0	50.1	94	100	59-127	6		
1,2,3-Trichloropropane	ug/L	<1.0	50	50	40.5	45.1	81	90	71-123	11		
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	36.5	42.7	73	85	74-119	16	M1	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	45.7	49.9	91	100	83-115	9		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	48.4	53.7	97	107	74-113	10		
1,2-Dichloroethane	ug/L	<1.0	50	50	44.5	47.4	89	95	74-129	6		
1,2-Dichloropropane	ug/L	<1.0	50	50	45.6	50.1	91	100	75-117	10		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	48.9	53.3	98	107	71-112	9		
1,3-Dichloropropane	ug/L	<1.0	50	50	48.4	52.6	97	105	74-112	8		
1,4-Dichlorobenzene	ug/L	<1.0	50	50	48.0	53.3	96	107	71-113	11		
2,2-Dichloropropane	ug/L	<1.0	50	50	29.0	31.0	58	62	63-133	6	CL,M1	
2-Butanone (MEK)	ug/L	<5.0	50	50	24.1	26.9	48	54	44-162	11	IL	
2-Hexanone	ug/L	<5.0	50	50	44.2	48.8	88	98	32-183	10		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	48.3	52.5	97	105	69-132	8		
Acetone	ug/L	<5.0	50	50	64.5	64.0	129	128	23-188	1	CH,IC	
Acetonitrile	ug/L	<5.0	250	250	214	229	85	92	30-150	7		
Acrolein	ug/L	<1.0	50	50	42.8	50.2	86	100	40-174	16		
Acrylonitrile	ug/L	<1.0	50	50	43.2	47.4	86	95	59-148	9		
Allyl chloride	ug/L	<4.0	50	50	34.6	37.1	69	74	46-141	7		
Benzene	ug/L	1.5	50	50	53.1	56.2	103	109	73-119	6		
Bromochloromethane	ug/L	<1.0	50	50	46.2	47.4	92	95	81-116	2		
Bromodichloromethane	ug/L	<1.0	50	50	44.3	47.5	89	95	78-117	7		
Bromoform	ug/L	<1.0	50	50	54.0	58.3	108	117	65-122	8	CH	
Bromomethane	ug/L	<1.0	50	50	68.5	79.2	137	158	52-147	14	CH,IH,M0	
Carbon disulfide	ug/L	<1.0	50	50	44.5	47.8	89	96	41-144	7		
Carbon tetrachloride	ug/L	<1.0	50	50	46.2	50.2	92	100	59-120	8		
Chlorobenzene	ug/L	1.0	50	50	51.1	55.1	100	108	75-113	8		
Chloroethane	ug/L	<1.0	50	50	53.2	54.8	106	110	49-151	3		
Chloroform	ug/L	<1.0	50	50	45.2	47.9	90	96	72-122	6		
Chloromethane	ug/L	<1.0	50	50	36.4	41.4	73	83	46-144	13		
Chloroprene	ug/L	<1.0	50	50	46.1	49.2	92	98	60-140	7		

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 884227		884228								
	Units	70148482003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
cis-1,2-Dichloroethene	ug/L	38.2	50	50	82.3	85.6	88	95	72-121	4	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	38.8	41.9	78	84	78-116	8	
Dibromochloromethane	ug/L	<1.0	50	50	51.6	55.9	103	112	70-120	8	
Dibromomethane	ug/L	<1.0	50	50	49.1	52.0	98	104	75-125	6	
Dichlorodifluoromethane	ug/L	<1.0	50	50	27.2	29.7	54	59	22-154	9	
Ethyl methacrylate	ug/L	<1.0	50	50	42.5	46.3	85	93	59-128	8	
Ethylbenzene	ug/L	<1.0	50	50	49.3	52.7	99	105	70-113	7	
Iodomethane	ug/L	<4.0	50	50	27.9	38.3	56	77	61-144	32	M1,R1
Isobutanol	ug/L	<20.0	250	250	279	302	112	121	60-140	8	
Methacrylonitrile	ug/L	<1.0	50	50	43.8	48.5	88	97	60-140	10	
Methyl methacrylate	ug/L	<1.0	50	50	42.9	46.0	86	92	54-131	7	
Methylene Chloride	ug/L	<1.0	50	50	45.6	48.7	91	97	61-142	7	
Propionitrile	ug/L	<4.0	50	50	44.9	48.5	90	97	60-140	8	
Styrene	ug/L	<1.0	50	50	49.5	53.4	99	107	72-118	8	
Tetrachloroethene	ug/L	<1.0	50	50	53.2	57.6	106	115	60-128	8	
Toluene	ug/L	<1.0	50	50	49.2	52.8	98	106	72-119	7	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	48.1	50.2	96	100	56-142	4	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	34.6	38.5	69	77	79-116	10	M1
trans-1,4-Dichloro-2-butene	ug/L	<1.0	50	50	34.6	38.2	69	76	71-121	10	CL,M1
Trichloroethene	ug/L	1.0	50	50	48.8	53.5	95	105	69-117	9	
Trichlorofluoromethane	ug/L	<1.0	50	50	51.8	55.6	104	111	27-173	7	
Vinyl acetate	ug/L	<1.0	50	50	31.7	36.1	63	72	20-158	13	CL
Vinyl chloride	ug/L	10.5	50	50	56.2	59.6	91	98	43-143	6	IH
Xylene (Total)	ug/L	<3.0	150	150	150	161	100	107	71-109	7	
1,2-Dichloroethane-d4 (S)	%						90	91	68-153		
4-Bromofluorobenzene (S)	%						91	92	79-124		
Toluene-d8 (S)	%						95	95	69-124		

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch:	180498	Analysis Method:	SM22 2320B
QC Batch Method:	SM22 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 880011 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<1.0	1.0	10/08/20 09:59	

LABORATORY CONTROL SAMPLE: 880012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	25	25.4	101	85-115	

MATRIX SPIKE SAMPLE: 880014

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	327	50	376	98	75-125	

SAMPLE DUPLICATE: 880013

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	327	321	2	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch:	182120	Analysis Method:	SM22 2340C
QC Batch Method:	SM22 2340C	Analysis Description:	2340C Hardness, Total
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 888809 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	ND	2.5	10/20/20 15:38	

LABORATORY CONTROL SAMPLE: 888810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	100	98.0	98	90-110	

MATRIX SPIKE SAMPLE: 888811

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	227	667	880	98	75-125	

SAMPLE DUPLICATE: 888812

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Tot Hardness asCaCO3 (SM 2340B)	mg/L	227	227	0	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180509	Analysis Method: SM22 2540C
QC Batch Method: SM22 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 880039 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/08/20 10:13	

LABORATORY CONTROL SAMPLE: 880040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	520	104	85-115	

MATRIX SPIKE SAMPLE: 880042

Parameter	Units	70148477002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	5200	300	5510	102	75-125	

MATRIX SPIKE SAMPLE: 880044

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	345	300	627	94	75-125	

SAMPLE DUPLICATE: 880041

Parameter	Units	70148477002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	5200	5370	3	

SAMPLE DUPLICATE: 880043

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	345	337	2	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180698	Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4	Analysis Description: 410.4 COD
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 881238 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.0	10.0	10/09/20 10:55	

LABORATORY CONTROL SAMPLE: 881239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	524	105	90-110	

MATRIX SPIKE SAMPLE: 881240

Parameter	Units	70148665001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	33.6	1000	1080	104	90-110	

MATRIX SPIKE SAMPLE: 881242

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	39.9	1000	1080	104	90-110	

SAMPLE DUPLICATE: 881241

Parameter	Units	70148665001 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	33.6	37.8	12	

SAMPLE DUPLICATE: 881243

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Chemical Oxygen Demand	mg/L	39.9	46.3	15	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

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QC Batch:	180397	Analysis Method:	SM22 5210B
QC Batch Method:	SM22 5210B	Analysis Description:	5210B BOD, 5 day
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

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METHOD BLANK: 879350 Matrix: Water

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	1.0	10/12/20 08:30	

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LABORATORY CONTROL SAMPLE: 879351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	97	84.5-115.4	

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SAMPLE DUPLICATE: 879352

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
BOD, 5 day	mg/L	2.1	2.4	11	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180868 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006

METHOD BLANK: 882090 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	10/09/20 18:55	
Chloride	mg/L	<2.0	2.0	10/09/20 18:55	
Sulfate	mg/L	<5.0	5.0	10/09/20 18:55	

LABORATORY CONTROL SAMPLE: 882091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	1.0	103	90-110	
Chloride	mg/L	10	9.8	98	90-110	
Sulfate	mg/L	10	9.7	97	90-110	

MATRIX SPIKE SAMPLE: 882092

Parameter	Units	70147753002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.027	1	0.95	93	90-110	
Chloride	mg/L	5.5	10	14.6	91	90-110	
Sulfate	mg/L	16.8	10	27.2	103	90-110	

MATRIX SPIKE SAMPLE: 882094

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.27J	1	1.2	94	90-110	
Chloride	mg/L	8.1	10	17.7	96	90-110	
Sulfate	mg/L	5.1	10	15.3	103	90-110	

SAMPLE DUPLICATE: 882093

Parameter	Units	70147753002 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.027	<0.50		
Chloride	mg/L	5.5	5.3	4	
Sulfate	mg/L	16.8	16.2	4	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

SAMPLE DUPLICATE: 882095

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.27J	0.26J		
Chloride	mg/L	8.1	8.0	0	
Sulfate	mg/L	5.1	5.1	1	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 181212      Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0      Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482007

METHOD BLANK: 884048      Matrix: Water  
Associated Lab Samples: 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	<0.50	0.50	10/13/20 19:22	
Chloride	mg/L	<2.0	2.0	10/13/20 19:22	
Sulfate	mg/L	<5.0	5.0	10/13/20 19:22	

LABORATORY CONTROL SAMPLE: 884049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	1	0.99	99	90-110	
Chloride	mg/L	10	9.0	90	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE SAMPLE: 884050

Parameter	Units	70148482007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.20J	1	1.1	93	90-110	
Chloride	mg/L	10.7	10	20.4	98	90-110	
Sulfate	mg/L	7.8	10	17.8	100	90-110	

MATRIX SPIKE SAMPLE: 884052

Parameter	Units	70148531001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	0.84	1	1.8	95	90-110	
Chloride	mg/L	322	100	423	101	90-110	
Sulfate	mg/L	67.4	100	161	93	90-110	

SAMPLE DUPLICATE: 884051

Parameter	Units	70148482007 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.20J	0.19J		
Chloride	mg/L	10.7	11.1	4	
Sulfate	mg/L	7.8	7.8	1	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

SAMPLE DUPLICATE: 884053

Parameter	Units	70148531001 Result	Dup Result	RPD	Qualifiers
Bromide	mg/L	0.84	0.87	3	
Chloride	mg/L	322	326	1	
Sulfate	mg/L	67.4	67.0	1	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

QC Batch:	181676	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 886522 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.094	10/16/20 13:21	

LABORATORY CONTROL SAMPLE: 886523

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: 886524

Parameter	Units	70149714002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.9	4	8.6	92	90-110	

MATRIX SPIKE SAMPLE: 886526

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.6	4	6.4	120	90-110	M1

SAMPLE DUPLICATE: 886525

Parameter	Units	70149714002 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.9	5.3	8	

SAMPLE DUPLICATE: 886527

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.6	1.4	12	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180478	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrite, Unpres.
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 879787 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.027	10/07/20 19:08	

LABORATORY CONTROL SAMPLE: 879788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 879789

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	101	90-110	

MATRIX SPIKE SAMPLE: 879857

Parameter	Units	70148561001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.51	102	90-110	

SAMPLE DUPLICATE: 879790

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

SAMPLE DUPLICATE: 879858

Parameter	Units	70148561001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

QC Batch: 180488	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate, Unpres.
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 879968 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	ND	0.037	10/07/20 22:48	

LABORATORY CONTROL SAMPLE: 879969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 879970

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.49	0.5	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 879972

Parameter	Units	70148591001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.9	5	11.9	100	90-110	

SAMPLE DUPLICATE: 879971

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.49	0.49	0	

SAMPLE DUPLICATE: 879973

Parameter	Units	70148591001 Result	Dup Result	RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	6.9	6.7	3	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

QC Batch:	181091	Analysis Method:	EPA 420.1
QC Batch Method:	EPA 420.1	Analysis Description:	420.1 Phenolics Macro
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 883097 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	5.0	10/14/20 13:22	

LABORATORY CONTROL SAMPLE: 883098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	100	107	107	90-110	

MATRIX SPIKE SAMPLE: 883099

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	50	55.7	109	75-125	

SAMPLE DUPLICATE: 883100

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	<5.0	<5.0		

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

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

QC Batch:	182142	Analysis Method:	SM22 4500 NH3 H
QC Batch Method:	SM22 4500 NH3 H	Analysis Description:	4500 Ammonia
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

METHOD BLANK: 889073 Matrix: Water  
Associated Lab Samples: 70148482001, 70148482002, 70148482003, 70148482004, 70148482005, 70148482006, 70148482007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.050	10/20/20 13:17	

LABORATORY CONTROL SAMPLE: 889074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	109	90-110	

MATRIX SPIKE SAMPLE: 889075

Parameter	Units	70148482003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.1	1	2.2	113	75-125	

SAMPLE DUPLICATE: 889076

Parameter	Units	70148482003 Result	Dup Result	RPD	Qualifiers
Nitrogen, Ammonia	mg/L	1.1	1.1	1	

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### QUALITY CONTROL DATA

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

QC Batch: 181877	Analysis Method: SM22 5310B
QC Batch Method: SM22 5310B	Analysis Description: 5310B TOC
	Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70148482001, 70148482002

METHOD BLANK: 887728 Matrix: Water

Associated Lab Samples: 70148482001, 70148482002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	10/20/20 08:45	

LABORATORY CONTROL SAMPLE: 887729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.0	100	85-115	

MATRIX SPIKE SAMPLE: 887731

Parameter	Units	30386210005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.0 U	10	11.9	117	75-125	

SAMPLE DUPLICATE: 887730

Parameter	Units	30386210004 Result	Dup Result	RPD	Qualifiers
Total Organic Carbon	mg/L	1.4	1.3	3	

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## QUALIFIERS

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

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### 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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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

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.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL 10/6

Pace Project No.: 70148482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70148482001	MW-7C	EPA 3005A	180607	EPA 6010C	180622
70148482002	MW-8B	EPA 3005A	180607	EPA 6010C	180622
70148482003	MW-10B	EPA 3005A	181112	EPA 6010C	181114
70148482004	MW-12B	EPA 3005A	181112	EPA 6010C	181114
70148482005	MW-13	EPA 3005A	181112	EPA 6010C	181114
70148482006	MW-14	EPA 3005A	181112	EPA 6010C	181114
70148482007	DUP	EPA 3005A	181112	EPA 6010C	181114
70148482001	MW-7C	EPA 8260C/5030C	180987		
70148482002	MW-8B	EPA 8260C/5030C	180987		
70148482003	MW-10B	EPA 8260C/5030C	180987		
70148482004	MW-12B	EPA 8260C/5030C	180987		
70148482005	MW-13	EPA 8260C/5030C	180987		
70148482006	MW-14	EPA 8260C/5030C	180987		
70148482007	DUP	EPA 8260C/5030C	180987		
70148482008	TRIP BLANK	EPA 8260C/5030C	180987		
70148482001	MW-7C	EPA 8260			
70148482002	MW-8B	EPA 8260			
70148482003	MW-10B	EPA 8260			
70148482004	MW-12B	EPA 8260			
70148482005	MW-13	EPA 8260			
70148482006	MW-14	EPA 8260			
70148482007	DUP	EPA 8260			
70148482008	TRIP BLANK	EPA 8260			
70148482001	MW-7C	SM22 2320B	180498		
70148482002	MW-8B	SM22 2320B	180498		
70148482003	MW-10B	SM22 2320B	180498		
70148482004	MW-12B	SM22 2320B	180498		
70148482005	MW-13	SM22 2320B	180498		
70148482006	MW-14	SM22 2320B	180498		
70148482007	DUP	SM22 2320B	180498		
70148482001	MW-7C	SM22 2340C	182120		
70148482002	MW-8B	SM22 2340C	182120		
70148482003	MW-10B	SM22 2340C	182120		
70148482004	MW-12B	SM22 2340C	182120		
70148482005	MW-13	SM22 2340C	182120		
70148482006	MW-14	SM22 2340C	182120		
70148482007	DUP	SM22 2340C	182120		
70148482001	MW-7C	SM22 2540C	180509		
70148482002	MW-8B	SM22 2540C	180509		
70148482003	MW-10B	SM22 2540C	180509		
70148482004	MW-12B	SM22 2540C	180509		
70148482005	MW-13	SM22 2540C	180509		
70148482006	MW-14	SM22 2540C	180509		
70148482007	DUP	SM22 2540C	180509		
70148482001	MW-7C	EPA 410.4	180698	EPA 410.4	180716

