



Lena Road Landfill Semi-Annual Water Quality Monitoring Report First Semi-Annual Monitoring 2018

Manatee County Utilities Department
Solid Waste Division
3333 Lena Road
Bradenton, Florida 34211

SCS ENGINEERS

09217088.05 | September 13, 2018

SCS Engineers
3922 Coconut Palm Drive, Suite 102
Tampa, Florida 33619
(813) 621-0080

Lena Road Landfill
Semi-Annual Water Quality Monitoring Report
First Semi-Annual Monitoring Period 2018

Submitted to:

MANATEE COUNTY
Manatee County Utilities Department
Solid Waste Division
3333 Lena Road
Bradenton, Florida 34211

Prepared by:

SCS ENGINEERS
3922 Coconut Palm Drive, Suite 102
Tampa Florida 33619
(813)-621-0080

September 13, 2018
File No. 09217088.05



Kenneth Guilbeault, P.G.
PG License No. 2907



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.

Form Title: Water Quality Monitoring Certification

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Lena Road Class I Landfill

Address 3333 Lena Road

City Bradenton, FL

Zip 34211

County Manatee

Telephone Number (941) 748-5543

(2) WACS Facility ID 44795

(3) DEP Permit Number 39884-021-SO-01

(4) Authorized Representative's Name Bryan White

Title Landfill Superintendent

Address 3333 Lena Road

City Bradenton, FL

Zip 34211

State Florida

Telephone Number (941) 748-5543 X8008

Email address (if available) bryan.white@mymanatee.org

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

9-12-2018

(Date)

Bryan White

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Pace Analytical - Tampa (Tampa NELAC# E84809)

Analytical Lab NELAC / HRS Certification # NELAC # E83079 (Ormond Beach Laboratory)

Lab Name Pace Analytical - Tampa

Address 5460 Beaumont Center Boulevard, Suite 520, Tampa, FL 33634

Phone Number (813) 881-9401

Email address (if available) mike.valder@pacelabs.com

Northwest District
160 Government Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. 200 B
Jacksonville, FL 32256-7590
904-807-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
13051 N. Telecom Pky.
Tempe Terrace, FL
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33902-2549
239-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

Table of Contents

Section	Page
1 Introduction	1
2 Geologic And Hydrogeologic Characteristics	4
Semi-Annual Groundwater Flow Assessment.....	4
3 Landfill Monitoring Program	7
Groundwater Monitoring Program	7
Surface water Monitoring Program	9
4 Groundwater Quality	10
Metals Exceedances	10
Arsenic	10
Iron	10
Vanadium	10
General Chemistry and Field Parameters Exceedances	12
Ammonia	12
pH	12
TDS	12
5 Surface Water Quality	13
6 Summary.....	15

Figures

Figure 1-1. Site Location Map, Lena Road Landfill, Manatee County, Florida.....	2
Figure 1-2. Site Map, Lena Road Landfill, Manatee County, Florida	3
Figure 2-1. May 2018 Surficial Aquifer Water Level Map, Lena Road Landfill, Manatee County, Florida	6

Tables

Table 2-1. Groundwater Elevation Measurements, May 29, 2018	5
Lena Road Landfill, Manatee County, Florida	5
Table 3-1. Surficial Aquifer Well Locations and Construction Details, Lena Road Landfill, Manatee County, Florida.	8
Table 4-1. Summary of Groundwater Quality Analytical Results (Detected Parameters Only) Lena Road Landfill, May 2018 Detection	11
Table 5-1. Summary of Surface Water Quality Analytical Results (Detected Parameters Only) Lena Road Landfill, June 2018 Detection	14

Appendices

A	GROUNDWATER AND SURFACE WATER LABORATORY ANALYTICAL RESULTS AND FIELD FORMS
B	COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND ADaPT FILE

1 INTRODUCTION

SCS Engineers (SCS) prepared this semi-annual water quality monitoring report for the Lena Road Landfill on behalf of Manatee County Department of Solid Waste. The Lena Road Landfill is located at 3333 Lena Road, Bradenton, Florida and encompasses 316 acres of disposal areas and related facilities. The landfill is constructed with perimeter slurry wall.

This report was prepared in accordance with Florida Department of Environmental Protection (FDEP) Permit/certification No. 39884-010-SO/01, Water Quality Monitoring Plan; FDEP Standard Operating Procedures (Chapter 62-160, Florida Administrative Code (FAC)); and FDEP Solid Waste Water Quality Monitoring Requirements (Chapter 62-701.510(8)(a) FAC). Monitoring locations are shown on Figure 1-1. The first semi-annual 2018 groundwater data were obtained on May 29th through June 4, 2018. An electronic data deliverable (EDD) of the results in “ADaPT format” is attached as Appendix B. This EDD has been verified as uploadable into the latest version of ADaPT.

Water quality sampling and physical readings and measurements were performed by Pace Analytical Services, Inc. (PACE). Field work, sampling methodologies, data evaluation, and data Quality Assurance/Quality Control (QA/QC) were conducted in accordance with FAC Chapter 62-160 Standard Operating Procedures (DEP-SOP-001/01), the facility’s Water Quality Monitoring Plan, and the Lena Road Landfill solid waste permit. Laboratory analyses were performed in accordance with Chapter 62-160, FAC DEP-SOP-002/01 and the Lena Road Landfill solid waste permit.

C:\Users\4382kkc\appdata\local\temp\AcPublish_9516\Site Map Lena LF.dwg Feb 19, 2018 - 1:21pm Layout Name: 1-1 site location map By: 4382kkc