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70148482002	MW-8B	EPA 410.4	180698	EPA 410.4	180716
70148482003	MW-10B	EPA 410.4	180698	EPA 410.4	180716
70148482004	MW-12B	EPA 410.4	180698	EPA 410.4	180716
70148482005	MW-13	EPA 410.4	180698	EPA 410.4	180716
70148482006	MW-14	EPA 410.4	180698	EPA 410.4	180716
70148482007	DUP	EPA 410.4	180698	EPA 410.4	180716
70148482001	MW-7C	SM22 5210B	180397	SM22 5210B	181144
70148482002	MW-8B	SM22 5210B	180397	SM22 5210B	181144
70148482003	MW-10B	SM22 5210B	180397	SM22 5210B	181144
70148482004	MW-12B	SM22 5210B	180397	SM22 5210B	181144
70148482005	MW-13	SM22 5210B	180397	SM22 5210B	181144
70148482006	MW-14	SM22 5210B	180397	SM22 5210B	181144
70148482007	DUP	SM22 5210B	180397	SM22 5210B	181144
70148482001	MW-7C	EPA 300.0	180868		
70148482002	MW-8B	EPA 300.0	180868		
70148482003	MW-10B	EPA 300.0	180868		
70148482004	MW-12B	EPA 300.0	180868		
70148482005	MW-13	EPA 300.0	180868		
70148482006	MW-14	EPA 300.0	180868		
70148482007	DUP	EPA 300.0	181212		
70148482001	MW-7C	EPA 351.2	181676	EPA 351.2	181697
70148482002	MW-8B	EPA 351.2	181676	EPA 351.2	181697
70148482003	MW-10B	EPA 351.2	181676	EPA 351.2	181697
70148482004	MW-12B	EPA 351.2	181676	EPA 351.2	181697
70148482005	MW-13	EPA 351.2	181676	EPA 351.2	181697
70148482006	MW-14	EPA 351.2	181676	EPA 351.2	181697
70148482007	DUP	EPA 351.2	181676	EPA 351.2	181697
70148482001	MW-7C	EPA 353.2	180488		
70148482002	MW-8B	EPA 353.2	180488		
70148482003	MW-10B	EPA 353.2	180488		
70148482004	MW-12B	EPA 353.2	180488		
70148482005	MW-13	EPA 353.2	180488		
70148482006	MW-14	EPA 353.2	180488		
70148482007	DUP	EPA 353.2	180488		
70148482001	MW-7C	EPA 353.2	180478		
70148482002	MW-8B	EPA 353.2	180478		
70148482003	MW-10B	EPA 353.2	180478		
70148482004	MW-12B	EPA 353.2	180478		
70148482005	MW-13	EPA 353.2	180478		
70148482006	MW-14	EPA 353.2	180478		
70148482007	DUP	EPA 353.2	180478		
70148482001	MW-7C	EPA 420.1	181091	EPA 420.1	181134
70148482002	MW-8B	EPA 420.1	181091	EPA 420.1	181134
70148482003	MW-10B	EPA 420.1	181091	EPA 420.1	181134
70148482004	MW-12B	EPA 420.1	181091	EPA 420.1	181134

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ISCHUA LANDFILL 10/6  
Pace Project No.: 70148482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70148482005	MW-13	EPA 420.1	181091	EPA 420.1	181134
70148482006	MW-14	EPA 420.1	181091	EPA 420.1	181134
70148482007	DUP	EPA 420.1	181091	EPA 420.1	181134
70148482001	MW-7C	SM22 4500 NH3 H	182142		
70148482002	MW-8B	SM22 4500 NH3 H	182142		
70148482003	MW-10B	SM22 4500 NH3 H	182142		
70148482004	MW-12B	SM22 4500 NH3 H	182142		
70148482005	MW-13	SM22 4500 NH3 H	182142		
70148482006	MW-14	SM22 4500 NH3 H	182142		
70148482007	DUP	SM22 4500 NH3 H	182142		
70148482001	MW-7C	SM22 5310B	181877		
70148482002	MW-8B	SM22 5310B	181877		
70148482003	MW-10B	SM22 5310B	182054		
70148482004	MW-12B	SM22 5310B	182054		
70148482005	MW-13	SM22 5310B	182054		
70148482006	MW-14	SM22 5310B	182054		
70148482007	DUP	SM22 5310B	182054		

### REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70148482

Client Name: LBA-B

Proj

PM: RKS

Due Date: 10/21/20

CLIENT: LBA-B

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other

Tracking #: 9284 0936 5185

Custody Seal on Cooler/Box Present: [ ] Yes [ ] No Seals intact: [ ] Yes [ ] No

Temperature Blank Present: [ ] Yes [X] No

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] Ziploc [ ] None [ ] Other

Type of Ice: (Wet) Blue None

Thermometer Used: TH091 Correction Factor: -0.2

[ ] Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.0 Cooler Temperature Corrected (°C): 5.0

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: KH 10/17/20

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 [X] No

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

Table with 2 main columns: Chain of Custody/Analysis questions and COMMENTS. Includes rows for Chain of Custody Present, Filled Out, Relinquished, Sampler Name, Hold Time, Short Hold Time Analysis, Rush Turn Around Time, Sufficient Volume, Containers Used, Intact, Filtered volume, Labels match, Preservation checked, pH paper, EPA compliance, dechlorination, Headspace, Trip Blank, and Custody Seals.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Client did not provide volume for sample

MW-11B.

# APPENDIX D

## Historical Analytical Results Tables





MW-6A  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
Acetone				ND	ND	ND	ND		2.4						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1091	50.0		
Acrylonitrile				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Benzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0	
Bromobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
Bromochloromethane	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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0	
2-Butanone				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	50.0	
n-Butylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
sec-Butylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
tert-Butylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
Carbon disulfide				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	60.0
Carbon tetrachloride	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
Chlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
Chloroethane	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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
2-Chlorotoluene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
4-Chlorotoluene	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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
1,2-Dichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3.0
1,3-Dichlorobenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3.0
1,4-Dichlorobenzene	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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
1,1-Dichloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
1,2-Dichloroethane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.6
1,1-Dichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
cis-1,2-Dichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
trans-1,2-Dichloroethene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
1,2-Dichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1.0
1,3-Dichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
2,2-Dichloropropane	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
1,1-Dichloropropene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
cis-1,3-Dichloropropene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.4
trans-1,3-Dichloropropene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.4
Ethylbenzene	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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.5
Iodomethane				ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
Isopropylbenzene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
p-Isopropyltoluene	ND			ND	ND	ND	ND		ND						ND				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
Methylene chloride	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																																

MW-6A  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
Calcium							78.6								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3667	
Iron							11								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6111	0.3
Magnesium							23.3								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2944	35.0
Manganese							0.36								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	0.3
Potassium							4.6								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2556	
Sodium							4.9								0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2722	20.0
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0008	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
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
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
Color (PCU units)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15
Nitrate-Nitrite															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	10
Nitrogen-Ammonia															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2
Phenols															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.001
Sulfate															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	250
Total Organic Carbon (TOC)				ND	ND	2.3	1.5		1.4						0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4333	
Total Dissolved Solids (TDS)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	500
Total Hardness															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Total Kjeldahl Nitrogen (TKN)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
Turbidity (NTU units)															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	5.0
Cyanide															0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
\* = Applies to the sum of cis and trans-1,3-dichloropropene.  
\*\* = Guidance Value.  
ND values are included in calculation of Mean and are considered equal to zero.  
(Blank) or "-" = Not Analyzed.  
ND = Not Detected. J = Estimated.  
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-6D  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/02	3/03	9/03			
Acetone																																									
Acrylonitrile																																									
Benzene	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	
Bromochloromethane	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		ND					ND					ND		ND	ND	ND	
Bromoform	ND	ND	ND	ND			ND		ND		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	
2-Butanone																																									
n-Butylbenzene	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	
tert-Butylbenzene	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	
Chlorobenzene	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	
Chloroform	0.36	ND	ND	ND			ND		ND		ND				ND					ND				ND		ND					ND					ND		ND	ND	ND	
Chloromethane	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	
4-Chlorotoluene	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		ND					ND					ND		ND	ND	ND	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND			ND		ND		ND				ND					ND				ND		ND					ND					ND		ND	ND	ND	
1,2-Dibromoethane	ND	ND	ND	ND			ND		ND		ND				ND					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	
1,2-Dichlorobenzene	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	
1,4-Dichlorobenzene	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	4.0			5.0		3.0		ND				ND				0.90				0.9 J		ND					ND					ND		ND	ND	ND		
1,1-Dichloroethane	0.51	0.69	<DL	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	
1,1-Dichloroethene	ND	ND	<DL	ND			ND		ND		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		ND	ND	ND	
trans-1,2-Dichloroethene	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	
1,3-Dichloropropane	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	
1,1-Dichloropropene	ND	ND	<DL	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	
trans-1,3-Dichloropropene	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	
2-Hexanone																																									
Hexachlorobutadiene	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	
p-Isopropyltoluene	ND	ND	ND	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		ND	ND	ND	
4-Methyl-2-pentanone																																									
Naphthalene	ND	ND	<DL	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	
Styrene	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	
1,1,2,2-Tetrachloroethane	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	
Toluene	ND	ND	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	
1,2,4-Trichlorobenzene	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										

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	9/02	3/03	9/03									
<b>PARAMETER METALS (mg/L)</b>																																															
Aluminum	5.7								34.30																														16.3								
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																				88.1	90.9	98.8						
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																				10.3	24.7	31.6						
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																				23.7	25.6	27.8						
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																				0.235	0.689	0.9						
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																				7.12	6.46	6.58						
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																				5.77	5.24	6.21						
<b>PARAMETER (mg/l) TOXIC METALS</b>																																															
Antimony	<DL								0.028																																ND						
Arsenic	ND								0.029																																ND						
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																				0.092	0.162	0.23						
Beryllium									0.003																																ND						
Cadmium		0	ND	ND			ND	ND	ND	ND	ND	ND			0.008	ND			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	0.02			
Copper	<DL								ND																																	0.02					
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	0.01		
Mercury	ND	<DL	ND	ND			ND	ND	ND	ND	ND	ND		ND	ND	ND			ND																							ND	ND				
Nickel	0.25								0.040																																		ND				
Selenium	0.028	<DL	<DL	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				
Thallium	0.04								ND																																	ND					
Zinc	0.04								0.182																																	0.08					
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																															
Alkalinity	531	237	243	241			286.0	268.0	278.0	240.0	252	239		239	250	255			246																						318		266	340			
Biochemical Oxygen Demand	20								12.0																																			ND			
Boron	ND								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																							73.9	ND	ND			
Chromium (Hexavalent)	<DL								ND																																			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																							6.91	4.28	3.8			
Color (PCU units)	15								10.0																																			5			
Nitrate-Nitrite	<DL	<DL	<DL	0.68			ND	0.3	0.14	ND	0.277	0.087		0.331	ND	ND			ND																							0.098	ND	0.07			
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																								ND				
Phenols	0.003	ND	ND	0.811			ND	ND	ND	ND	0.003	0.007		ND	0.008	ND			0.012																								0.014	0.0118	ND		
Sulfate	29	39.8	25.4	32			29.0	36.0	17.0	42.0	37	39		37	35	34			30																								40	30.1	28		
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																								12.0	3.9	ND		
Total Dissolved Solids (TDS)	324	351	294	366			281.0	336.0	290.0	305.0	318	331		361	282	296			266																									336	333	358	
Total Hardness	248	304	237	368			238.0	255.0	1070	308.0	981	360		840	654	310			262																										318	332	361
Total Kjeldahl Nitrogen (TKN)	7.7								ND																																				1.7		
Turbidity (NTU units)	0.5	3150	195	910			83.0	400	650	1600	2000	1600		340	30	110			340																										61	220	750
Cyanide	0.004								ND																																				ND		

MW-6D  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD
Acetone					ND	ND	2.3		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.09	50.0
Acrylonitrile					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	-	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	-	0.00	5.0
Bromochloromethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
Bromodichloromethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	50.0
Bromofrom	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		0.45	-	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	-	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	-	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	-	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	-	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	-	0.00	60.0
Carbon tetrachloride	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
Chlorobenzene	ND	ND	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	-	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	-	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	-	0.18	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	-	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	-	0.00	5.0
Dibromochloromethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	50.0
1,2-Dibromo-3-chloropropane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	0.04
1,2-Dibromoethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
Dibromomethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
1,2-Dichlorobenzene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	3.0
1,3-Dichlorobenzene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	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	-	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	-	0.00	5.0
Dichlorodifluoromethane	ND	0.34	ND		ND	ND	ND		0.37		0.4	0.38	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.33	5.0
1,1-Dichloroethane	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	ND	ND	ND	ND	-	0.13	5.0
1,2-Dichloroethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	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	-	0.00	5.0
cis-1,2-Dichloroethene	ND	ND	ND		ND	0.39	ND		0.3		0.27	0.46	ND		ND	ND	ND		0.3	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.05	5.0
trans-1,2-Dichloroethene	ND	ND	ND		ND	ND	ND		ND		ND	ND	0.35		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	-	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	-	0.00	0.4
trans-1,3-Dichloropropene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	0.34	-	-	-	-	ND	-	ND	ND	ND	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	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	-	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	-	0.00	0.5
Iodomethane					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	-	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	-	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	-	0.07	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	-	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	-	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	-	0.00	5.0
Styrene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
1,1,1,2-Tetrachloroethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
1,1,2,2-Tetrachloroethane	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
Tetrachloroethene	ND	ND	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-										

MW-6D  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER METALS (mg/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
Aluminum		2.4			0.45			1.6		0.49			0.42					0.31	-	-	ND	-	-	-	-	0.367	-	-	27.3	3.15	-	-	-	3.87			
Calcium	95.6	118	139		90.9	87.3		95.6		101	92.9	94		101			96		82.9	-	87.8	ND	-	-	-	90.7	-	96	120	116	103	95.2	-	77.50			
Iron	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	63.4	6.11	0.512	0.123	-	16.16	0.3		
Magnesium	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	35.1	31	27.4	26.4	-	20.90	35.0		
Manganese	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	1.78	0.233	0.0143	0.0266	-	0.41	0.3		
Potassium	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	7.39	ND	2.66	2.8	-	4.35			
Sodium	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	6.62	4.99	7.2	5.5	-	5.06	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	-	-	0.0626	0.0059	-	-	-	-	0.00	0.025	
Barium	0.07	0.16	0.26		0.06	0.06		0.06		0.055	0.047			0.051				0.05	-	-	0.061	-	-	-	-	0.0513	-	-	0.205	0.0736	-	-	-	-	0.11	1.0	
Beryllium		ND			ND			ND		ND				ND				0.0002	-	-	ND	-	-	-	-	ND	-	-	0.0014	ND	-	-	-	-	-	0.00	
Cadmium	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	-	-	0.001	-	-	-	-	ND	-	-	0.0504	0.0088	-	-	-	-	0.02	0.05	
Copper		0.02			ND			ND		ND				ND				0.005	-	-	ND	-	-	-	-	0.003	-	-	0.0533	ND	-	-	-	-	0.00	0.2	
Lead	ND	0.03	0.03		ND	ND		ND		ND	ND	ND		ND			0.002		ND	-	ND	0.005	-	-	-	0.0027	-	0.0048	0.126	0.0139	ND	ND	-	-	0.02	0.025	
Mercury	ND	ND	ND		ND	ND	ND		ND	ND	ND			ND				ND	-	-	ND	-	-	-	-	0.0002	-	-	0.0002	ND	-	-	-	-	0.00	0.0007	
Nickel		ND			ND	ND		ND		ND				ND				ND	-	-	0.004	-	-	-	-	0.0021	-	-	0.0616	0.0092	-	-	-	-	0.02	0.1	
Selenium	ND	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	ND	-	-	-	-	0.00	0.05	
Thallium		ND			ND			ND		ND				ND				ND	-	-	ND	-	-	-	-	ND	-	-	0.005	ND	-	-	-	-	0.00	0.0005	
Zinc		0.03			ND			ND		0.038				ND				0.047	-	-	-	-	-	-	-	0.0084	-	-	0.178	0.0209	-	-	-	-	0.03	2.0	
PARAMETER (mg/l) LEACHATE INDICATOR																																					
Alkalinity	330	289	268		496	175	275		250		337	298	329		382	378	310		319	-	329	-	-	-	-	294	-	311	-	344	-	336	-	237			
Biochemical Oxygen Demand		6.6			ND				ND		ND				ND		ND		ND	-	-	-	-	-	-	1.0	-	ND	-	1.0	1.0	1.0	-	2			
Boron		ND			ND				0.03		0.028				0.03				0.06	-	-	0.06	-	-	-	-	0.0303	-	-	0.0382	0.0286	-	-	-	-	0	1.0
Chemical Oxygen Demand	ND	92.1	ND		ND	ND	ND		ND		ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	50.5	-	21.6	-	12.4	ND	ND	-	28			
Chromium (Hexavalent)		ND			ND				ND		ND				ND				ND	-	-	0.013	-	-	-	-	ND	-	-	ND	-	-	-	-	0	0.05	
Chloride	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	-	2.7	2.7	2.6	-	4.2	250		
Color (PCU units)		160			20				15		ND				50				12	-	-	17	-	-	-	5	-	-	-	25	-	-	-	-	14	15.0	
Nitrate-Nitrite	0.03	ND	ND		ND	ND	ND		ND		0.088	0.58			ND	0.05	0.534		ND	-	ND	ND	-	-	-	0.09	-	ND	-	0.045	0.11	0.052	-	0	10.0		
Nitrogen-Ammonia	0.1	ND	0.14		ND	ND	ND		ND		ND	ND			ND	ND	ND		ND	-	ND	ND	-	-	-	0.026	-	0.022	-	0.032	0.033	ND	-	0	2.0		
Phenols		0.02	ND		ND	0.01	ND		ND		ND	ND	ND		ND		ND		ND	-	ND	ND	-	-	-	0.0041	-	0.0056	-	0.0043	0.0041	0.0025	-	0	0.001		
Sulfate	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	-	18.5	28.7	17.1	-	22.4	250		
Total Organic Carbon (TOC)	1.3	28.4	ND		ND	ND	ND		ND		ND	1.5	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	ND	-	13.6	2.1	1	0.66	1	-	5			
Total Dissolved Solids (TDS)		377	332		359	394	435		363		365	354	331		351		420		738	-	359	381	-	-	-	349	-	381	-	454	348	330	-	292	500		
Total Hardness	336	395	454		325	315	288		342		360	330	340		363		350		301	-	321	342	-	-	-	310	-	330	347	320	340	300	-	324			
Total Kjeldahl Nitrogen (TKN)		2.1			ND				ND		ND				ND		ND		ND	-	-	0.28	-	-	-	0.35	-	ND	-	ND	ND	0.45	-	1			
Turbidity (NTU units)	920	2390	3460		272	95	202		16.9		16	30	5		-		18.02		19.6	-	17.8	24.2	-	-	-	11.7	-	15.8	365.6	20.5	19.51	12.1	-	435	5.0		
Cyanide		ND			ND				ND		ND				ND				ND	-	-	-	-	-	-	ND	-	-	-	0.0024	-	-	-	-	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.  
B = Analyte was detected in method blank.  
<DL = Detected below method detection limit.



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	9/02	3/03	9/03					
<b>PARAMETER METALS (mg/L)</b>																																											
Aluminum	11.2				30.4				0.21				51.8			14.4								14.9		3.74				0.21								0.14					
Calcium	32.7	55.4	41.4	50.7	57.6	30.8	53.1	45.0	47.3	59.7	26.5		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		48.6	43.7			
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		27	16.4			
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		10.2	8.23			
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		11.7	9.91			
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		18.3	20.3			
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		6.68	8.28			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																											
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																0.61	
Beryllium					ND				ND				0				ND							ND		ND																ND	
Cadmium		<DL	<DL		0.08	ND	ND	0.002	ND		ND	0.010	ND	ND	ND	ND	ND		ND	ND	ND		ND		ND		ND		ND	ND													
Chromium (Total)	<DL				0.08				0.01				0.15				0.07							0.051		0.02																ND	
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		0.005		ND		
Mercury	ND				0.080				ND				ND				ND							ND		ND																ND	
Nickel	ND				0.08				0.02				0.18				0.01							0.070		0.05																	ND
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		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		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																	ND
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																											
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		238		225			
Biochemical Oxygen Demand	25				4.0				12								11										14															8	
Boron	0.05				0.17				0.01								ND								0.136		0.1																ND
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		18.1		13			
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		4.17		4.6			
Color (PCU units)	40				ND				125								10										30															20	
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		ND		0.03			
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		2.21		2.8			
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		0.0116		0.002			
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		8.71		12			
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	3.6	4.2		6.1			
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		283		255			
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		163		143			
Total Kjeldahl Nitrogen (TKN)	4.6				4.6				3.67				4.12				11.3									ND																3.6	
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		84		64			
Cyanide	0.13				ND				ND				ND				ND										ND															ND	

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HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
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	ND	ND	ND	ND	-	0.56	50.0	
Acrylonitrile				ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	0.00	5.0	
Benzene	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	ND	ND	ND	0.91	-	1.23	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	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	-	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	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	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	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	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	ND	-	0.00	60.0
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.00	5.0
Chlorobenzene	ND	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	ND	ND	ND	ND	ND	-	0.07	5.0
Chloroethane	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	ND	ND	ND	ND	ND	-	0.25	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	-	0.01	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	ND	ND	-	0.73	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	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	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	-	0.00	5.0
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.00	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.00	3.0
1,4-Dichlorobenzene	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	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	ND	ND	ND	ND	ND	-	0.00	5.0
Dichlorodifluoromethane	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	ND	ND	-	9.7	-	1.4	-	-	-	-	-	0.29	5.0	
1,1-Dichloroethane	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	ND	ND	ND	ND	-	1.71	5.0	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.14	0.6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.07	5.0
cis-1,2-Dichloroethene	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	3.0	ND	ND	ND	2	-	1.07	5.0	
trans-1,2-Dichloroethene	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	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	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	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	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	ND	ND	ND	-	0.00	5.0
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.00	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.00	0.4
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	-	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	0.05	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	ND	-	0.00	50.0
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND																									

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	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum		1.1		ND		ND			ND		0.251				ND				0.04	-	-	ND	ND	-	ND	-	0.03	0.853	-	0.104	0.295	-	-	-	4.05	
Calcium	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	48.2	53.3	-	51.8	-	42.73	
Iron	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	25.2	27.7	-	25	-	22.31	0.3
Magnesium	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	9.51	10.6	-	10.4	-	9.45	35.0
Manganese	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	12.7	14.1	-	14.7	-	10.65	0.3
Potassium	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	17.9	12.2	-	13.9	-	18.36	
Sodium	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	4.42	3.39	-	4.08	-	5.85	20.0
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony		ND		ND		ND			ND		ND				ND				0	-	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	-	-	0.00	0.003
Arsenic		0.04		ND		0.043			ND		0.016				ND				0.007	-	-	0.026	0.026	-	0.026	-	0.01	0.01	-	0.0413	0.0461	-	-	-	0.02	0.025
Barium		0.5		0.59		0.76			0.65		0.45				0.65				0.661	-	-	0.681	0.36	-	0.499	-	0.76	0.614	-	0.617	0.588	-	-	-	0.53	1.0
Beryllium		ND		ND		ND			ND		ND				ND				2E-04	-	-	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	-	8E-05	ND	ND	ND	ND	-	ND	-	0.00	0.005
Chromium (Total)		0.01		ND		ND			ND		ND				ND				0.003	-	-	0.003	0.001	-	0.011	-	0.006	ND	-	ND	ND	-	-	-	0.01	0.05
Copper		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	0.003	ND	-	ND	ND	-	-	-	0.00	0.2
Lead	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	0.0021	ND	-	ND	-	0.01	0.025
Mercury		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	ND	-	2E-04	-	0.0001	ND	-	-	-	0.00	0.0007	
Nickel		ND		ND		ND			ND		ND				ND				0.012	-	-	0.011	0.005	-	ND	-	0.013	0.005	-	0.0048	0.0056	-	-	-	0.02	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND				0.007	-	-	0.006	0.008	-	ND	-	ND	ND	-	ND	ND	-	-	-	0.00	0.01
Silver	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND				ND	-	-	0.003	0.002	-	ND	-	ND	ND	-	ND	0.0023	-	-	-	0.00	0.05
Thallium		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	0.014	-	ND	ND	-	0.0145	0.0097	-	-	-	0.00	0.0005
Zinc		ND		ND		0.039			0.02		0.032				0.038				0.063	-	-	0.036	0.015	-	ND	-	0.01	0.008	-	0.0078	ND	-	-	-	0.03	2.0
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity	180	144	101	203	218	263	96.7		121		145	188	128		252	328	240		209	-	250	265	120	160	193	-	287	243	206	249	221	-	245	-	199.1	
Biochemical Oxygen Demand	ND	ND	ND	ND	2.8				4.4		3.2				5.7		12		5	-	-	10.4	2.1	4.9	6	-	7.3	ND	8.5	8.3	10.1	-	8.8	-	5.6	
Boron		0.07		0.08		0.073			0.05		0.057				0.057				0.08	-	-	0.06	0.07	-	ND	-	0.061	0.082	-	0.0865	0.0457	-	-	-	0.0	1.0
Chemical Oxygen Demand	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	50.2	43.3	-	39.9	-	25.6	
Chromium (Hexavalent)		ND		ND		ND			ND		ND				ND				ND	-	-	ND	ND	-	-	-	ND	-	ND	ND	-	-	-	-	0.5	0.05
Chloride	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	4.6	2.7	-	2	-	5.3	250
Color (PCU units)		50		100		250			25		60				200				130	-	-	280	120	-	10	-	15	-	75	100	-	-	-	-	61.3	15
Nitrate-Nitrite	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	0.07	ND	-	0.085	-	0.2	10
Nitrogen-Ammonia	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	1.2	2.4	-	2	-	1.8	2.0
Phenols	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	0.0095	0.0095	-	0.0031	-	0.0	0.001
Sulfate	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	24.6	5.1	-	4.6	-	11.6	250
Total Organic Carbon (TOC)	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	5.7	6.4	-	6.3	-	7.3	
Total Dissolved Solids (TDS)	208	213	107	248	336	231	351		244		184	221	178		265	309	350		242	-	291	293	141	259	207	-	272	448	296	246	254	-	247	-	238.7	500
Total Hardness	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	187	170	-	480	-	157.1	
Total Kjeldahl Nitrogen (TKN)		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	0.43	2.2	-	3.3	-	2.7	
Turbidity (NTU units)	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	10.5	3.5	-	5.3	-	128.6	5.0
Cyanide		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-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	9/02	3/03	9/03	3/04			
<b>PARAMETER METALS (mg/L)</b>																																										
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																																				
<b>PARAMETER (mg/l) TOXIC METALS</b>																																										
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																																					
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																										
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

	9/04	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																			
Aluminum			ND		ND		ND	ND		ND		ND	ND		ND	ND	0	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.72		
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	97.8	115	104	93.7	101	98.18	
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	0.147	0.0392	0.0303	0.0604	0.104	1.17	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	15.7	18.4	17	15.2	16.4	15.89	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	2.95	0.48	0.70	1.05	4.41	1.54	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	1.79	ND	1.68	2.08	1.45	2.14	
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	6.24	7.14	6.71	9.04	6.42	6.43	20.0
<b>PARAMETER (mg/l) TOXIC METALS</b>																																			
Antimony			ND		ND		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	-	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	-	0.14	0.0741	-	-	-	0.08	1.0
Beryllium			ND		ND		ND	ND		ND		ND	ND		ND	0.0002		-	-	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	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	ND	-	-	-	-	0.00	0.05	
Copper			ND		ND		ND	ND		ND		ND	ND		ND	0.003		-	-	ND	ND	-	ND	ND	ND	0.0026	ND	-	ND	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	ND	ND	ND	ND	0.00	0.025	
Mercury			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	0.0001	-	0.0001	0.0001	-	-	-	0.00	0.0007	
Nickel			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	0.0016	0.0015	-	0.0011	ND	-	-	-	0.02	0.1
Selenium			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	0.003	0.003	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.0	
Silver			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.05	
Thallium			ND		ND		ND	ND		ND		ND	ND		ND	ND	0	-	-	ND	ND	-	ND	ND	ND	ND	0.0052	-	ND	ND	-	-	-	0.00	0.0005
Zinc			ND		0.015		0.028	0.011		0.012			0.034	ND			0.012	0.011	-	-	0.011	ND	-	0.0276	ND	0.0237	0.0495	-	0.0292	0.0227	-	-	-	0.02	2.0
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																			
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	314	327	313	344	355	312.1	
Biochemical Oxygen Demand			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	1.0	1.0	ND	ND	1.0	1.0	1.0	ND	0.3	
Boron			ND		ND		ND	ND		ND		0.02	0.021				ND	ND	-	-	0.03	0.05	-	ND	ND	0.0166	0.0187	-	0.0136	ND	-	-	-	0.0	1.0
Chemical Oxygen Demand			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	15.5	ND	ND	ND	20.9	5.4		
Chromium (Hexavalent)			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0033	-	-	ND	ND	-	-	-	-	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	6.3	5.7	5.9	6.8	5.0	12.7	250
Color (PCU units)			13.0		15.0		50	5		ND		0	17.5			ND	8	-	-	12	8	-	5	5	5	-	-	15	10	-	-	-	6.7	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	ND	ND	0.083	0.055	0.099	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	0.089	0.066	0.21	ND	ND	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	ND	0.0054	0.004	ND	ND	0.0080	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	9.3	6.8	8.3	6.5	6.8	8.0	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	1.7	1.6	0.7	1.0	1.8	17.5	
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	323	310	302	335	342	336.7	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	273	280	300	300	300	297.3	
Total Kjeldahl Nitrogen (TKN)			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	0.24	0.28	-	0.13	ND	0.21	0.15	ND	2.8	ND	ND	0.38	ND	0.68	1.5		
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	25.1	13.5	9.04	6.1	42.1	26.0	5.0
Cyanide			ND		ND		ND	ND		ND		ND	ND		ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0024	-	-	-	-	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.  
J = Estimated.  
ND = Not Detected.  
<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	9/02	3/03	9/03		
<b>PARAMETER METALS (mg/L)</b>																																								
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		ND		0.22		
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	65.5	65.4	65.3		
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	7.05	6.61	8.1		
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	9.83	10.3	9.54		
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	7.43	7.62	8.05		
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	3.01	2.7	3.16		
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	7.18	6.69	5.48		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																								
Antimony	0.01				ND				0.04				ND				ND				ND			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		0.02		ND		ND
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		0.19		0.17		0.17
Beryllium					ND				ND				ND				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	0.002	0.004	0.01	ND	ND	ND	0.005	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (Total)	<DL				ND				0				0.01				ND				0.046			ND		ND		ND		ND		ND		ND		ND		ND		ND
Copper	<DL				ND				ND				0.01				0.01				0.025			ND		ND		ND		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	0.004	0.01	ND		
Mercury	ND				ND				ND				ND				ND				0.0003			ND		ND		ND		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		0.04		0.04		ND
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	ND	ND	ND	ND	ND
Silver	0.03				ND				ND				ND				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		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		ND		0.03		ND
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																								
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	219	270	250		
Biochemical Oxygen Demand	28				ND				13				3				ND				17			4		ND		16		ND		5		18		ND		4		4
Boron	<DL				0.04				ND				ND				ND				0.072			0.072		0.07		0.08		0.11		0.08		ND		0.08		0.05		
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	33.6	32.1	42		
Chromium (Hexavalent)	ND				ND				ND				ND				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	12.8	7.79	6.7		
Color (PCU units)	45				ND				60.0				30				35				25			200		30		500		250		45		750				10		
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	0.107	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	1.87	1.45	2.4		
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	0.01	0.01	ND		
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	8.76	8.22	8.2		
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	2.9	2.5	10		
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		311	285		
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	204	206	202		
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				1.81		4.5		
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		8	19		
Cyanide	ND				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND		ND