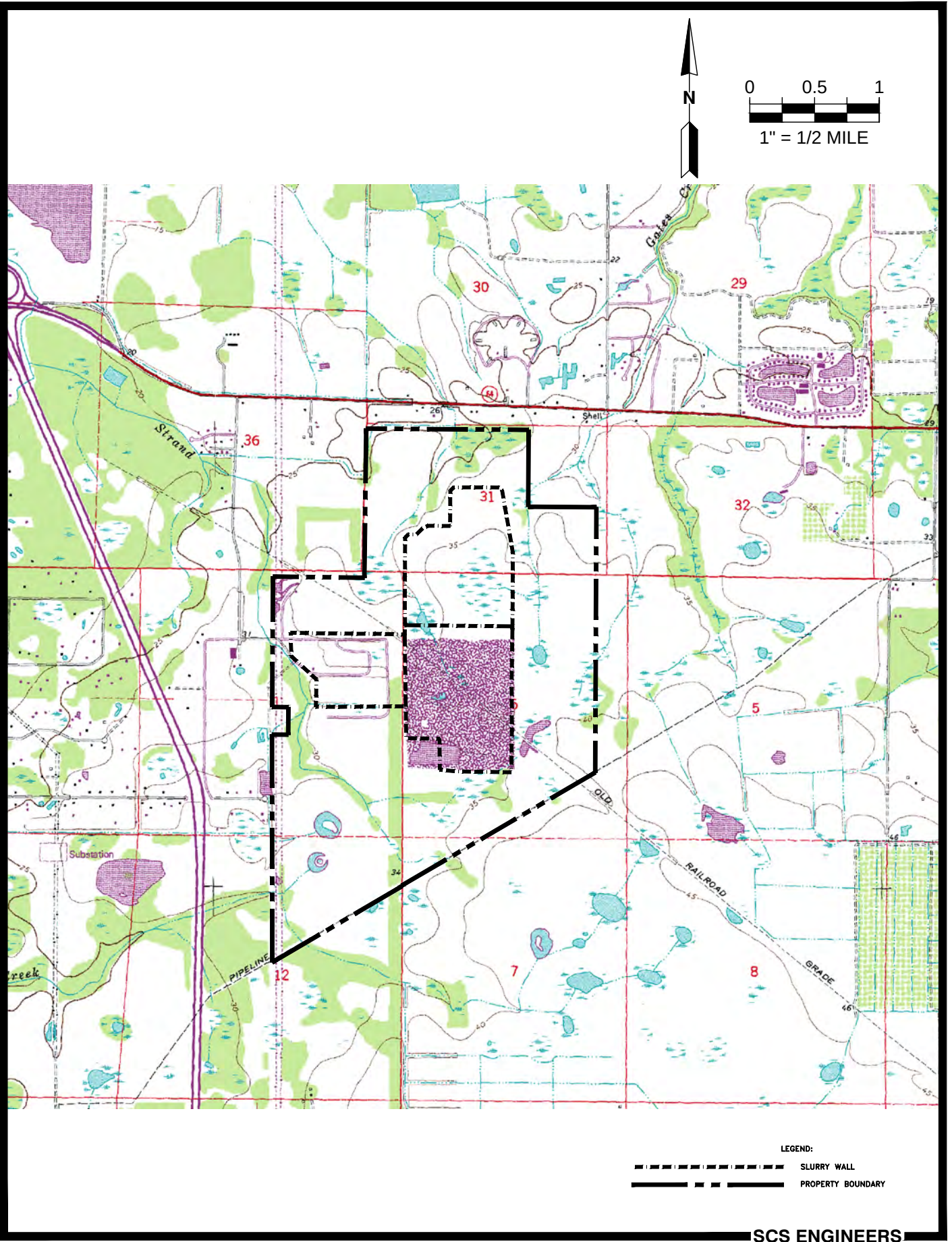
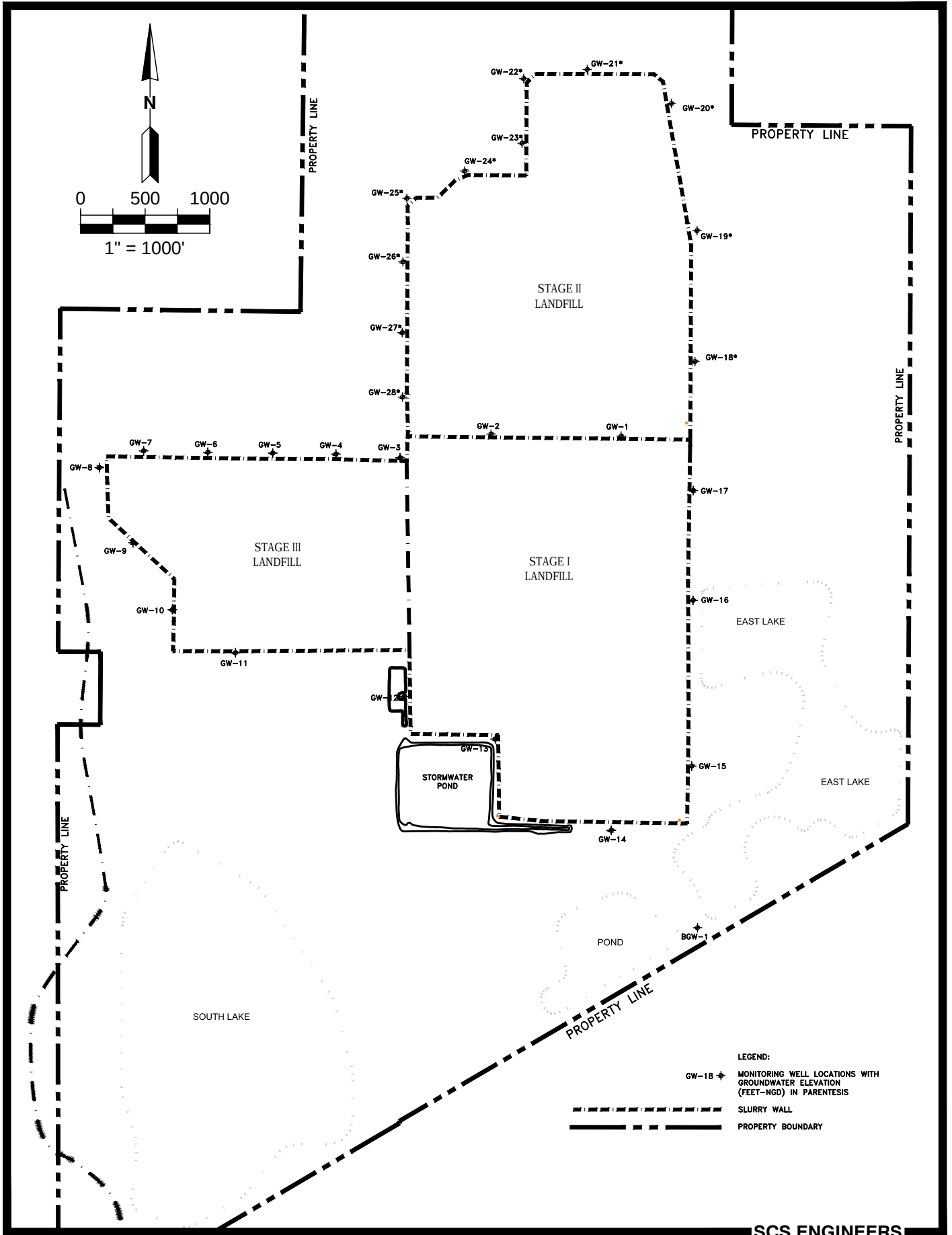


FIGURE 1-1. SITE LOCATION MAP
LENA ROAD LANDFILL, MANATEE COUNTY, FLORIDA

C:\Users\4382kkc\appdata\local\temp\AcPublish_9516\Site Map Lena LF.dwg Feb 19, 2018 - 1:21pm Layout Name: 1-2 site map By: 4382kkc



SCS ENGINEERS

**FIGURE 1-2. SITE MAP
LENA ROAD LANDFILL, MANATEE COUNTY, FLORIDA**

2 GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

The regional geologic units, which comprise the subsurface beneath the site consist of, in descending order, as the undifferentiated Pliocene to Recent age deposits, the Hawthorne Group, the Suwannee Limestone, the Ocala Group, and the Avon Park Limestone. The Pliocene to Recent age deposits are clastics and comprised of sand, silt, and clay. They measure approximately 30 feet thick beneath the County. The calstics overly the Hawthorne Group, which ranges between 200 and 300 feet in thickness regionally and consists of heterogeneous sequences of phosphatic, sandy, clayey, calcareous, and dolomitic sediments. Underlying the Hawthorne Group, in descending order, are the Oligocene Suwannee Limestone, the Eocene Ocala Group, and the Avon Park Limestone. These formations generally consist of tan, granular limestone and interbedded dolomite, and collectively reach a thickness of approximately 1,600 feet in Manatee County.