MW-8B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum		ND		ND		ND		ND	ND		ND		ND	ND		ND	ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0473	-	0.0416	ND	-	-	-	0.37		
Calcium	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	74.4	79.1	84.4	70	86.6	74.18			
Iron	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	7.15	3.97	5.01	3.15	2.3	11.85	0.3		
Magnesium	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	10.7	11.4	12.3	10.1	12.6	11.33	35.0		
Manganese	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	8.25	6.8	7.52	5.41	6.02	8.74	0.3		
Potassium	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	3.05	ND	2.76	2.3	1.97	2.99			
Sodium	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	7.0	5.8	4.7	6.5	7.5	6.68	10.7	7.13	4.71	6.0	5.1	5.52	7.1	6.6	7.42	7.55	20.0		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony		ND		ND		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		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	-	0.0228	0.017	-	-	-	0.03	0.025	
Barium		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	-	0.126	0.125	-	-	-	0.17	1.0	
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND				ND	0.0002	-	-	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	ND	ND	ND	ND	0.00	0.005
Chromium (Total)		ND		ND		ND		ND	ND		ND			ND	ND				ND	ND	-	-	0.002	ND	-	ND	ND	0.0017	0.004	-	ND	ND	-	-	-	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	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	0.0013	ND	ND	ND	ND	0.01	0.025	
Mercury		ND		ND		ND		ND	ND		ND			ND	ND				ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0001	ND	-	-	-	0.00	0.0007	
Nickel		ND		ND		ND		ND	ND		ND			ND	ND				ND	0.0006	-	-	0.007	0.005	-	ND	ND	0.0052	0.0057	-	0.0048	0.0047	-	-	-	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	-	-	0.004	0.005	-	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00	0.0	
Silver		ND		ND		ND		ND	ND		ND			ND	ND				ND	ND	-	-	0.002	0.002	-	ND	ND	ND	ND	-	ND	0.0021	-	-	-	0.00	0.05	
Thallium		ND		ND		ND		ND	ND		ND			ND	ND				ND	ND	-	-	ND	ND	-	0.0128	ND	ND	ND	-	0.0103	ND	-	-	-	0.00	0.0005	
Zinc		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	-	0.0099	ND	-	-	-	0.02	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	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	278	238	261	247	317	262.21			
Biochemical Oxygen Demand		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	ND	1.8	1.4	1	ND	3.97		
Boron		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	-	0.0565	0.0386	-	-	-	0.04	1.0		
Chemical Oxygen Demand	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	46.1	10.2	12.4	10.4	27.3	27.63			
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	-	-	0.00	0.05	
Chloride	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	4.9	2.6	11.8	2.0	9.7	11.76	250		
Color (PCU units)		12		18		70		30	20		7.5			0	7.5			ND	170	-	-	27	38	-	5	20	10	-	-	15	5	-	-	-	62.44	15		
Nitrate-Nitrite	ND	ND	ND	ND	ND	ND	ND	0.24	ND	0.077	ND	ND		ND	ND	ND	ND	ND	ND	0.68	0.032	0.062	ND	ND	ND	0.066	0.05	0.06	0.11	10								
Nitrogen-Ammonia	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	0.99	0.86	1.0	0.6	0.90	1.62	2.0		
Phenols	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	0.0274	0.0069	0.0041	ND	ND	0.02	0.001		
Sulfate	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	5.7	6.6	8.5	6.4	7.7	8.57	250		
Total Organic Carbon (TOC)	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	6.2	2.2	2.8	2.3	2.0	6.58			
Total Dissolved Solids (TDS)	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	279	410	306	337	343	298.52	500		
Total Hardness	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	173	180	220	260	160	236.53			
Total Kjeldahl Nitrogen (TKN)		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	2.4	1.2	1.5	1.5	1.3	2.28		
Turbidity (NTU units)	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	20.1	10.9	9.42	1.5	8.81	26.88	5.0		
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	0.0024	-	-	-	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

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HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/02	3/03	9/03					
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	ND			
1,1-Dichloroethane	5.73	5.65	7.73	4.0	3.0	4.0	2.0										3.0	ND																				3.05	2.1				
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	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																																											

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HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02	9/02	3/03	9/03		
<b>PARAMETER METALS (mg/L)</b>																																								
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																							
Iron	110	90.3	0.6	72.3	40.6	25.6	37.5	36.2						73.1		68.1	77.2																							
Magnesium	14.4	19.5	13.3	16.3	11.9	8.6	10.2	15.3						16.4		16.2	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																							
Potassium	10.5	8.7	5.8	12.8	6.9	5.7	6.1	8.1						11.9		10.5	8.9																							
Sodium	3.4	2.2	3	4.5	4.1	3.3	3.7	6.3						3.7		3.24	4.0																							
<b>PARAMETER (mg/l) TOXIC METALS</b>																																								
Antimony	<DL				ND												ND																							
Arsenic	ND				0.015												0.028																							
Barium	0.21																0.208																							
Beryllium					ND												0.002																							
Cadmium		ND	0	ND	ND	ND	ND	ND						ND		ND	ND																							
Chromium (Total)	0.06	0.03	0.02	0.08	0.07	0.05	0.04	0.06						0.11		0.076																								
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																							
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																							
Silver	ND				ND												ND																							
Thallium	ND				ND												ND																							
Zinc	0.32				0.16												0.28																							
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																								
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									0.1																							
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																										
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

PARAMETER METALS (mg/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
Aluminum						2.3			ND		0.238			ND	0.59			0.12	ND	-	-	-	ND	-	ND	-	0.056	-	-	0.43	0.251	-	-	-	4.90		
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	-	-	76.4	78.4	-	79	-	51.73		
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	-	-	1.78	1.44	-	2.64	-	18.08	0.3	
Magnesium						8.2	6.9		8.5	9.1	8.44	8.26	8.98	8.74	9.5	9.8	9.2	10	8.8	-	9.9	-	9.5	10.1	9.52	-	10.6	-	-	10.1	10.4	-	10.4	-	9.27	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	-	-	0.658	1.53	-	0.884	-	0.44	0.3	
Potassium						1.9	1		1.4	5	1.61	1.18	1.17	1.7	1.8	1.7	1	2.3	1.2	-	2.1	-	1.4	3.3	ND	-	2.04	-	-	1.83	ND	-	5.5	-	3.61		
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	-	-	5.33	4.62	-	7.62	-	3.41	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony						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	-	-	-	0.00	0.025	
Barium						0.04			0.02		0.019			0.019	0.029			ND	0.016	-	-	-	0.021	-	ND	-	0.02	-	-	0.0377	0.0314	-	-	-	0.03	1.0	
Beryllium						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	-	0.00	0.005	
Chromium (Total)						0.01			ND	ND	ND	ND		ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	-	-	0.0069	ND	-	-	-	0.02	0.05	
Copper						ND			ND		ND			ND	ND			ND	ND	-	-	-	ND	-	ND	-	ND	-	-	0.0044	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	-	-	ND	ND	-	0.0038	-	0.00	0.025	
Mercury						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	-	-	-	0.002	-	ND	-	0.001	-	-	0.0042	0.0054	-	-	-	0.04	0.1	
Selenium						ND	ND		ND	ND	ND	ND		ND	ND			ND	ND	-	-	-	0.004	-	ND	-	ND	-	-	ND	ND	-	-	-	0.00	0.0	
Silver						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	-	-	-	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	-	-	0.323	0.306	-	-	-	0.10	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity						158	155						1.860			226	220		180	-	-	-	-	-	-	-	200	-	-	-	-	-	-	82.0			
Biochemical Oxygen Demand						-			ND		ND			ND	ND			ND	ND	-	-	-	-	-	-	-	1.2	-	-	-	-	-	-	-	0.1		
Boron						ND			ND		ND			ND	ND			ND	ND	-	-	-	-	-	ND	-	0.01	-	-	0.0115	ND	-	-	-	0.0	1.0	
Chemical Oxygen Demand						14.9	23.4		19.2				ND	ND	ND	107	ND		6	-	30.3	-	-	-	-	ND	17.2	-	-	44.1	12.4	-	160	-	16.5		
Chromium (Hexavalent)						ND			ND		ND			ND	ND			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	-	-	-	-	-	-	-	5.9	250	
Color (PCU units)						-												12	-	-	-	-	-	-	-	5	10	-	-	-	-	-	-	-	1.6	15.0	
Nitrate-Nitrite						0.05	0.15										0.069		ND	ND	-	-	-	-	-	0.055	0.035	-	-	ND	0.078	-	0.95	-	0.1	10.0	
Nitrogen-Ammonia						ND	ND		ND				ND	ND	ND	ND	ND		ND	ND	-	-	-	-	-	ND	0.026	-	-	0.091	0.033	-	ND	-	0.0	2.0	
Phenols						ND	0.0081		ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	-	-	-	-	-	-	0.003	-	-	0.0161	0.0033	-	ND	-	0.0	0.001	
Sulfate						8.2	10.1						9.52	8.13		8.8	8.5		8.3	-	7.9	-	-	-	-	-	9.6	-	-	-	-	-	-	-	6.5	250	
Total Organic Carbon (TOC)						-	1.5	5	2.4	2.3		ND	BD	ND	2.5	ND	ND		1.5	-	-	-	-	-	-	2.6	ND	5.8	15.8	3.8	2.5	-	50.7	-	4.4		
Total Dissolved Solids (TDS)						244	177										240		215	-	228	-	-	-	-	-	225	-	-	-	-	-	-	-	118.6	500	
Total Hardness						185	160		205			190	190	170		195		200	173	-	194	-	-	-	-	170	-	200	-	-	200	180	-	240	-	139.4	
Total Kjeldahl Nitrogen (TKN)						ND								ND	ND			ND	ND	-	-	-	-	-	-	0.11	0.27	-	-	0.35	0.49	-	2.2	-	0.4		
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	28.8	26.5	-	-	-	118.7	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  
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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	9/02	3/03	9/03		
<b>PARAMETER METALS (mg/L)</b>																																								
Aluminum					12.6				6.27				1.33				ND					1.44			1.80		2.43		0.13		0.1		0.146		ND		ND		0.71	
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	69.3	57.4	61.2		
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	4.89	4.25	8.82		
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	21.6	19.2	21.3		
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	11.2	8.8	10.1		
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	3.02	2.87	2.71		
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	9.64	8.99	9.91		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																								
Antimony					ND				ND				ND				ND					ND			ND		ND		0.05		ND		ND		ND		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		0.016		ND
Barium					0.17				0.25				0.1				ND						0.13		0.124		0.13		0.09		0.09		0.105		0.11		0.105		0.1	
Beryllium					ND				ND				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	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		ND		0.01	
Copper					0.02				ND				ND				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	0.007	0	ND		
Mercury					ND				ND				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		0.046		ND
Selenium		<DL			ND				ND				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		ND		ND
Thallium					ND				ND				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		0.029		0.01
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																								
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	286	276	335		
Biochemical Oxygen Demand					3				ND				7				8					15		9		13		17		ND		9		14		4		7		
Boron					0.1				ND				0.02				ND					0.07		0.112		0.06		0.08		0.07		0.081		0.08		0.073		0.05		
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	38.8	12.8	38		
Chromium (Hexavalent)					ND				ND				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	19.9	12.8	12		
Color (PCU units)					ND				30				20				40					30		60		20		35		50		20		15		50		ND		
Nitrate-Nitrite		<DL	<DL	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	0.217	ND	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	1.79	1.17	1.8		
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	0.0074	0.009	ND		
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	5.52	7.27	7.2		
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	3.1	2.4	4.2		
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	320	309	322		
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	262	222	241		
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		2.19		3.1		
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	36	8.9	140		
Cyanide					ND				ND				ND				ND						ND		ND		ND		ND		ND		ND		ND		ND		ND	

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PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
Acetone				ND	ND	ND	2.8	14	ND	2	ND	1.2	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.73	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	ND	ND	ND	ND	ND	ND	ND	0.00	5.0
Benzene	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	ND	ND	ND	ND	1.7	1.5	1.84	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	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	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	ND	ND	ND	ND	ND	0.00	50.0	
Bromoforn	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00	5.0	
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	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	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	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	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	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	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	ND	ND	ND	0.00	5.0	
Chlorobenzene	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	1.7	ND	ND	1.2	0.93	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	1.5	1.0	0.80	5.0		
Chloroethane	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	0.67	ND	ND	0.75	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	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	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	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	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	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	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	0.00	3.0	
1,4-Dichlorobenzene	ND	0.53	0.57	ND	ND	ND	0.31	0.3	ND	0.34	ND	ND	ND	0.41	ND	ND	ND	0.53	ND	ND	0.37	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	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	ND	ND	ND	ND	ND	0.00	5.0		
Dichlorodifluoromethane	ND	1.3	0.95	0.58	0.85	ND	0.85	0.64	ND	ND	0.33	0.42	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	ND	ND	ND	ND	ND	ND	0.85	5.0		
1,1-Dichloroethane	17.6	18	16	21	18	19	17	19	12	18	13	11	14	18	14	12	12	13	21	11	15	11	11	16	11.5	18.1	15.5	14.2	11.6	13.0	12.1	17.83	5.0					
1,2-Dichloroethane	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	0.11	0.6														
1,1-Dichloroethene	ND	ND	0.4	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	ND	ND	ND	ND	ND	ND	0.03	5.0		
cis-1,2-Dichloroethene	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	38.2	54.9	33.6	46.6	38.2	27.58	5.0		
trans-1,2-Dichloroethene	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	0.64	1.1	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	0.59	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	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	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	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	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	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	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	ND	ND	0.52	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	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	0.03	5.0		
Methylene chloride	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	ND	ND	ND	ND	ND	0.25	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	ND	ND	ND	ND	ND	0.00			
Naphthalene	ND	ND																																				

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	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum		3.4		ND		ND		ND	ND		ND			ND	ND			ND	0.03	0	-	ND	ND	-	ND	ND	0.03	ND	-	0.068	ND	-	-	-	0.78			
Calcium	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	76.6	88.8	78.8	79.7	78.9	66.55			
Iron	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	0.865	1.9	1.45	0.335	2.26	6.01	0.3		
Magnesium	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	23.8	28	24.6	25.4	24.8	21.69	35.0		
Manganese	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	5.59	8.69	7.21	7.26	9.9	8.93	0.3		
Potassium	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	2.41	ND	2.51	2.79	1.72	2.77			
Sodium	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	9.64	8.7	9.08	9.82	8.57	9.44	20.0		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
Antimony		ND		ND		ND		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			0.013	ND			ND	0.005	-	-	ND	0.005	-	ND	ND	ND	0.012	-	ND	0.007	-	-	-	0.01	0.025		
Barium		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	-	0.066	0.071	-	-	-	0.07	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	ND	ND	ND	ND	0.00	0.005
Chromium (Total)		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.01	0.05	
Copper		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.2	
Lead	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	ND	ND	ND	ND	ND	0.0032	0.01	0.025	
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	6E-05	-	1E-04	ND	-	-	-	0.00	0.0007		
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.005	-	-	0.005	0.005	-	ND	ND	0.004	0.004	-	0.004	0.005	-	-	-	-	0.02	0.1	
Selenium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	ND	0.006	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.0	
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	0.001	-	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	0.005	-	0.0066	0.0086	-	-	-	-	0.00	0.0005	
Zinc		ND		ND		ND		ND	0.01		ND			0.01	0.014			ND	0.004	-	-	0.014	ND	-	ND	ND	0.004	0.007	-	0.009	ND	-	-	-	-	0.01	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	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	307	324	302	347	327	286.5			
Biochemical Oxygen Demand		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	7	2.8	1.7	1.2	2.1	3.8			
Boron		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	-	0.047	0.046	-	-	-	0.0	1.0		
Chemical Oxygen Demand	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	29.8	16.8	21.2	20.9	39.9	15.9			
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	0.003	-	-	ND	ND	-	-	-	-	-	0.0	0.05	
Chloride	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	10.9	7.1	8.5	5.6	8.1	15.3	250		
Color (PCU units)		100		15		5		40	ND		10			0	12.5			5	39	-	-	8	22	-	ND	15	10	-	-	5	ND	-	-	-	16.8	15		
Nitrate-Nitrite	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	ND	ND	ND	ND	0.49	0.3	10		
Nitrogen-Ammonia	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	0.32	0.9	0.83	0.51	1.10	1.1	2.0		
Phenols	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	0.0110	0.0018	0.0040	ND	ND	0.0	0.001		
Sulfate	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	6.1	5.2	7.0	4.7	5.1	6.4	250		
Total Organic Carbon (TOC)	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	2.9	2.7	2.0	4.8	3.8	4.9			
Total Dissolved Solids (TDS)	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	308	306	326	318	345	312.8	500		
Total Hardness	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	227	280	260	340	227	266.1			
Total Kjeldahl Nitrogen (TKN)		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	0.53	1.10	1.40	1.40	1.60	1.5			
Turbidity (NTU units)	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	2.40	1.50	2.86	0.70	3.10	106.4	5.0		
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	ND	ND	-	-	-	-	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
 \* = Applies to the sum of cis and trans-1,3-dichloropropene.  
 \*\* = Guidance Value.  
 ND values are included in calculation of Mean and are considered equal to zero.  
 (Blank) or "-" = Not Analyzed.  
 ND = Not Detected.  
 J = Estimated.  
 B = Analyte was detected in method blank.  
 <DL = Detected below method detection limit.



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	9/02	3/03	9/03				
<b>PARAMETER METALS (mg/L)</b>																																										
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								31.5		19.7											36.7		40.8			
Iron	26.9	11.7	26.5		25.1	13.1	18.2			13.1				22.7	12.7	39.3								47.6		17.2										26.5		19.3		28.1		
Magnesium	7.6	4.5	8.1		14.8	4	9.8			4.61				9.5	3.87	8.09								6.5		7.93										9.34		14	15.9			
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									11.9		10.8		11.2			
Potassium	3.3	1.1	4		4.1	1.6	3.1			3.46				4.04	2.04	9.5								3.2		4.62										3.19		3.08	4.1			
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										3.99		7.24	8.7			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																										
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		0.003		
Mercury	ND				ND																																					
Nickel	0.62				0.05																																					
Selenium	0.021	ND	0.077		ND	ND	ND			ND				0.007	ND	ND								ND		ND										ND		ND		ND		
Silver	ND				ND																																					
Thallium	ND				ND																																					
Zinc	0.04				0.12																																					
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																										
Alkalinity	95	95	117			84.0	135.0			44.4				128	45.4																											
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												ND										48.4		33.2	28.8	298	
Chromium (Hexavalent)	<DL				ND																																					
Chloride	<DL	6	7			ND	4.0			ND				10.1	ND																											
Color (PCU units)	55.0																																									
Nitrate-Nitrite	<DL	<DL	<DL		ND	ND	ND			1.3				0.338	ND												ND											ND		0.176	ND	0.04
Nitrogen-Ammonia	1.0	<DL	<DL		1.6	0.6	2.2			0.4				1.01	ND											0.390											0.56		4.12	3.55	0.8	
Phenols	0.002	ND	<DL			ND	ND			0.010				0.019	0.013												ND										0.0138		0.0225	0.0157		
Sulfate	11	16.3	19.9			21.0	12.0			12.0				8.7	8																											
Total Organic Carbon (TOC)	8	8	5		10.0	3.0	6.0			5.0				6.7	5.4																											
Total Dissolved Solids (TDS)	132.0	110	118			139	153.0			60.0				183	85																											
Total Hardness	89.5	60.7	96			51.0	104.0			54.0				187	99																											
Total Kjeldahl Nitrogen (TKN)	1.9				2.1																																					
Turbidity (NTU units)	55	243	182			32.0	94.0			76.0				100	500																											
Cyanide	<DL																																									

MW-11B  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD
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	ND	ND	ND	ND	-	2.79	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	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	ND	ND	ND	3.8	-	1.87	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	-	-	-	-	-	-	-	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	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	-	0.00	50.0
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	-	0.00	5.0
2-Butanone				ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	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	-	-	-	-	-	-	-	0.00	5.0
sec-Butylbenzene	ND	ND	ND	ND	ND	0.28	ND	ND	0.32	ND			ND	ND	ND	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	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	-
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	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	ND	5.8	ND	11	-	1.62	5.0
Chloroethane	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	ND	ND	ND	ND	-	0.46	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	-	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	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	-	-	-	-	-	-	-	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	-	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	-	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	-	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	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	ND	ND	ND	1.4	-	0.18	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	-	-	-	-	0.00	3.0
1,4-Dichlorobenzene	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	ND	ND	ND	2.4	-	0.34	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	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	ND	ND	ND	-	8.6	-	-	-	-	-	0.41	5.0	
1,1-Dichloroethane	1.5	5.4	1.2	2.9	5.9	5.3	3.1	0.97	1	1			4	1.5	16	0.41	0.97		1.1	ND	15	0.57	0.67	ND	ND	ND	ND	-	8.4	ND	7.7	ND	6.9	-	3.47	5.0
1,2-Dichloroethane	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	ND	ND	ND	ND	-	0.06	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	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	ND	14.7	5.2	16.8	-	6.53	5.0
trans-1,2-Dichloroethene	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	ND	ND	ND	ND	-	1.00	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	-	ND	-	-	-	-	-	0.00	5.0
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	-	-	-	-	0.00	5.0
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	-	-	-	-	0.00	5.0
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	-	0.00	0.4
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	1.1	-	0.02	0.4
Ethylbenzene	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	ND	ND	ND	ND	-	0.23	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	-	-	-	-	-	-	-	0.00	0.5
Iodomethane				ND	ND	ND	ND	ND	ND	ND																										

MW-11B  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD
<b>PARAMETER METALS (mg/L)</b>																																				
Aluminum		3.2				ND			ND						ND				0.06	0	-	0.07	-	-	-	-	0.0369	-	-	-	0.181	-	-	-	0.50	
Calcium	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	-	64	-	54.8	-	26.01	
Iron	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	-	36.8	-	21.8	-	15.23	0.3
Magnesium	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	-	23.6	-	22.6	-	9.29	35.0
Manganese	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	-	19.6	-	16.1	-	8.22	0.3
Potassium	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	-	4.56	-	3.94	-	2.44	
Sodium	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	-	9.31	-	10.3	-	4.00	20.0
<b>PARAMETER (mg/l) TOXIC METALS</b>																																				
Antimony		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	-	-	0.00	0.003
Arsenic		0.022				0.016			0.021						ND				0.01	-	-	0.014	-	-	-	-	0.0069	-	-	-	0.0526	-	-	-	0.01	0.025
Barium		0.37				0.4			0.18						0.48				0.206	-	-	0.149	-	-	-	-	0.158	-	-	-	0.557	-	-	-	0.15	1.0
Beryllium		ND				ND			ND						ND				0.0003	-	-	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	-	0.00	0.005
Chromium (Total)		0.013				ND			ND						ND				0.002	-	-	0.003	-	-	-	-	0.003	-	-	-	ND	-	-	-	0.00	0.05
Copper		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	-	-	0.00	0.2
Lead	ND	ND	ND		ND	ND	ND		ND						0.006	ND	0.001		0.001	ND	ND	ND	-	ND	-	-	0.0017	-	0.0034	-	0.0043	-	0.0031	-	0.00	0.025
Mercury		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	-	-	0.00	0.0007
Nickel		0.025				ND			ND						ND				0.013	-	-	0.013	-	-	-	-	0.0106	-	-	-	0.017	-	-	-	0.03	0.1
Selenium	ND	ND	ND		ND	ND	ND		ND						ND				0.007	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	-	-	0.00	0.0
Silver		ND				ND			ND						ND				ND	-	-	0.001	-	-	-	-	ND	-	-	-	0.0026	-	-	-	0.00	0.05
Thallium		ND				ND			ND						ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.017	-	-	-	0.00	0.0005
Zinc		0.022				0.027			0.065						0.02				0.035	-	-	0.046	-	-	-	-	0.977	-	-	-	2.76	-	-	-	0.19	2.0
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																				
Alkalinity	90	175	67.1		229	218	150		62.5						374		210		-	-	299	-	-	80.8	-	-	179	-	264	-	324	-	340	-	115.9	
Biochemical Oxygen Demand		ND				4.9			4.5						12.2		11		-	-	-	-	-	4.1	-	-	9.6	-	7.6	ND	3.7	-	6.1	-	3.8	
Boron		0.066				0.091			0.024						0.1				ND	-	-	-	-	-	-	-	0.0125	-	-	-	0.0775	-	-	-	0.0	1.0
Chemical Oxygen Demand	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	-	38.9	-	48.4	-	28.5
Chromium (Hexavalent)		ND				ND			ND						ND				ND	-	-	-	-	-	-	-	ND	-	-	-	ND	-	-	-	0.0	0.05
Chloride	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	48.8	12.8	-	10.6	-	6.0	250
Color (PCU units)		60				80			60						200				-	-	-	-	-	-	-	-	10	-	-	-	150	-	-	-	29.3	15
Nitrate-Nitrite	ND	ND	ND		ND	ND	ND		ND						ND		ND		ND	-	-	ND	-	-	ND	-	ND	0.046	-	ND	-	ND	-	0.065	-	0.0
Nitrogen-Ammonia	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	-	4.4	-	4.1	-	1.2
Phenols	ND	0.028	ND		0.01	0.01	ND		ND				ND		ND				ND	-	-	0.0073	-	-	ND	-	0.0099	-	0.0172	-	0.0105	-	ND	-	0.0	
Sulfate	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	2.5	ND	-	2.7	-	5.3	
Total Organic Carbon (TOC)	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	5	8.7	8.4	7.4	-	7.2
Total Dissolved Solids (TDS)	125	283	99		304	402	174		190						388		280		115	-	-	320	-	-	96	-	170	-	315	87	354	-	323	-	149.3	
Total Hardness	81	182	85.9		229	236	137		99.3						310	58.6	180		70.6	57.1	227	-	-	68.5	-	-	290	-	250	-	250	-	180	-	103.9	
Total Kjeldahl Nitrogen (TKN)		4.3				3.9			1.1						2.2		2.09		0.85	-	-	-	-	-	-	-	1.1	3.8	-	5.7	-	5.3	-	8.3	-	
Turbidity (NTU units)	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	32.5	27.5	-	5.7	-	57.4
Cyanide		ND				ND			ND						ND				-	-	-	-	-	-	-	-	ND	-	-	-	0.002	-	-	-	0.0	

(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.  
B = Analyte was detected in method blank.  
<DL = Detected below method detection limit.





MW-12A  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
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	7.6	ND	-	2.8	-	11.17	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	2.6	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	5.2	ND	-	5.4	-	3.82	1.0	
Bromobenzene	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	50.0
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	0.00	50.0
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	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	ND	-	ND	-	-	-	0.26	50.0
n-Butylbenzene	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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	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	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	-	-	-	0.00	5.0
Chlorobenzene	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	8.1	ND	-	7.8	-	2.41	5.0	
Chloroethane	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	ND	-	ND	-	-	-	0.57	5.0
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	0.03	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	-	-	-	0.15	5.0
2-Chlorotoluene	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	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00	5.0
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	0.00	50.0
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	0.00	0.04
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	0.00	5.0
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	ND	-	-	-	0.00	5.0
1,2-Dichlorobenzene	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	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	ND	ND	-	ND	-	-	-	0.07	3.0
1,4-Dichlorobenzene	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	ND	ND	-	3.5	-	1.74	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	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	-	-	-	-	-	-	0.58	5.0	
1,1-Dichloroethane	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	ND	-	ND	-	-	-	1.08	5.0
1,2-Dichloroethane	ND	ND	ND	ND	0.37	ND	ND	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	ND	ND	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	3.3	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	ND	ND	-	2.4	-	3.09	5.0	
trans-1,2-Dichloroethene	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	ND	-	ND	-	-	-	0.33	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	-	-	-	-	-	-	-	0.00	5.0
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	ND	-	-	-	-	-	-	-	0.00	5.0
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	-	-	-	-	ND	-	-	-	-	-	-	-	0.00	5.0
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND	-	ND	ND	-	ND	-	-	ND	ND	ND	ND	-	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	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	ND	-	ND	-	-	-	0.70	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	-	-	-	-	-	-	-	-	-	-	-	-	-	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	-	-			

MW-12A  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	0.016	-	-	-	ND	-	-	-	0.14			
Calcium	114	108	94.8	88	114	91	89.2		106					109	72.9			80.1	-	90.3	102	-	77.9	-	-	112	-	118	-	96.1	-	102	-	79.03			
Iron	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	-	35.1	-	33.1	-	23.47	0.3		
Magnesium	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	-	14.1	-	13	-	10.26	35.0		
Manganese	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	-	14.5	-	12.3	-	8.24	0.3		
Potassium	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	-	4.39	-	4.22	-	2.90			
Sodium	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	-	6.56	-	6.66	-	8.54	20.0		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	-	-	0.00	0.003		
Arsenic		0.06		0.07		0.06			0.03					0.047				0.042	-	-	0.068	-	-	-	-	0.056	-	-	-	0.0263	-	-	-	0.02	0.025		
Barium		2	1.8	1.9	1.7	2.2			1.9					1.9				1.77	-	-	1.59	-	-	-	-	1.78	-	-	-	1.64	-	-	-	1.21	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	-	-	6E-04	-	ND	-	ND	-	ND	-	0.00	0.005		
Chromium (Total)	ND	ND		ND		ND			ND					ND				0.003	-	-	0.003	-	-	-	-	0.022	-	-	-	ND	-	-	-	0.00	0.05		
Copper		ND		ND		ND			ND					ND				ND	-	ND	ND	-	ND	-	-	0.004	-	-	-	ND	-	-	-	0.00	0.2		
Lead	ND	ND	ND	ND	ND	ND	ND		ND					ND	ND			0.001	-	ND	ND	-	ND	-	-	0.003	-	0.003	-	0.003	-	ND	-	0.00	0.025		
Mercury		ND		ND		ND			ND					ND				ND	-	ND	ND	-	ND	-	-	ND	-	-	-	ND	-	-	-	0.00	0.0007		
Nickel		ND		ND		ND			ND					ND				0.007	-	-	0.003	-	-	-	-	0.006	-	-	-	0.004	-	-	-	0.03	0.1		
Selenium	ND	ND	ND	ND	ND	ND	ND		ND					ND				0.009	-	-	0.004	-	-	-	-	ND	-	-	-	ND	-	-	-	0.00	0.0		
Silver	ND	ND	ND	ND	ND	ND	ND		ND					ND				0.003	-	-	0.003	-	-	-	-	ND	-	-	-	0.002	-	-	-	0.00	0.05		
Thallium		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	0.011	-	-	-	0.00	0.0005		
Zinc		ND		ND		ND			0.2					0.012				0.004	-	-	0.01	-	-	-	-	0.024	-	-	-	ND	-	-	-	0.02	2.0		
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity	350	42.9	211	430	407	242	206		191				185		467	252	320		349	-	377	-	-	-	315	-	-	-	380	-	-	-	339	-	400	-	266.4
Biochemical Oxygen Demand		15.9		4.7		8.9			4.5					8.6		16			-	-	-	-	-	-	7.9	-	-	-	9.6	-	8.1	14.4	4.5	-	5.2	-	7.4
Boron		0.09		0.09		0.12			0.1					0.11					0.11	-	-	0.07	-	-	-	-	0.118	-	-	-	0.079	-	-	-	0.0	1.0	
Chemical Oxygen Demand	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	-	49.9	-	50.5	-	28.5		
Chromium (Hexavalent)		ND		ND		ND			ND					ND				ND	-	-	ND	-	-	-	-	ND	-	-	-	ND	-	-	-	0.0	0.05		
Chloride	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	7.1	4.6	-	4.1	-	6.6	250	
Color (PCU units)		140		140		200			120					200					-	-	-	-	-	-	-	25	-	-	-	200	-	-	-	49.0	15		
Nitrate-Nitrite	ND	ND	ND	0.07	ND	ND	ND		ND					ND	ND	ND			ND	-	ND	ND	-	ND	-	-	0.065	-	0.097	-	ND	-	0.075	-	0.5	10	
Nitrogen-Ammonia	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	-	6.0	-	6.1	-	2.9	2.0	
Phenols	ND	0.02	ND	ND	ND	ND	0.01		ND				ND	ND	0.014	ND			0.015	-	-	-	-	0.036	-	-	0.042	-	0.0253	-	0.0136	-	ND	-	0.0	0.001	
Sulfate	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	7.4	ND	-	1.6	-	2.4	250	
Total Organic Carbon (TOC)	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	11.7	9.7	-	6.8	-	9.0		
Total Dissolved Solids (TDS)	402	330	345	413	446	484	378		390					449	344	440			395	-	375	392	-	349	-	-	426	-	436	394	340	-	363	-	322.4	500	
Total Hardness	341	319	288	268	343	277	274		328					345	228				255	-	286	314	-	259	-	-	340	-	410	-	300	-	300	-	246.2		
Total Kjeldahl Nitrogen (TKN)		5		6.3		6.5			5.2					2.4		3.52			7.11	-	-	6.91	-	-	-	-	8.2	-	8.9	-	6.5	-	10.3	-	3.5		
Turbidity (NTU units)	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	154	22.4	-	9.7	-	80.5	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.  
J = Estimated.  
<DL = Detected below method detection limit. B = Analyte was detected in method blank.