Local hydrogeology is characterized by three aquifers underlying Manatee County and the Lena Road Landfillsite:

- Surficial aquifer system
- Intermediate aquifer system
- Floridan Aquifer system

The surficial aquifer system is contained within the Pliocene to Recent age deposits. The surficial aquifer is generally undeveloped as a source of potable water in Manatee County, with only a small volume used for domestic supply, lawn irrigation, or stock watering. The direction of groundwater flow in the surficial aquifer in Manatee County is generally to the west and south. This pattern is interrupted locally where the aquifer discharges into streams, lakes, or low swampy areas.

The intermediate aquifer system occurs within the Hawthorne Group. The intermediate aquifer system supplies most of the water for domestic and irrigation use in Manatee County. The quality of water in the intermediate aquifer is generally good except near the coast where saltwater intrusion has occurred. In the central portion of the County, concentrations of dissolved solids range from approximately 250 to 400 parts per million (ppm).

The Floridan Aquifer System in Manatee County occurs within the carbonates of the Tampa Limestone, Suwannee Limestone, the Ocala Group, and the Avon Park Limestone. Water from the Floridan Aquifer is used primarily for irrigation, with minor amounts used for industrial purposes, and occasionally for public and domestic water supplies.

Semi-Annual Groundwater Flow Assessment

The groundwater flow assessment of the surficial aquifer was performed using the groundwater elevation data obtained on May 29, 2018, from Lena Road Landfill monitoring wells. This groundwater flow assessment included collecting and compiling groundwater depth measurements, calculating groundwater elevations, and constructing site figures depicting groundwater contours and the estimated groundwater flow direction. Table 2-1 lists monitoring well numbers, measured depths to water, and calculated groundwater elevations. Figure 2-1 shows groundwater potentiometric contours interpolated from the May 29, 2018, water level data. The water level contours are inferred from the water level data collected outside and immediately adjacent to the slurry wall. Based on the May 29, 2018 potentiometric map, groundwater flow direction is toward the north-northwest.

Table 2-1. Water Level Data, May 29, 2018
Lena Landfill, Manatee County, Florida

Location ID	Top of Casing (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	05/29/2018 Groundwater Elevation (Feet NGVD)
GW-1	38.68	ND	ND
GW-2	40.92	ND	ND
GW-3	39.40	4.54	34.86
GW-4	40.53	6.54	33.99
GW-5	39.90	6.50	33.40
GW-6	38.95	6.11	32.84
GW-7	39.49	7.72	31.77
GW-8	39.75	9.15	30.60
GW-9	39.65	9.67	29.98
GW-10	38.34	7.20	31.14
GW-11	38.26	6.11	32.15
GW-12	42.09	9.09	33.00
GW-13	44.79	10.65	34.14
GW-14	39.63	4.75	34.88
GW-15	42.33	7.31	35.02
GW-16	44.41	10.58	33.83
GW-17	42.19	7.25	34.94
GW-18	41.76	6.29	35.47
GW-19	41.20	6.51	34.69
GW-20	41.00	7.39	33.61
GW-21	40.94	13.32	27.62
GW-22	41.53	12.26	29.27
GW-23	40.91	6.28	34.63
GW-24	41.37	7.79	33.58
GW-25	41.11	7.00	34.11
GW-26	41.44	7.12	34.32
GW-27R	40.90	5.94	34.96
BGW-1	47.57	10.55	37.02

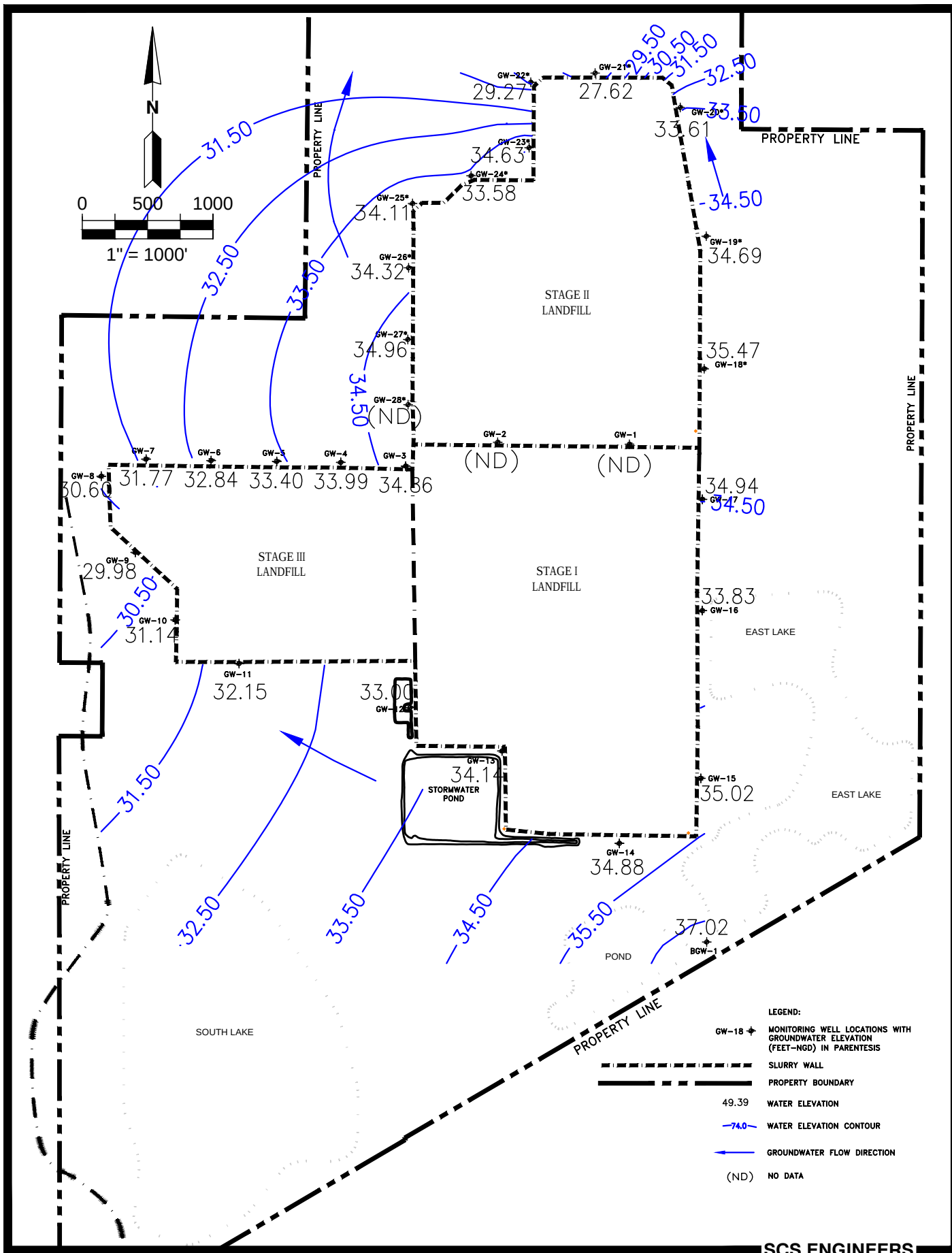
Notes:

NGVD = National Geodetic Vertical Datum.

MW = Monitoring Well

NM = No Measurement

C:\PROJECT\Manatee\T1 - Potentiometric Maps\lena\contour maps.dwg Aug 20, 2018 - 10:37am Layout Name: May 2018 By: 4137m_b



SCS ENGINEERS

FIGURE 2-1. May 2018 Shallow Surficial Aquifer Water Level Map
Lena Road Landfill, Manatee County, Florida

3 LANDFILL MONITORING PROGRAM

According to Lena Road Landfill's permit¹, the landfill monitoring program consists of monitoring the surficial aquifer groundwater quality and surface water quality.

GROUNDWATER MONITORING PROGRAM

The surficial aquifer groundwater currently is monitored at 26 compliance monitoring wells (GW-3 through GW-17 and BW-1) and recently-installed (April 2016) GW-18 through GW-27R. The well locations are shown on Figure 1-2. The construction details for the active monitoring wells comprising the monitoring system are included in Table 3-1. The current permit requires semiannual sampling of the compliance monitoring wells for the field and laboratory parameters listed below.

Field Parameters

- Static water level before purging
- Specific conductance
- pH
- Dissolved oxygen
- Turbidity
- Temperature
- Color and sheen (by observation)

Laboratory Parameters (Unfiltered)

- Total ammonia – nitrogen
- Chlorides
- Iron
- Mercury
- Nitrate
- Sodium
- Total Dissolved Solids (TDS)
- Those parameters listed in 40 CFR Part 258, Appendix I

Semi-annual reporting of the results of groundwater sampling is performed in accordance with the Lena Road Landfill permit¹.

¹Florida Department of Environmental Protection. "Solid Waste Operation Permit, Permit No. 39884-021-SO-01." 2016.

TABLE 3-1. EXISTING MONITORING LOCATIONS AND CONSTRUCTION DETAILS, LENA ROAD LANDFILL, MANATEE COUNTY, FLORIDA

WACS ID	Water Quality Monitoring Site ID	Well Type	Aquifer Monitored	Top of Casing Elevation (NGVD)	Well Diameter	Screen Slot Size	Screen Length (feet)	Top of Screen (Feet BTOC)	Bottom of Screen (Feet BTOC)	Top of Screen (Feet NGVD)	Bottom of Screen (Feet NGVD)	Northing (NAD 1983)	Easting (NAD 1983)	Latitude (NAD 1983)	Longitude (NAD 1983)
21593	GW-1	DE	Surficial	38.68	2	0.010	15	3.92	18.92	34.76	19.76	1141555.84	514101.29	27° 28' 24.676"	82° 26' 17.304"
21594	GW-2	DE	Surficial	40.92	2	0.010	15	3.91	18.91	37.01	22.01	1141565.32	512079.53	27° 28' 24.698"	82° 26' 39.751"
21595	GW-3	DE	Surficial	39.4	2	0.010	15	4.06	19.06	35.34	20.34	1141382.25	511374.68	27° 28' 22.860"	82° 26' 47.569"
21596	GW-4	DE	Surficial	40.53	2	0.010	15	4.13	19.13	36.40	21.40	1141410.65	510878.61	27° 28' 23.124"	82° 26' 53.078"
21597	GW-5	DE	Surficial	39.9	2	0.010	15	4.16	19.16	35.74	20.74	1141415.37	510383.90	27° 28' 23.153"	82° 26' 58.570"
21598	GW-6	DE	Surficial	38.95	2	0.010	15	4.04	19.04	34.91	19.91	1141424.68	509886.01	27° 28' 23.227"	82° 27' 04.099"
21599	GW-7	DE	Surficial	39.49	2	0.010	15	5.04	20.04	34.45	19.45	1141435.59	509387.99	27° 28' 23.318"	82° 27' 09.628"
21600	GW-8	DE	Surficial	39.75	2	0.010	15	4.82	19.82	34.93	19.93	1141305.40	509044.79	27° 28' 22.016"	82° 27' 13.433"
21601	GW-9	DE	Surficial	39.65	2	0.010	15	5.06	20.06	34.59	19.59	1140722.84	509305.79	27° 28' 16.256"	82° 27' 10.512"
21602	GW-10	DE	Surficial	38.34	2	0.010	15	4.65	19.65	33.69	18.69	1140206.62	509611.46	27° 28' 11.156"	82° 27' 07.098"
21603	GW-11	DE	Surficial	38.26	2	0.010	15	6.11	21.11	32.15	17.15	1139864.83	510378.37	27° 28' 07.799"	82° 26' 58.570"
21604	GW-12	DE	Surficial	42.09	2	0.010	15	4.77	19.77	37.32	22.32	1139527.51	511409.94	27° 28' 04.495"	82° 26' 47.104"
21605	GW-13	DE	Surficial	44.79	2	0.010	15	4.72	19.72	40.07	25.07	1139203.08	512112.46	27° 28' 01.307"	82° 26' 39.292"
21606	GW-14	DE	Surficial	39.63	2	0.010	15	4.65	19.65	34.98	19.98	1138496.26	513011.13	27° 28' 54.339"	82° 26' 29.287"
21607	GW-15	DE	Surficial	42.33	2	0.010	15	4.50	19.50	37.83	22.83	1138992.94	513634.35	27° 27' 59.280"	82° 26' 22.388"
21608	GW-16	DE	Surficial	44.41	2	0.010	15	4.65	19.65	39.76	24.76	1140276.77	513645.17	27° 28' 11.994"	82° 26' 22.318"
21609	GW-17	DE	Surficial	42.19	2	0.010	15	5.30	20.30	36.89	21.89	1141976.95	513542.64	27° 28' 28.826"	82° 26' 23.523"
27495	GW-18	DE	Surficial	41.76	2	0.010	14.5	9.26	24.26	32.5	17.5	1142169.68	513662.64	27° 28' 30.739"	82° 26' 22.199"
27496	GW-19	DE	Surficial	41.20	2	0.010	14.5	10.7	25.7	30.5	15.5	1143144.92	513646.150	27° 28' 40.396"	82° 26' 22.420"
27497	GW-20	DE	Surficial	41.00	2	0.010	14.5	8.5	23.5	32.5	17.5	1144104.750	513482.920	27° 28' 49.895"	82° 26' 24.270"
27498	GW-21	DE	Surficial	40.94	2	0.010	14.5	8.44	23.44	32.5	17.5	1144390.55	512833.490	27° 28' 52.702"	82° 26' 31.492"
27499	GW-22	DE	Surficial	41.53	2	0.010	14.5	8.03	23.03	33.5	18.5	1144329.50	512336.37	27° 28' 52.080"	82° 26' 37.009"
27500	GW-23	DE	Surficial	40.91	2	0.010	14.5	7.41	22.41	33.5	18.5	1143811.98	512321.55	27° 28' 46.955"	82° 26' 37.153"
27501	GW-24	DE	Surficial	41.37	2	0.010	14.5	6.87	21.87	34.5	19.5	1143598.33	511865.48	27° 28' 44.823"	82° 26' 42.209"
27502	GW-25	DE	Surficial	41.11	2	0.010	14.5	6.61	21.61	34.5	19.5	1143393.13	511433.06	27° 28' 42.776"	82° 26' 47.001"
27503	GW-26	DE	Surficial	41.44	2	0.010	14.5	8.94	23.94	32.5	17.5	1142883.01	511397.49	27° 28' 37.723"	82° 26' 47.376"
27504	GW-27R	DE	Surficial	40.90	2	0.010	14.5	7.4	22.4	33.5	18.5	1142133.55	511396.54	27° 28' 30.301"	82° 26' 47.357"
21610	BGW-1	BG	Surficial	47.57	2	0.010	15	4.8	19.8	42.77	27.77	1137577.96	513559.24	27° 27' 45.265"	82° 26' 23.166"

- Notes:
1. Well Information was obtained from the Atkins.
 2. NGVD = National Geodetic Vertical Datum of 1929.
 3. NAD 1983 = North American Datum of 1983.
 4. WACS = State Water Assurance Compliance System.
 5. BTOC = Below Top of Casing
 6. NA = Not Applicable.
 7. ND = Data not available.
 8. DE= Detection.
 9. PZ = Peizometer

SURFACE WATER MONITORING PROGRAM

The surface water monitoring sites include one downstream location SW-1 and one upstream location SW-2. The sampling site characteristics are described in Table 1-1, and the surface water sampling locations are shown on Figure 1. Electronic water level monitoring devices have been installed at the pump stations in the East Lake and the South Lake (see Figure 1), and are used to measure water levels at the surface water bodies near the landfill. The water level data are reported in conjunction with the groundwater level data.

Surface water sampling locations are sampled semi-annually for the following parameters:

Field Parameters

- Surface Water Elevation
- Specific conductivity
- pH
- Dissolved oxygen
- Turbidity
- Temperature
- Colors and sheens (by observation)

Laboratory Parameters (Unfiltered)

- Biochemical Oxygen Demand (BOD₅)
- Chemical Oxygen Demand (COD)
- Total Organic Carbon (TOC)
- Chlorophyll A
- Total Hardness (as mg/l CaCO₃)
- Iron
- Mercury
- Nitrate
- Total Nitrogen
- Un-ionized ammonia
- Total phosphorus (as mg/l P)
- TDS
- Total Suspended Solids (TSS)
- Fecal Coliform
- Those parameters listed in 40 CFR 258, Appendix I

4 GROUNDWATER QUALITY

Appendix A includes the laboratory analytical data and field forms. Table 4-1 lists groundwater quality detections and exceedances. In accordance with Chapter 62-701, FAC, groundwater results were compared to Primary Drinking Water Standards (PDWSs) and Secondary Drinking Water Standards (SDWSs) listed in Chapter 62-550. For this routine groundwater monitoring report, groundwater cleanup target levels (GCTLs) in Rule 62-777, FAC, were used for constituents that do not have a PDWS or SDWS as a screening tool for potential anomalies in the concentration data that may require further consideration or review. Per Chapter 62-701.510(7)(c)(2), GCTLs are only applicable to solid waste facilities outside of the zone of discharge.

METALS EXCEEDANCES

Metals with concentrations in excess of applicable groundwater standards or GCTLs in select wells include:

- Arsenic
- Iron
- Vanadium

These exceedances are discussed below and are listed in Table 4-1.

Arsenic

Arsenic was detected above the FDEP PDWS of 10 micrograms per liter ($\mu\text{g/L}$) in monitoring well GW-10 (27.7 $\mu\text{g/L}$) and GW-11 (12.4 $\mu\text{g/L}$) during the first semiannual 2018 sampling event. Arsenic concentrations at GW-10 and GW-11 are within the historical range of concentrations. Arsenic concentrations at GW-10 and GW-11 will continue to be monitored during subsequent monitoring events.

Iron

Iron was detected above the FDEP SDWS of 300 $\mu\text{g/L}$ in nineteen of the 26 monitoring wells during the June 2018 groundwater sampling event. Iron concentrations in monitoring wells GW-3, GW-4, GW-6, GW-7, GW-8, GW-12, and GW-25 were below the SDWS, other wells reported iron at concentrations exceeding the SDWS. The iron concentrations during June 2018 sampling event were generally consistent with historical data.

Vanadium

Vanadium was detected above the GCTL of 49 micrograms per liter ($\mu\text{g/L}$) in monitoring well GW-10 (66.6 $\mu\text{g/L}$) and GW-16 (61.5 $\mu\text{g/L}$) during the first semiannual 2018 sampling event. Vanadium concentrations at GW-10 and GW-11 will continue to be monitored during subsequent monitoring events.