MW-12B  
 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/02	3/03	9/03					
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	13	13	17.9				
Bromobenzene	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND																														
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND																													
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND																													
Bromoform	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND																													
Bromomethane	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	ND	ND	ND	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	ND	0.61	0.7				
tert-Butylbenzene	ND	34.1	ND	ND	ND	ND	ND		ND		ND	ND	1.2																														
Carbon disulfide																																											
Carbon tetrachloride	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	17	8	18	9	10			17.2	11	13	17.1					
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	1.8	2.3									
Chloroform	ND	1.33	ND	ND	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																	
2-Chlorotoluene	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																													
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND																												
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	6.0	ND		ND		ND	ND	ND	ND																													
1,2-Dibromoethane	ND	ND	ND	ND	ND	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																
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	0.65	0.67	ND	ND			
1,3-Dichlorobenzene	ND	0.21	ND	ND	ND	ND	ND		ND		3.0		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	3.6	5.1	6.3				
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	0.5	ND	ND	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	9.1	4.5	5.1				
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	1.5	ND	ND	ND			
1,1-Dichloroethene	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	3.3	2.3	2.4				
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	ND	ND	ND	ND	ND		
1,2-Dichloropropane	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																													
2,2-Dichloropropane	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																													
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	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	6.3	21	ND				
2-Hexanone																																											
Hexachlorobutadiene	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	1	1.9	2.3				
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	0.57	ND	1.4				
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																	
4-Methyl-2-pentanone																																											
Naphthalene	6.13	5.53	5.4																																								

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	9/02	3/03	9/03					
<b>PARAMETER METALS (mg/L)</b>																																											
Aluminum	1.7				0.1				0.61				5.07				6.38					2.34			0.248		0.2		ND		ND		ND					0.1		0.18			
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	126	95.7	96.1				
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	26.8	29.3	24.6				
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	24.7	19.6	17.8				
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	13.2	11.4	10.8				
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	7.87	6.84	8				
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	22.3	16.5	16.1				
<b>PARAMETER (mg/l) TOXIC METALS</b>																																											
Antimony	ND				ND				0.05				ND				ND							0.055		ND		ND		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		ND		
Barium	0.53				0.36				0.8				0.66				0.15						0.73		0.581		0.73		0.58		0.43		0.5						0.56		0.52		
Beryllium					ND				ND				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	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							ND		ND	
Copper	ND				ND				ND				0.01				0.02						0.02				ND		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	0	ND	0.01	0		0	0	0	0.003	ND			
Mercury	ND				ND				ND				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						0.05		ND		
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														
Silver	ND				ND				ND				0.02				ND						0.01		ND		ND		ND		ND		ND		ND					ND		ND	
Thallium	ND				ND				ND				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						0.04		ND		
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																											
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	469	363	480					
Biochemical Oxygen Demand	45				6.0	ND			24.0				11				13							29		26				10								8		9			
Boron	0.11				0.21	ND			0.25				0.02				ND						0.29		0.249		0.28		0.24		0.23		0.18					0.18		0.11			
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	80.2	54.1	45					
Chromium (Hexavalent)	<DL				ND				ND				ND				ND							0.010		ND		ND		0								ND		ND			
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	45.5	23.8	ND					
Color (PCU units)	51				ND				250				400				175										120				450							500		30			
Nitrate-Nitrite	<DL	<DL	<DL	ND	ND	ND	ND	ND	1.99	1.2	0.23	ND	ND	0.18	ND	ND	0.1	ND	0.110	ND	ND	ND			ND	ND	ND		ND	ND	ND	1.28	ND				ND	0.72	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	14.2	14	12.2					
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	0.06	0.0661	0.002					
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	ND	ND	2.2					
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	15.1	11	14					
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	560	500	445					
Total Hardness	277	427	721	415	336	386	134.0	422	376	404	361	386	521	336	554	320	589	290	326	352	446	408	386		366	398	351		347	301	385	377	359		349	416	320	313					
Total Kjeldahl Nitrogen (TKN)	11.2				15.8				21.9				22				30						19.5		24.3		12.8				17.5							16.2		14			
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	200	42	100					
Cyanide	<DL				ND				ND				ND				ND							ND		ND		ND		ND		ND								ND			

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PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
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	ND	ND	ND	ND	ND	1.77	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	ND	ND	ND	ND	ND	ND	0.00	5.0
Benzene	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	5.8	6.0	ND	6.2	ND	12.76	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	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	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	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	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	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	ND	ND	ND	ND	ND	0.10	50.0	
n-Butylbenzene	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	5.0	
sec-Butylbenzene	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11	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	ND	ND	ND	ND	ND	ND	ND	ND	0.56	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	ND	ND	ND	ND	ND	0.03	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	ND	ND	0.00	5.0	
Chlorobenzene	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	7.0	5.8	6.9	9.3	6.1	10.31	5.0	
Chloroethane	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	ND	ND	ND	ND	ND	1.32	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	ND	ND	ND	ND	0.03	7.0	
Chloromethane	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	0.24	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	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	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	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	ND	ND	ND	ND	0.14	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	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	ND	ND	0.03	5.0	
1,2-Dichlorobenzene	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	0.45	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81	3.0	
1,3-Dichlorobenzene	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	3.0	
1,4-Dichlorobenzene	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	ND	ND	3.6	ND	3.07	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	ND	ND	ND	ND	ND	0.00	5.0	
Dichlorodifluoromethane	ND	1.2	1.2	1	1.4	ND	0.96	1.3	ND	0.81	0.76	1.3	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.7	ND	ND	ND	ND	ND	0.71	5.0		
1,1-Dichloroethane	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	5.5	6.8	4.1	ND	ND	4.7	9.1	ND	ND	8.1	ND	5.1	4.3	ND	5.4	2.7	6.8	5.81	5.0			
1,2-Dichloroethane	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	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.25	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	ND	ND	0.00	5.0	
cis-1,2-Dichloroethene	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	ND	ND	ND	ND	1.9	ND	3.67	5.0	
trans-1,2-Dichloroethene	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	0.35	ND	ND	ND	ND	ND	ND	ND	ND	0.53	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	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	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	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	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	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	ND	ND	0.00	0.4	
Ethylbenzene	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	1.6	ND	ND	1.2	ND	12.63	5.0			

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PARAMETER METALS (mg/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
Aluminum		0.21		ND		ND		ND	ND		ND			ND	ND			0.053	0.001	-	-	ND	ND	-	ND	ND	0.0157	0.0282	-	0.096	ND	-	-	-	0.44			
Calcium	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	127	124	126	115	130	112.71			
Iron	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	11	13.8	18.1	16.3	14.5	30.16	0.3		
Magnesium	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	22.0	23.8	23.6	25.5	22.0	26.8	22.41	35.0		
Manganese	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	9.54	10.2	10.3	10.1	9.89	12.98	0.3		
Potassium	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	5.52	4.46	6.73	4.89	4.94	7.80			
Sodium	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	15.0	12.6	14.8	12.2	14.3	20.67	20.0		
PARAMETER (mg/l) TOXIC METALS																																						
Antimony		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	0.00	0.003							
Arsenic		0.01		ND		0.01		0.012	0.01		0.013			0.012	0.011			ND	0.007	-	-	0.013	0.014	-	ND	ND	0.0108	0.0095	-	0.0085	0.0164	-	-	-	0.01	0.025		
Barium		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	-	0.325	0.293	-	-	-	0.38	1.0		
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	0.00	0.005							
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	ND	ND	ND	ND	0.00	0.005
Chromium (Total)		0.01		ND		0.01		ND	ND		ND			ND	ND			ND	0.001	-	-	0.0009	ND	-	0.0175	ND	0.006	0.0069	-	0.0107	ND	-	-	-	0.01	0.05		
Copper		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	0.00	0.2							
Lead	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	0.0016	ND	ND	ND	0.003	0.00	0.025		
Mercury		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	6E-05	-	0.0001	ND	-	-	-	0.00	0.0007	
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.004	-	ND	ND	0.0058	0.0063	-	0.0046	0.0176	-	-	-	0.03	0.1		
Selenium	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	-	ND	ND	-	-	-	0.00	0.0		
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.001	0.002	-	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00	0.05		
Thallium		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0127	ND	ND	0.0044	-	ND	ND	-	-	-	0.00	0.0005		
Zinc		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	-	0.0045	0.0054	-	-	-	0.02	2.0		
PARAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity	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	496	478	468	455	508	466.4			
Biochemical Oxygen Demand		ND		6.3		3.5		6.3	4.7		11.9			ND	5		11	7	10.1	-	-	11.1	6.7	3.7	9.0	ND	9.9	6.0	13	7.6	3.9	8.1	3.3	9.0	8.7			
Boron		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	-	0.125	0.0919	-	-	-	0.1	1.0		
Chemical Oxygen Demand	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	74.7	34.5	58.7	54.7	46.3	72.2			
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	-	-	-	0.0061	ND	-	-	-	0.0	0.05		
Chloride	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	10.8	8.0	13.7	7.2	10.9	30.0	250		
Color (PCU units)		120		60		160		300	80		30			0	320			5	280	-	-	340	90	-	20	5	15	-	-	75	100	-	-	-	127.1	15		
Nitrate-Nitrite	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	0.052	ND	0.12	0.05	0.079	0.2	10		
Nitrogen-Ammonia	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	2.2	4.9	8.6	6.2	9.9	11.8	2.0		
Phenols	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	0.049	0.0351	0.004	0.0027	ND	0.0	0.001		
Sulfate	2.2	ND	2.2	ND	2.6	ND	ND	2.1	ND	ND	ND	ND	2.32	ND	ND	ND	ND	ND	ND	2.9	ND	3.2	3	ND	ND	2.6	1.3	1.9	2.5	ND	ND	1.5	1.7	2.1	250			
Total Organic Carbon (TOC)	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	9.0	8.9	9.7	8.3	7.6	26.9			
Total Dissolved Solids (TDS)	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	458	602	466	432	503	503.2	500		
Total Hardness	361	328	390	390	372	346	376	410	376	394	410	420	390	430	389	349		450	379	376	396	415	490	352	390	450	410	520	450	340	400	200	400	273	389.9			
Total Kjeldahl Nitrogen (TKN)		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	4.7	5.4	10.1	9.6	9.2	10.9		
Turbidity (NTU units)	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	16.2	8.6	31.17	5.7	16.2	100.9	5.0		
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	-	-	-	ND	ND	-	-	-	-	0.0	0.2	

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
\* = Applies to the sum of cis and trans-1,3-dichloropropene.  
\*\* = Guidance Value.  
ND values are included in calculation of Mean and are considered equal to zero.  
(Blank) or "-" = Not Analyzed.  
ND = Not Detected. J = Estimated.  
<DL = Detected below method detection limit. B = Analyte was detected in method blank.



MW-13  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02	9/02	3/03	9/03	
<b>PARAMETER METALS (mg/L)</b>																																							
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		5.93		2.52
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	52.3	32.5	45.1	
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	10.8	6.82	4.89	
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	13.8	9.53	10.9	
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	4.84	1.45	5.57	
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	2.68	2.61	1.97	
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	8.68	7.51	8	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																							
Antimony	ND				ND				0.03				ND				ND					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								
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		0.11		0.1
Beryllium					ND				ND				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										
Chromium (Total)	<DL				0.03				0.02				0.03				ND					0.66			ND		0.02		ND		0.02		ND		ND		0.02		ND
Copper	ND				0.02				ND				0.02				ND					0.03			ND		ND		ND		ND		ND		ND		ND		0.01
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	0.01	0.01	ND	
Mercury	ND				ND				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		0.04		ND
Selenium	0.01	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
Thallium	0.2				ND				ND				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		0.05		0.02
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																							
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	175	111	165	
Biochemical Oxygen Demand	<DL				ND	ND			7				14				10					9			12		22		9		ND								
Boron	ND				0.08	ND			ND				0.03				ND					0.07			0.087		0.08		0.09		0.09		0.09		0.07		0.09		0.06
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	33.6	ND	ND	
Chromium (Hexavalent)	<DL				ND				ND				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	11.2	8.78	8.4	
Color (PCU units)	9				ND				20				15				ND					25			30		20		300		1250		300		250		100		5
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	0.13	0.14	0.2	
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	0.14	ND	0.2	
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								
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	10.4	9.97	8.8	
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	2.8	1.7	5	
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	197	149	190	
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	187	120	157	
Total Kjeldahl Nitrogen (TKN)	0.9				1.1				2.19				3.36				ND					ND			3.10		ND		1.6		3.26		ND		1.18		ND		ND
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	140	53	190	
Cyanide	<DL				ND				ND				ND				ND					ND			ND		ND		ND		ND		ND		ND		ND		ND