Table 4-1. Summary of Groundwater Quality Analytical Results (Detected Parmeters Only)
Lena Landfill, June 2018

Parameter	Standard	MCL	Units	BGW-1	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8	GW-9	GW-10	GW-11	GW-12	GW-13	GW-14	GW-15	GW-16	GW-17	GW-18	GW-19	GW-20	GW-21	GW-22	GW-23	GW-24	GW-25	GW-26	GW-27R	
Volatile Organic Compounds																														
Benzene	PDWS	1	ug/L	0.1 U	0.14 I	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
Metals																														
Antimony	PDWS	6	ug/L	0.57 I	1.8	0.92 I	1.3	1.5	1.6	0.5 U	0.5 U	4.4	1	2.7	0.5 U	0.5 U	0.5 U	2.4	0.5 U	0.5 U	0.5 U	0.52 I	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Arsenic	PDWS	10	ug/L	0.69 I	2.1	1.1	1.8	2.5	2.4	5.4	3.9	27.7	12.4	1.8	6.3	1.1	6.7	3.8	1.2	4.7	3.2	3.2	2.3	1.4	3.6	0.57 I	0.5 U	4.2	4.4	
Barium	PDWS	2000	ug/L	19.8	13.5	11.4	14.9	12	12.8	18.1	6.1 I	17	12.6	34.8	26.1	29.4	65.9	47.6	5 U	19.5	13.6	12.1	10.3	20.2	15.1	30.6	17	17.9	13	
Chromium	PDWS	100	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.5	2.5 U	8	3.4 I	2.5 U	2.5 U	2.5 U	6.1	2.5 U	7.9	2.5 U	2.5 U	2.5 U	
Copper	SDWS	1000	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	6.8	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	
Iron	SDWS	300	ug/L	1700	201	292	1490	185	110	45.9	394	4740	2500	116	4340	850	22900	950	5650	1150	701	835	366	957	1260	551	229	1000	1330	
Lead	PDWS	15	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.52 I	0.5 U	0.87 I	0.5 U	0.5 U	0.5 U	2.2	0.5 U	2.3	0.5 U	0.5 U	0.5 U	0.5 U	
Nickel	PDWS	100	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.2 I	2.5 U	2.5 U	2.5 U	
Selenium	PDWS	50	ug/L	7.5 U	10.4	7.6	10.4	30.5	29.6	0.92 I	7.5 U	7.5 U	7.5 U	21.2	7.5 U	7.5 U	7.5 U	11.3 I	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	0.62 I	0.84 I	0.5 U	
Sodium	PDWS	160	mg/L	10.4	5.3	3.7	8.5	3.8	8.4	12.7	1.9	4.5	19	4.4	15	3.6	50.8	33.8	2.6	9.3	15.4	7	6.6	4.9	7.2	5.1	9	8.9	11.9	
Vanadium	GCTL	49	ug/L	10.7	12.1	19.6	25.8	11.1	25.2	5 U	8.3 I	66.6	7.2 I	36.7	9.4 I	5 U	33.6	61.5	29	12.3	6.5 I	6.1 I	7.9 I	26.6	5 U	12.6	5 U	8.6 I	10.4	
General Chemistry																														
Ammonia (N)	GCTL	2.8	mg/L	0.61	0.054	0.14	0.21	0.035 U	0.14	0.82	0.12	0.5	0.13	0.088	4.2	0.059	0.97	0.22	1.1	0.035 U	0.13	0.035 U	0.069	0.086 J	0.63	0.035 U	0.035 U	0.22	0.035 U	
Chloride	SDWS	250	mg/L	15.1	12.9	7.3	13.5	5.3	11.8	13.9	2.5 U	9	25.4	4.8 I	11.4	4.3 I	87.8	34.4	4.4 I	15.9	28.2	14.4	10.6	8.3	12.4	5.5	13.3	18.7	26.3	
Nitrate (N)	PDWS	10	mg/L	0.27	3.8	8.2	9.7	1.9	1.1	0.15	0.035 I	0.025 U	0.025 U	6.7	0.025 U	2.2	0.025 U	6.4	0.025 U	0.1	0.055	0.21	0.059	0.13	0.13	0.13	0.35	2	0.059	
Residues- Filterable (TDS)	SDWS	500	mg/L	279	405	247	378	583	466	490	158	431	340	435	720	454	588	386	83	266	298	274	212	164	199	220	224	229	354	
Field Parameter																														
Specific Conductance	NS	NS	umhos/cm	440.2	584	392.8	514	880	621	696	287.2	704	466	707	1261	741	867	622	95.1	342.1	417.2	407.3	272.3	209.1	288.1	273.2	378	271.6	579	
Dissolved Oxygen	NS	NS	mg/L	0.36	3	2.53	2.22	4.23	3.51	0.17	0.46	0.21	0.38	1.5	0.27	0.25	0.14	0.7	0.22	2.52	1.07	1.46	0.38	0.19	0.59	3.1	2.63	2.59	0.96	
Dissolved Oxygen	MPIS	20	% Sat.	4.28	36.98	30.62	27.37	52.15	43.27	2.1	5.67	2.54	4.51	18.49	3.27	3.03	1.73	8.63	2.71	30.5	13.19	18	4.77	2.34	7.54	38.92	32.42	31.35	11.62	
pH	SDWS	6.5-8.5	Std. Units	6.1	6.63	6.47	6.56	7.1	6.64	6.64	6.88	6.74	6.56	6.55	6.58	6.44	6.23	6.06	5.52	6	5.77	6.05	5.57	5.47	5.89	6.14	6.64	5.96	6.53	
Temperature, Water	NS	NS	deg C	24.4	25.6	24.8	25.6	25.6	26	26.1	25.6	25.1	24	25.6	25.4	24.8	25.8	25.6	25.7	25.3	26.3	26.1	27.1	25.9	27.7	27.1	25.5	25.1	25.3	
Turbidity	NS	NS	NTU	3.1	5.9	5.54	13.6	2.79	2.5	2.2	18.8	19.7	5.75	1.6	3.73	5.4	3.34	8.4	7.23	15.4	2.5	10	8.76	7.6	6.72	8.5	12.5	15.4	15.4	

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. MPIS = Monitoring Plan Implementation Schedule
 5. NS = No numeric standard has been set for this analyte.
 6. --- = Parameter not analyzed.
 7. mg/L = milligrams per liter
 8. ug/L = micrograms per liter
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. J = Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample recovery.

GENERAL CHEMISTRY AND FIELD PARAMETERS EXCEEDANCES

General chemistry and field parameters with concentrations in excess of or outside of applicable groundwater standards or GCTLs in select wells include:

- Ammonia
- pH
- TDS

These exceedances are discussed below and are listed in Table 4-1.

Ammonia

During the June 2018 sampling event, ammonia concentrations exceeded the Chapter 62-777 F.A.C. GCTL of 2.8 milligrams per liter (mg/L) in monitoring well GW-13 (4.2 mg/L).

These detected concentrations are generally consistent with historical concentrations. Ammonia concentrations will continue to be monitored during subsequent monitoring events.

pH

The pH measurements were not within the Chapter 62-550, FAC SDWS range of 6.5-8.5 standard units (SU) at samples collected from several of the monitoring wells. pH was below the range in monitoring wells BGW-1, GW-4, GW-14, GW-15, GW-17, GW-18, GW-19, GW-20, GW-21, GW-22, GW-23, GW-24, and GW-26. This group of wells includes the background monitoring well BGW-1, indicating low pH is a naturally occurring condition in the surficial aquifer. pH will continue to be monitored during subsequent monitoring events.

TDS

During the June 2018 sampling event, TDS concentrations exceeded the SDWS of 500 mg/L in compliance monitoring wells GW-6 (583 mg/L), GW-13 (720 mg/L), and GW-15 (588 mg/L). These detected concentrations are generally consistent with historical concentrations. TDS concentrations will continue to be monitored during subsequent monitoring events.

5 SURFACE WATER QUALITY

Exceedances in surface water quality concentrations of various parameters are defined as concentrations in excess of Chapter 62-701.510(5)(d)&(7)(b), F.A.C. Table 5-1 lists the detections at surface water locations SW-1 and SW-2. Iron was detected above the MCL of 1000 µg/L in SW-1 (4570 µg/L) and SW-2 (17000 µg/L) during the June 2018 groundwater sampling event. The iron concentrations during the June 2018 and previous sampling events fluctuates when compared to historical data.

Mercury was detected above the MCL of 0.012 µg/L in SW-2 (17000) during the June 2018 groundwater sampling event. Mercury concentrations detected in SW-2 during the June 2018 event appears to fluctuate when compared to historical data.

The dissolved oxygen concentrations at SW-1 (2.3 mg/L) and SW-2 (0.8 mg/L) was lower than the Surface Water Criteria of greater than 5.0 mg/L. The dissolved oxygen concentration at SW-1 and SW-2 are consistent with historical values. Other concentrations of sampled parameters did not exceed their respective Surface Water Criteria during the June 2018 sampling event.

Appendix A includes the laboratory analytical data and field forms for surface water sampling locations SW-1 and SW-2.

**Table 5-1. Summary of Surface Water Quality Analytical Results
(Detected Parameters Only)
Lena Landfill, June 2018**

Parameter	MCL	Units	SW-1	SW-2
Volatile Organic Compounds				
Chlorophyll a- uncorrected	NS	ug/L	3.2 U	4.7 I
Metals				
Arsenic	50	ug/L	7.7	101
Barium	NS	ug/L	17	26.9
Calcium	NS	mg/L	39.3	43.4
Iron	1000	ug/L	4570	17000
Magnesium	NS	mg/L	11.9	15.1
Mercury	0.012	ug/L	0.00905	0.0177
Vanadium	NS	ug/L	5 U	5.6 I
General Chemistry				
Ammonia (N)	NS	mg/L	0.12	0.049 I
COD	NS	mg/L	83	121
Carbon- Total Organic	NS	mg/L	31.6	45.1
Hardness- Calculated	NS	mg/L	147	171
Coliform Fecal	NS	#/100 mL	47	51
Phosphorus- Total	NS	mg/L	0.39	0.21
Nitrate (N)	NS	mg/L	0.061	0.025 U
Nitrate-Nitrite (N)	NS	mg/L	0.061	0.033 U
Nitrogen- Total	NS	mg/L	1.4	1.6
Nitrogen- Total Kjeldahl	NS	mg/L	1.4	1.6
Residues- Filterable (TDS)	NS	mg/L	339	375
Residues- Nonfilterable (TSS)	NS	mg/L	6.3	12.8
Field Parameters				
Specific Conductance	1275	umhos/cm	437.1	545
Dissolved Oxygen	>5.0	mg/L	2.3	0.8
pH	6.5-8.5	Std. Units	6.71	7.08
Temperature, Water	NS	deg C	27.3	25.9
Turbidity	<29	NTU	14.5	9.54

1. Parameter MCL is a Surface Water Criterion (Chapter 62-302 F.A.C.).
2. NS = No numeric standard has been set for this analyte.
3. Turbidity MCL is 29 NTUs over background levels
4. MCL = Maximum Contamination Level.
5. Shaded = Sample result above the MCL.
6. mg/L = milligrams per liter.
7. ug/L = micrograms per liter.
8. umhos/cm = micromhos/centimeter
9. NTU = nephelometric turbidity units.
10. U = Analyte concentration was below the laboratory detection limit (value shown).
11. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.

6 SUMMARY

Groundwater flow assessment shows that the groundwater in the in the shallow surficial aquifer radiates primarily to the north-northwest. The groundwater flow direction is consistent with historical data.

The analytical results from the sampling event showed the following exceedances:

- Arsenic in groundwater was detected above the FDEP PDWS of 10 µg/L at monitoring well GW-10 (27.7 µg/L) and GW-11 (12.4 µg/L) during the June 2018 sampling event. Arsenic concentrations at GW-10 and GW-11 are within the historical range of concentrations.
- Iron in groundwater was detected above the FDEP SDWS of 300 µg/L in most monitoring wells during the June 2018 groundwater sampling event. The iron concentrations during the June 2018 sampling event were generally consistent with historical data.
- Ammonia, pH, and TDS were detected at concentrations in excess of the regulatory criteria in groundwater. pH was below the range of 6.5-8.5 at about half of the monitoring locations, indicating low pH is a natural condition of the surficial aquifer.
- Iron was detected above the MCL of 1,000 µg/L in both surface water samples during the June 2018 sampling event. These concentrations are consistent with historical data.
- Mercury was detected above the MCL of 0.012 µg/L in the surface water sample collected from SW-2) during the June 2018 groundwater sampling event. Mercury concentrations detected in SW-2 during the June 2018 event appears to fluctuate when compared to historical data.
- The dissolved oxygen concentrations at SW-1 and SW-2 were lower than the Surface Water Criteria of greater than 5.0 mg/L during the June 2018 sampling event. These detections were consistent with historical data.