MW-13  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum		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	-	0.0697	0.0679	-	-	-	2.18		
Calcium	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	38.0	47.0	31.7	14.1	33.4	39.5	36.6	44.3	38.4	44.0	46.8	43.9	42.7	50.3	38.9	42.2	37.6	60.7	44.15		
Iron	<b>1.26</b>	<b>12.8</b>	<b>0.74</b>	<b>0.33</b>	0.07	0.12	0.1	0.16	<b>0.36</b>	0.21	0.133	0.103	0.223	<b>0.409</b>	0.14	0.21	0.039	0.19	0.1	<b>0.34</b>	<b>1.0</b>	0.19	0.08	<b>0.42</b>	0.101	<b>0.459</b>	0.0907	0.106	<b>0.357</b>	<b>0.0952</b>	<b>0.617</b>	0.162	0.0895	0.0955	7.25	0.3	
Magnesium	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	11.0	13.0	9.6	5.3	10.6	10.3	10.6	11.3	9.95	11.9	13.0	11.9	12.1	13.8	11.4	11.9	11.1	13.5	11.57	35.0	
Manganese	<b>0.76</b>	<b>4.2</b>	<b>0.83</b>	<b>0.48</b>	0.1	<b>7.5</b>	<b>0.53</b>	<b>0.08</b>	<b>0.42</b>	0.24	0.167	0.08	0.28	<b>0.365</b>	<b>0.34</b>	<b>0.49</b>	0.12	<b>0.55</b>	0.219	<b>2.09</b>	<b>0.562</b>	0.145	0.294	0.136	<b>0.641</b>	<b>0.94</b>	0.171	0.0609	<b>1.12</b>	0.17	<b>1.29</b>	0.259	0.291	0.146	1.65	0.3	
Potassium	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	1.58	ND	ND	ND	ND	2.08		
Sodium	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	11.6	8.65	9.59	9.57	8.06	8.38	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	<b>0.0035</b>	ND	-	-	-	0.00	0.003	
Arsenic		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00	0.025	
Barium		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	-	0.0194	0.0239	-	-	-	0.05	1.0	
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	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	ND	ND	ND	0.00	0.005
Chromium (Total)		0.03		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0044	ND	-	-	-	0.02	0.05	
Copper		0.01		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00	0.2	
Lead	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	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	6E-05	-	ND	ND	-	-	-	0.00	0.0007	
Nickel		0.02		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	0.002	-	ND	ND	0.0021	0.0012	-	0.0017	0.0112	-	-	-	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		0.04		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	-	0.0295	0.0267	-	-	-	0.03	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity	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	53.6	162	156	161	215	161.1		
Biochemical Oxygen Demand		2.5		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	1.0	1.0	ND	ND	1.0	1.0	1.0	ND	2.2	
Boron		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	-	0.0734	0.0385	-	-	-	0.0	1.0	
Chemical Oxygen Demand	9	54.1	ND	12	ND	ND	12.9	ND	ND	ND	ND	ND	ND	ND	ND	11.4	ND	ND	6.0	ND	30.3	ND	9.7	9.7	-	ND	17.2	11.9	17.5	21.6	ND	ND	14.6	ND	23	15.5	
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	0.0059	-	-	ND	ND	-	-	-	-	0.0	0.05	
Chloride	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	6.0	5.7	5.3	4.4	6.3	5.3	-	4.82	4.0	6.3	4.4	5.1	4.0	4.3	3.2	4.1	4.0	8.5	250
Color (PCU units)		<b>200</b>		<b>25</b>		<b>15</b>		<b>60</b>	<b>18</b>		<b>5</b>			<b>60</b>	<b>80</b>			ND	12	-	-	14	<b>16</b>	-	10	5.0	5.0	-	-	10	5.0	-	-	-	73.4	15	
Nitrate-Nitrite	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	ND	0.066	0.067	ND	0.062	ND	0.073	0.04	0.048	0.1	10
Nitrogen-Ammonia	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	ND	0.084	ND	0.17	0.1	0.032	0.1	0.07	0.14	0.18	ND	ND	0.10	0.1	2.0
Phenols	<b>0</b>	<b>0.02</b>	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.012</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.247</b>	ND	<b>0.0099</b>	<b>0.0015</b>	<b>0.0016</b>	<b>0.0034</b>	<b>0.0043</b>	ND	<b>0.004</b>	ND	ND	0.0	0.001
Sulfate	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	4.7	3.4	4.1	2.9	4.3	12.2	250	
Total Organic Carbon (TOC)	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	2.2	543	2.21	3.5	ND	3.4	14.7	2.9	2.1	2.2	1.9	3.3	12.9	
Total Dissolved Solids (TDS)	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	181	222	173	157	268	198.8	500	
Total Hardness	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	113	140	133	140	200	162.2		
Total Kjeldahl Nitrogen (TKN)		1.9		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.29	0.21	-	ND	0.16	0.17	0.42	0.14	0.23	0.4	0.63	0.43	1.2	0.6		
Turbidity (NTU units)	<b>110</b>	<b>149</b>	<b>246</b>	<b>21.2</b>	<b>40.6</b>	<b>21</b>	<b>10.3</b>	<b>9.2</b>	4.6	<b>8</b>	<b>30</b>	1	<b>8</b>	<b>32</b>	<b>5</b>	<b>8.1</b>	<b>12.3</b>	<b>10.1</b>	<b>13</b>	<b>5.1</b>	<b>21.7</b>	<b>5.4</b>	<b>23</b>	<b>14.3</b>	<b>5.3</b>	<b>11.7</b>	<b>6.3</b>	<b>17.7</b>	<b>10.2</b>	<b>5.5</b>	<b>13</b>	<b>7.24</b>	1.0	<b>9.0</b>	78.5	5.0	
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	-	-	ND	ND	-	-	-	-	-	0.0	0.2

(Shade) = Analyte reported at or above New York State standards (amended March and June 1998). These standards were used beginning with the 9/98 sampling event. Exceedances noted prior to this event reflect prior standards.  
\* = Applies to the sum of cis and trans-1,3-dichloropropene.  
\*\* = Guidance Value.  
ND values are included in calculation of Mean and are considered equal to zero.  
(Blank) or "-" = Not Analyzed.  
ND = Not Detected. J = Estimated.  
<DL = Detected below method detection limit. B = Analyte was detected in method blank.



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 HISTORICAL ANALYTICAL RESULTS  
 ISCHUA LANDFILL  
 OLEAN, NEW YORK

	9/90	12/90	3/91	6/91	9/91	12/91	3/92	6/92	9/92	12/92	3/93	6/93	9/93	12/93	3/94	6/94	9/94	12/94	3/95	6/95	9/95	12/95	4/96	9/96	3/97	9/97	3/98	9/98	3/99	9/99	3/00	9/00	3/01	9/01	3/02	9/02	3/03	9/03		
<b>PARAMETER METALS (mg/L)</b>																																								
Aluminum	22				7.7				3.42				6.45			13.4					7.68			4.10			7.33		1.28		1.66		0.34		0.83		0.4		4.33	
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	35.5	40.3	96.8			
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	0.84	1.77	9.15		
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	10.3	12.4	14.4		
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	0.04	0.06	0.31		
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	3.2	3.71	4.33		
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	14.9	15.6	13.4		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																								
Antimony	0.01				ND				ND				ND				ND				ND			0.028		ND		ND		ND		ND		ND		ND		ND		ND
Arsenic	ND				ND				0.003				0.004				ND				0.01			0.004		ND		0		0		ND		ND		ND		0		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		0.12		0.3		0.3
Beryllium					ND				ND				ND				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	0.002	ND	0.01			ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	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	ND	0.01	0.02		
Copper	ND				0.01				ND				0.01				0.03				0.02			ND		0.02		ND		ND		ND		ND		ND		ND		0.01
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	0	0	ND		
Mercury					ND				ND				ND				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		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	ND	ND	ND	ND	
Silver					ND				ND				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		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		0.03		0.02		0.03
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																								
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				145	
Biochemical Oxygen Demand	8				ND				6				ND				ND				19			3		8		3											ND	
Boron	ND				0.04				ND				ND				ND				ND			ND		ND		0.06		ND		ND		ND		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	30.9	ND	14.3				ND		ND	21.4	ND	ND		15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium (Hexavalent)	<DL				ND				ND				ND				ND				ND			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				1.5		
Color (PCU units)	25				ND				20								5									30		250						75					5	
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				0.09		
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	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			ND		
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	ND	ND	ND			
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				305		
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				301		
Total Kjeldahl Nitrogen (TKN)	<DL				0.9				ND				2.42				1.39				ND			2.98		ND		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				74			
Cyanide	0.01				ND				ND				ND				ND				ND			ND		ND		ND		ND		ND		ND		ND		ND		ND



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ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum		1.1		ND		ND		0.24	ND		ND		ND	ND		ND		ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0766	ND	-	-	-	-	2.17		
Calcium	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	66.1	57.3	56.8	58.6	60.2	60.56		
Iron	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	0.0552	0.0298	0.0153	0.156	0.062	4.43	0.3	
Magnesium	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	15.0	13.0	14.3	15.9	14.0	14.0	13.8	14.4	17.13	35.0	
Manganese	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	0.183	0.0674	0.0602	0.0638	0.182	0.26	0.3	
Potassium	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	1.92	2.18	1.78	2.32	1.85	1.62	2.02	2.00	3.87			
Sodium	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	11.1	9.11	8.99	9.98	9.35	14.58	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony		ND		ND		ND		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	ND	-	ND	ND	-	-	-	-	0.00	0.025	
Barium		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	-	0.0405	0.0362	-	-	-	0.08	1.0	
Beryllium		ND		ND		ND		ND	ND		ND		ND	ND		ND		ND	0.0002	-	-	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	ND	ND	0.00	0.005
Chromium (Total)	ND	0.02	0.01	ND	ND	ND		0.006	ND	ND	ND	ND		ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0032	ND	-	-	-	0.02	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	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	ND	ND	ND	ND	ND	ND	0.00	0.025
Mercury	ND	ND		0.01		ND		ND	ND		ND		ND	ND		ND		ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	0.00015	-	-	-	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND		ND	ND		ND		ND	-	-	ND	ND	-	ND	ND	ND	0.0012	-	ND	0.009	-	-	-	-	0.01	0.1	
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND				ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.0
Silver	ND	ND		ND		ND		ND	ND		ND		ND	ND		ND		ND	-	-	ND	ND	-	ND	ND	ND	ND	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	ND	-	-	-	-	0.01	0.0005
Zinc		ND		ND		ND		0.015	0.016		0.01			0.015	ND				0.007	-	-	0.007	ND	-	ND	0.028	0.0016	0.0075	-	0.0051	ND	-	-	-	-	0.02	2.0
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
Alkalinity	34	146	139		355	ND	158		181			159	179		257	218	190	ND	210	205	216	216	205	210	187	-	243	282	207	232	213	204	209	211	197.4		
Biochemical Oxygen Demand		ND		ND		ND		0.03	0.03		0.027			0.033	0.031				ND	-	-	ND	ND	-	ND	ND	ND	1.0	1.0	ND	ND	1.0	1.0	1.0	1.0	17.7	2.4
Boron		ND		ND		ND		0.03	0.03		0.027			0.033	0.031				ND	-	-	ND	0.04	-	ND	ND	0.0215	0.0195	-	0.0225	0.0207	-	-	-	-	0.0	1.0
Chemical Oxygen Demand	13	92.1	ND	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	5.2	-	ND	13	24.6	17.5	27.7	ND	25.6	ND	50.5	6.8			
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND		ND	ND		ND		ND	ND	-	-	ND	ND	-	-	0.0086	-	-	ND	ND	-	-	-	-	0.0	0.05	
Chloride	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	2.3	2.2	2.4	1.5	2.0	2.2	250		
Color (PCU units)		120														ND		ND	7	-	-	13	14	-	5	20	10	-	-	5.0	5.0	-	-	-	22.6	15	
Nitrate-Nitrite	0.05	0.05	ND		ND	ND	ND				0.285		0.106	ND	ND	0.095		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.086	0.55	ND	ND	ND	0.093	0.043	0.072	0.3	10	
Nitrogen-Ammonia	ND	ND	0.13	ND	ND	ND	ND		ND		0.116		ND	ND	ND	ND	ND	ND	0.11	0.12	0.024	0.051	0.02	0.047	0.039	ND	ND	0.09	0.1	2.0							
Phenols		0.02	ND	ND	ND	ND	0.01	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0065	0.0043	0.0074	ND	0.004	ND	ND	0.0	0.001								
Sulfate	49	48.4	55.4		53.8	50.7	44.7				37.9	33.3	33.6	30.4	22	19	16.9	17	16.1	15.6	13.6	15.1	14.4	12.4	-	18.2	13.4	12.8	14.6	12.5	16.0	11.4	12.3	53.2	250		
Total Organic Carbon (TOC)	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	0.81	0.82	1.3	0.56	14.0	2.4		
Total Dissolved Solids (TDS)		259	215		229	278	232				255	245		238	215	350	240		215	223	229	228	211	231	209	-	249	225	202	216	224	209	228	255	279.5	500	
Total Hardness	205	195	236	191	127	217	153				210	180	200	224	202	160		161	187	200	209	175	206	132	200	240	190	190	187	160	193	220	167	227.9			
Total Kjeldahl Nitrogen (TKN)		1.8		ND		ND								ND	ND		ND	0.597	ND	-	-	ND	ND	-	ND	0.98	0.14	0.59	ND	ND	ND	ND	0.65	1.7	0.4		
Turbidity (NTU units)	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	5.5	8.1	8.84	4.5	23.04	123.2	5.0	
Cyanide		ND		ND		ND					ND		ND	0.16				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.

SEEP  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/02	3/03	9/03				
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		0.58	2			
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	<DL	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND		ND	ND		
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		
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	ND	ND		ND	ND		0.6		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		
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		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	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		0.58	1.9				
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		ND		ND	ND		
Chloroform	ND	2.06	<DL	ND		ND	ND		ND		ND		ND		ND		ND		ND				ND	ND	ND	ND	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		
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	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		ND		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND	ND		ND		ND		ND	ND		
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		
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		
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		
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		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		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		ND	ND				
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		ND	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		2.5	6.4				
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		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		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		3.1	10.6				
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		ND		0.6			
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	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		
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		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	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		ND		1.11		ND	ND		
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		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		ND	ND				
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		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		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		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		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		
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	ND	<DL	ND		ND	ND		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	9/02	3/03	9/03					
<b>PARAMETER METALS (mg/L)</b>																																											
Aluminum	ND								0.06					0.2			0.87							ND		0.23				0.09		ND								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		21.9	41.2			
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		79.6	10.8			
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		6.67	11.8			
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		4.28	7.93			
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		2.65	3.34			
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		3.89	5.93			
<b>PARAMETER (mg/l) TOXIC METALS</b>																																											
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										ND	
Barium	0.05								0.11					0.18			0.22							0.131		0.14			0.21		0.172											0.16	
Beryllium	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		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		0.005		ND			
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										ND	
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	ND					0.02			0.02								ND		0.02				0.03		ND									ND	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																											
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		85.7	180			
Biochemical Oxygen Demand	3								ND				ND				4								ND		ND			ND												4	
Boron	ND								ND				ND				ND								0.074		0.07			0.11		0.113										0.06	
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		11.5	9			
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		3.26	7.9			
Color (PCU units)	45								65.0				75				60								150		40			25		300									10		
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		0.21	ND				
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		1.47	2.8				
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		0.0052	0.002				
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		7.44	7.9				
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		2.8	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		126	208				
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		82.2	151				
Total Kjeldahl Nitrogen (TKN)	1.8								2.14				4.17				5.91								2.89		2.54			3.83		5.31								3.6			
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		4.7	15				
Cyanide	<DL								ND				ND				ND								ND		ND			ND											ND		



SEEP  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
<b>PARAMETER METALS (mg/L)</b>																																						
Aluminum		ND		ND		0.44		ND	ND		ND			ND	0.32			0.19	ND	-	-	ND	ND	-	ND	ND	0.101	0.056	-	0.0779	0.652	-	-	-	0.08			
Calcium	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	52.4	49	63.5	44.8	-	40.31			
Iron	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	14.3	21.9	32.9	14.9	-	17.14	0.3		
Magnesium	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	16.6	15.1	23.2	13.8	-	12.88	35.0		
Manganese	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	10.6	10.6	11.7	9.94	-	8.24	0.3		
Potassium	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	4.24	3.81	3.73	3.35	-	3.04			
Sodium	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	6.64	5.95	6.92	5.34	-	6.17	20.0		
<b>PARAMETER (mg/l) TOXIC METALS</b>																																						
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		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	-	0.0288	0.0261	-	-	-	0.01	0.025		
Barium		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	-	0.177	0.168	-	-	-	0.10	1.0		
Beryllium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.0003	-	-	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	ND	ND	ND	-	0.00	0.005
Chromium (Total)		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.001	-	-	0.001	0.002	-	ND	ND	0.0066	0.0036	-	0.0107	ND	-	-	-	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	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	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	0.0033	-	ND	ND	-	-	-	0.00	0.0007	
Nickel		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.004	-	-	0.004	0.004	-	ND	ND	0.0059	6E-05	-	0.0031	0.0145	-	-	-	0.01	0.1		
Selenium		ND		ND		ND		ND	ND		ND			ND	ND			ND	0.006	-	-	0.005	0.008	-	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00	0.01		
Silver		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.002	0.004	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.05	
Thallium		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	0.0141	ND	ND	0.0042	-	ND	ND	-	-	-	-	0.00	0.0005	
Zinc		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.0028	-	ND	0.0059	-	-	-	-	0.00	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																						
Alkalinity	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	231	221	260	216	-	175.3			
Biochemical Oxygen Demand		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	ND	6.2	2.1	4.2	-	2.3			
Boron		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	-	0.0852	0.0575	-	-	-	0.0	1.0		
Chemical Oxygen Demand	ND	17.1	11.4	16.2	23.3	23.4	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	44.1	32.2	85.2	37.8	-	16.1				
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	0.0099	-	-	ND	ND	-	-	-	-	0.0	0.05		
Chloride	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	4.7	4.2	7.2	3.4	-	8.1	250		
Color (PCU units)		10		100		80		50	50		25			30	80		5	110	-	-	-	34	38	-	5	10	10	-	-	125	100	-	-	-	48.0	15		
Nitrate-Nitrite	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	ND	0.11	ND	ND	ND	ND	ND	ND	0.061	-	0.2	10	
Nitrogen-Ammonia	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	3	2.9	2.4	2.7	-	2.4	2.0		
Phenols	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	0.0079	0.0105	0.004	ND	-	0.0	0.001		
Sulfate	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	5.6	4.7	5.6	3.3	-	9.9	250		
Total Organic Carbon (TOC)	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	5.4	6.0	7.5	4.8	-	5.8			
Total Dissolved Solids (TDS)	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	217	318	272	222	-	226.8	500		
Total Hardness	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	200	180	200	140	-	159.9			
Total Kjeldahl Nitrogen (TKN)		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	2.9	3.0	3.2	4.6	-	2.5		
Turbidity (NTU units)	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	17.7	12.3	278	1.5	-	33.6	5.0		
Cyanide		ND		ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	ND	ND	-	ND	ND	-	-	ND	0.002	-	-	-	-	-	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

PARAMETER VOLATILES (ug/L)	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	09/02	3/03	9/03				
Acetone																																										
Acrylonitrile																																										
Benzene	<DL	ND	<DL			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							
Bromochloromethane	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		ND	ND	ND		ND		ND		ND		ND							
Bromoform	ND	ND	ND			ND	ND		ND		ND				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							
2-Butanone																																										
n-Butylbenzene	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							
tert-Butylbenzene	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							
Chlorobenzene	ND	ND	<DL			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							
Chloroform	ND	ND	<DL			ND	ND		ND		ND				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							
2-Chlorotoluene	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							
Dibromochloromethane	ND	ND	ND			ND	ND		ND		ND				ND					ND			ND		ND	ND	ND		ND		ND		ND		ND							
1,2-Dibromo-3-chloropropane	ND	ND	ND			ND	ND		ND		ND				ND					ND			ND		ND	ND	ND		ND		ND		ND		ND							
1,2-Dibromoethane	ND	ND	ND			ND	ND		ND		ND				ND					ND			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							
1,2-Dichlorobenzene	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							
1,4-Dichlorobenzene	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							
1,1-Dichloroethane	ND	0.45	0.54			ND	ND		ND		1.0				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							
1,1-Dichloroethene	ND	ND	<DL			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							
trans-1,2-Dichloroethene	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							
1,3-Dichloropropane	ND	ND	0.10			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							
1,1-Dichloropropene	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							
trans-1,3-Dichloropropene	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							
2-Hexanone																																										
Hexachlorobutadiene	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							
p-Isopropyltoluene	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							
4-Methyl-2-pentanone																																										
Naphthalene	ND	ND	<DL			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							
Styrene	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							
1,1,2,2-Tetrachloroethane	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	</												

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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	09/02	3/03	9/03						
<b>PARAMETER METALS (mg/L)</b>																																												
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		8.01				
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		0.46				
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		2.12				
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		0.04				
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		1.86				
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		1.36				
<b>PARAMETER (mg/l) TOXIC METALS</b>																																												
Antimony	ND								0.03																																			
Arsenic	<DL								0.024																																			
Barium	ND								0.37																																			
Beryllium	ND								0																																			
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																																			
Copper	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		ND		ND		
Mercury	ND								ND																																			
Nickel	0.15								0.097																																			
Selenium	ND	ND				ND			ND																																			
Silver	ND								ND																																			
Thallium	<DL								ND																																			
Zinc	ND								0.13																																			
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																												
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		21.2			
Biochemical Oxygen Demand	4								ND																																			
Boron	ND								0.07																																			
Chemical Oxygen Demand	10.1	11	11.4			ND	ND		46	ND	8.7			ND	ND	ND											ND	ND	34.6	ND		10.6	ND	ND	10.7	ND		ND		ND		ND		
Chromium (Hexavalent)	ND								ND																																			
Chloride	ND								ND																																			
Color (PCU units)	19								50																																			
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		0.22				
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	1.02						0.06	0.1	0.03	0.51		ND	0.13	0.12	ND	0.3		0.29		ND				
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		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		6.41				
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		2.3				
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		62				
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		28.7				
Total Kjeldahl Nitrogen (TKN)	0.4								1.5																																			
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		8.8				
Cyanide	0.013								ND																																			



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PARAMETER METALS (mg/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD		
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	-	0.139	0.208	-	-	-	1.20			
Calcium	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	28.6	31.2	42	20.6	-	23.23			
Iron	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	0.224	0.34	0.079	0.09	-	2.63	0.3		
Magnesium	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	12.0	12.0	11.1	9.7	11.1	6.9	7.5	8.8	10.3	9.52	5.46	9.45	9.63	7.74	9.16	12.3	5.91	-	9.05	35		
Manganese	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	0.242	0.375	2.33	0.0273	-	1.27	0.3		
Potassium	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	2.45	2.49	2.2	2.13	-	1.75			
Sodium	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	3.0	ND	ND	3.18	3.52	3.61	2.29	2.89	3.89	2.33	-	2.68	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		ND		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	-	0.01	0.013	-	-	-	-	0.02	1.0	
Beryllium		ND		ND		ND		ND	ND		ND				ND			ND	4E-04	-	-	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	0.00	0.005														
Chromium (Total)		ND		ND		ND		ND	ND		ND				ND			ND	0.001	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0031	ND	-	-	-	-	0.00	0.05	
Copper		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	0.0046	ND	-	-	-	-	0.00	0.2	
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	0.001	ND	0.002	ND	0.001	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	7E-05	-	ND	ND	-	-	-	-	0.00	0.0007
Nickel		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	0.001	ND	-	0.0013	0.0059	-	-	-	-	0.01	0.1	
Selenium		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	0.003	-	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	ND	-	ND	ND	-	-	-	-	0.00	0.05	
Thallium		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	-	-	-	-	0.00	0.0005	
Zinc		ND		ND		ND		ND	ND		ND				ND			ND	0.005	-	-	ND	ND	-	ND	ND	ND	0.001	0.003	-	ND	0.0054	-	-	-	-	0.00	2.0
PARAMETER (mg/l) LEACHATE INDICATORS																																						
Alkalinity	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	103	109	145	79.9	-	83.2			
Biochemical Oxygen Demand		ND		ND		ND		ND	ND		ND				ND			ND	6	ND	-	-	ND	ND	-	ND	ND	ND	1.2	1.0	7.7	ND	1.0	1.8	1	-	0.7	
Boron		ND		0.06		ND		0.035	ND		0.069				ND			ND	0.07	-	-	ND	0.04	-	ND	ND	0.018	0.041	-	0.0288	0.0353	-	-	-	-	0.0	1.0	
Chemical Oxygen Demand	9	ND	ND	ND	ND	15.4	ND	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	0.0441	10.2	25.6	10.4	-	7.0			
Chromium (Hexavalent)		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	ND	ND	-	ND	ND	ND	0.007	-	-	ND	ND	-	-	-	-	0.0	0.05
Chloride	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	1.3	1.7	3.7	0.98	-	2.7	250		
Color (PCU units)		5		10		25		30	20		ND				80			5	12	-	-	34	105	-	15	10	15	-	-	30	5	-	-	-	-	18.1	15	
Nitrate-Nitrite	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	ND	ND	0.074	0.3	-	0.3	10		
Nitrogen-Ammonia	0.1	ND	0.13	ND	ND	0.13	ND	0.12	ND	ND	ND	0.28			ND	0.051	ND	ND	ND	0.1	0.084	0.028	0.058	0.15	0.044	ND	-	0.1	2.0									
Phenols	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	0.007	ND	0.006	0.009	0.002	0.006	0.0051	0.0089	ND	0.004	ND	-	0.0	0.001									
Sulfate	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	6.9	8.6	8.3	6.8	-	12.8	250		
Total Organic Carbon (TOC)	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	7.5	3.3	4.9	3.2	-	3.8			
Total Dissolved Solids (TDS)	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	113	153	168	101	-	117.1	500		
Total Hardness	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	80	90	140	90	-	83.4			
Total Kjeldahl Nitrogen (TKN)		ND		ND		ND		ND	ND		ND				ND			ND	ND	-	-	0.49	0.86	-	0.17	0.18	0.48	0.15	0.21	0.31	0.38	0.49	0.65	-	0.3			
Turbidity (NTU units)	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	1.3	19.7	1.25	0	-	17.1	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.  
 J = Estimated.  
 B = Analyte was detected in method blank.  
 <DL = Detected below method detection limit.



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	9/02	3/03	9/03						
<b>PARAMETER METALS (mg/L)</b>																																												
Aluminum																																												
Calcium																																												
Iron																																												
Magnesium																																												
Manganese																																												
Potassium																																												
Sodium																																												
<b>PARAMETER (mg/l) TOXIC METALS</b>																																												
Antimony																																												
Arsenic																																												
Barium																																												
Beryllium																																												
Cadmium																																												
Chromium (Total)																																												
Copper																																												
Lead																																												
Mercury																																												
Nickel																																												
Selenium																																												
Silver																																												
Thallium																																												
Zinc																																												
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																												
Alkalinity																																												
Biochemical Oxygen Demand																																												
Boron																																												
Chemical Oxygen Demand																																												
Chromium (Hexavalent)																																												
Chloride																																												
Color (PCU units)																																												
Nitrate-Nitrite																																												
Nitrogen-Ammonia																																												
Phenols																																												
Sulfate																																												
Total Organic Carbon (TOC)																																												
Total Dissolved Solids (TDS)																																												
Total Hardness																																												
Total Kjeldahl Nitrogen (TKN)																																												
Turbidity (NTU units)																																												
Cyanide																																												

DUPLICATE  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

PARAMETER VOLATILES (ug/L)	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
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	ND	ND	ND	ND	ND	0.65806	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	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	ND	ND	ND	1.5	ND	2.02419	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	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	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	ND	ND	ND	ND	ND	ND	0	50.0
Bromofom				ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01548	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04839	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	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	ND	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01806	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	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	ND	ND	ND	1.3	ND	2.44	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	ND	ND	ND	ND	ND	0.30516	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	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	ND	ND	ND	ND	ND	ND	0.01839	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	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	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	ND	ND	ND	ND	ND	ND	0.01419	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	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	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	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	0.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06903	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	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	ND	ND	ND	ND	ND	0.63516	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	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	7.6	ND	ND	ND	ND	ND	ND	0.34387	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	11.4	ND	16.6	11	ND	5.66129	5.0	
1,2-Dichloroethane				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	ND	ND	ND	ND	ND	ND	0.03032	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	ND	ND	ND	ND	ND	0.0071	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	45.5	ND	35.1	40.3	5.4	15.1097	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	0.95	ND	ND	0.37	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.18935	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	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	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	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	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	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	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	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.92581	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	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13871	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	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	ND	ND	ND	ND	ND	0.02774	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	ND	ND	ND	ND	ND	ND	0	5.0
Naphthalene				3.5	ND	ND	ND	ND	5.3	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39032	10.0	
n-Propylbenzene				1.3	ND	ND																															

DUPLICATE  
HISTORICAL ANALYTICAL RESULTS  
ISCHUA LANDFILL  
OLEAN, NEW YORK

	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	9/18	4/19	9/19	4/20	10/20	MEAN	NYS STD	
<b>PARAMETER METALS (mg/L)</b>																																					
Aluminum				ND	ND		ND	ND		ND				ND	ND			ND	0.008	0	-	ND	ND	-	ND	ND	ND	0.147	-	0.1	0.067	-	-	-	0.01342		
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	81.9	69.7	77.8	72.7	88.8	74.7484		
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	0.858	3.66	1.43	0.299	2.51	4.92548	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	25.7	10.3	24.3	23.1	13	17.7974	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	6.42	6.39	7.12	6.66	6.22	6.20155	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	2.93	2.39	2.3	2.4	ND	2.72323		
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	10.5	6	8.88	8.96	8.11	9.1971	20.0	
<b>PARAMETER (mg/l) TOXIC METALS</b>																																					
Antimony				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	-	ND	0.0141	-	-	-	0.00393	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	-	0.0696	0.12	-	-	-	0.11469	1.0	
Beryllium				ND		ND		ND	ND		ND			ND	ND			ND	0.0002	-	-	ND	ND	-	ND	ND	-	-	-	8.3E-06							
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	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	-	0.0052	ND	-	-	-	0.00065	0.05	
Copper				ND		ND		ND	ND		ND			ND	ND			ND	ND	-	-	0.02	ND	-	ND	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00083	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	ND	ND	ND	ND	ND	0.00045	0.025	
Mercury				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND	ND	-	ND	ND	ND	7E-05	-	ND	0.0003	-	-	-	1.2E-05	0.0007	
Nickel				ND		ND		ND	ND		ND			ND				ND	0.005	-	-	0.005	0.005	-	ND	ND	0.0036	ND	-	0.0045	0.0144	-	-	-	0.00163	0.1	
Selenium				ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	0.005	-	-	0.006	0.006	-	ND	ND	ND	ND	-	ND	ND	-	-	-	0.00065	0.0	
Silver				ND	ND	ND		ND	ND	ND	ND	ND		ND				ND	ND	-	-	0.001	0.001	-	ND	ND	ND	ND	-	ND	ND	-	-	-	7.7E-05	0.05	
Thallium				ND		ND		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	-	0.0032	ND	-	-	-	0.00668	2.0	
<b>PARAMETER (mg/l) LEACHATE INDICATORS</b>																																					
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	347	236	292	352	289	282.268		
Biochemical Oxygen Demand				6		ND		3.2	7.4		ND			ND	ND		ND	ND	4	-	-	14.2	3	ND	ND	ND	1	1	ND	ND	1.9	1.8	1.1	ND	1.784		
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	-	0.0507	0.039	-	-	-	0.04198	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	31.8	ND	30	18.8	31.5	16.5133		
Chromium (Hexavalent)				ND		ND		ND	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	10.7	2.3	9.3	5.7	10.7	10.6097	250	
Color (PCU units)				140		ND		60	100		15			0	17.5			5	34	-	-	380	19	-	5	10	10	-	-	5	15	-	-	-	33.9792	15	
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	ND	ND	0.049	ND	0.045	0.12598	10	
Nitrogen-Ammonia				18	0.23	ND	1.9	1.9	9.8	9.8	0.896	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	0.3	1	0.61	0.52	0.88	2.16323	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	0.0125	0.0141	0.004	ND	ND	0.00882	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	5.8	6.3	7.7	4.8	7.8	7.07548	250	
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	3.1	2.4	2.4	2.4	2.1	4.92097		
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	299	196	306	334	330	308.613	500	
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	17.3	200	300	400	247	253.274		
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	0.38	1.1	1	1.1	1.5	1.8412	
Turbidity (NTU units)				22.5	7.4	ND	9.2	9										0	0.3	-	-	7.1	ND	-	0.8	0.8	-	0	0	0	-	-	-	-	2.59545	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.