APPENDIX A LABORATORY ANALYTICAL RESULTS AND FIELD FORMS

June 12, 2018

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Rd Landfill (Existing)
Pace Project No.: 35394739

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Bob Bennett, Manatee County
Ken Guilbeault, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677

Florida Certification #: E84129

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35394739001	GW-25	Water	05/29/18 08:05	05/29/18 16:10
35394739002	GW-26	Water	05/29/18 08:53	05/29/18 16:10
35394739003	GW-27	Water	05/29/18 09:48	05/29/18 16:10
35394739004	GW-3	Water	05/29/18 10:31	05/29/18 16:10
35394739005	GW-4	Water	05/29/18 11:16	05/29/18 16:10
35394739006	GW-5	Water	05/29/18 12:03	05/29/18 16:10
35394739007	GW-6	Water	05/29/18 12:53	05/29/18 16:10
35394739008	GW-7	Water	05/29/18 13:35	05/29/18 16:10
35394739009	GW-8	Water	05/29/18 14:09	05/29/18 16:10
35394739010	GW-8 Dup	Water	05/29/18 14:09	05/29/18 16:10
35394739011	Trip Blank	Water	05/29/18 08:05	05/29/18 16:10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35394739001	GW-25	EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	50	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
35394739002	GW-26	EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
35394739003	GW-27	EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
35394739004	GW-3	EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
35394739005	GW-4	EPA 8011	LJM	2	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35394739006	GW-5	EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
35394739007	GW-6	EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
35394739008	GW-7	EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
35394739009	GW-8	EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35394739010	GW-8 Dup	EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	BTS	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
35394739011	Trip Blank	EPA 353.2	KEK	1	PASI-O
		EPA 8011	LJM	2	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-25 Lab ID: 35394739001 Collected: 05/29/18 08:05 Received: 05/29/18 16:10 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.64	Std. Units			1		05/29/18 08:05		
Field Temperature	25.5	deg C			1		05/29/18 08:05		
Field Specific Conductance	378	umhos/cm			1		05/29/18 08:05		
Oxygen, Dissolved	2.63	mg/L			1		05/29/18 08:05	7782-44-7	
Turbidity	12.5	NTU			1		05/29/18 08:05		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 16:57	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	05/31/18 04:00	05/31/18 16:57	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	17.0	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 10:57	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 10:57	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 10:57	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 10:57	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 10:57	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 10:57	7440-50-8	
Iron	229	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 10:57	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 10:57	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 10:57	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 10:57	7440-22-4	
Sodium	9.0	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 10:57	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 10:57	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 10:57	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:43	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:43	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:43	7439-92-1	
Selenium	0.62 I	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:43	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:43	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:07	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 00:24	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 00:24	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 00:24	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 00:24	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 00:24	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 00:24	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 00:24	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-25 **Lab ID: 35394739001** Collected: 05/29/18 08:05 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 00:24	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 00:24	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 00:24	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 00:24	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 00:24	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 00:24	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 00:24	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 00:24	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 00:24	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 00:24	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 00:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 00:24	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 00:24	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 00:24	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 00:24	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 00:24	1330-20-7	
m&p-Xylene	1.0 U	ug/L	2.0	1.0	1		06/05/18 00:24	179601-23-1	
o-Xylene	0.50 U	ug/L	1.0	0.50	1		06/05/18 00:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		05/31/18 01:05	460-00-4	
4-Bromofluorobenzene (S)	92	%	89-111		1		06/05/18 00:24	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	75-135		1		06/05/18 00:24	17060-07-0	
1,2-Dichloroethane-d4 (S)	102	%	75-135		1		05/31/18 01:05	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		05/31/18 01:05	2037-26-5	
Toluene-d8 (S)	109	%	89-112		1		06/05/18 00:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-25		Lab ID: 35394739001		Collected: 05/29/18 08:05		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	224	mg/L	5.0	5.0	1		05/30/18 15:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	13.3	mg/L	5.0	2.5	1		05/30/18 11:52	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/06/18 17:03	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.35	mg/L	0.050	0.025	1		05/30/18 09:05	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-26 **Lab ID: 35394739002** Collected: 05/29/18 08:53 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.96	Std. Units			1		05/29/18 08:53		
Field Temperature	25.1	deg C			1		05/29/18 08:53		
Field Specific Conductance	271.6	umhos/cm			1		05/29/18 08:53		
Oxygen, Dissolved	2.59	mg/L			1		05/29/18 08:53	7782-44-7	
Turbidity	15.4	NTU			1		05/29/18 08:53		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0061 U	ug/L	0.019	0.0061	1	05/31/18 04:00	05/31/18 17:27	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	05/31/18 04:00	05/31/18 17:27	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	17.9	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:00	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:00	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:00	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:00	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:00	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:00	7440-50-8	
Iron	1000	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:00	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:00	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:00	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:00	7440-22-4	
Sodium	8.9	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:00	7440-23-5	
Vanadium	8.6 I	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:00	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:00	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:54	7440-36-0	
Arsenic	4.2	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:54	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:54	7439-92-1	
Selenium	0.84 I	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:54	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:09	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 01:56	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 01:56	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 01:56	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 01:56	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 01:56	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 01:56	78-93-3	J(M1)
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 01:56	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-26 **Lab ID: 35394739002** Collected: 05/29/18 08:53 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 01:56	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 01:56	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 01:56	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 01:56	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 01:56	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 01:56	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 01:56	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 01:56	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 01:56	591-78-6	J(M1)
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 01:56	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 01:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 01:56	108-10-1	J(M1)
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 01:56	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 01:56	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 01:56	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 01:56	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 01:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		05/31/18 01:56	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-135		1		05/31/18 01:56	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		05/31/18 01:56	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	229	mg/L	5.0	5.0	1		05/30/18 15:10
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	18.7	mg/L	5.0	2.5	1		05/30/18 13:03	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-26		Lab ID: 35394739002		Collected: 05/29/18 08:53		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.22	mg/L	0.050	0.035	1		06/06/18 17:16	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	2.0	mg/L	0.050	0.025	1		05/30/18 09:06	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-27		Lab ID: 35394739003		Collected: 05/29/18 09:48		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
		Analytical Method:							
Field pH	6.53	Std. Units			1		05/29/18 09:48		
Field Temperature	25.3	deg C			1		05/29/18 09:48		
Field Specific Conductance	579	umhos/cm			1		05/29/18 09:48		
Oxygen, Dissolved	0.96	mg/L			1		05/29/18 09:48	7782-44-7	
Turbidity	15.4	NTU			1		05/29/18 09:48		
8011 GCS EDB and DBCP									
		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 17:42	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	05/31/18 04:00	05/31/18 17:42	106-93-4	
6010 MET ICP									
		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	13.0	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:03	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:03	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:03	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:03	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:03	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:03	7440-50-8	
Iron	1330	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:03	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:03	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:03	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:03	7440-22-4	
Sodium	11.9	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:03	7440-23-5	
Vanadium	10.4	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:03	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:03	7440-66-6	
6020 MET ICPMS									
		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:56	7440-36-0	
Arsenic	4.4	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:56	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:56	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:56	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:56	7440-28-0	
7470 Mercury									
		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:11	7439-97-6	
8260 MSV									
		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 04:30	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:30	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 04:30	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 04:30	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 04:30	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:30	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:30	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-27 **Lab ID: 35394739003** Collected: 05/29/18 09:48 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 04:30	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 04:30	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 04:30	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 04:30	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 04:30	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:30	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 04:30	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 04:30	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:30	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 04:30	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:30	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 04:30	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 04:30	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 04:30	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:30	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 04:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		05/31/18 04:30	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		05/31/18 04:30	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		05/31/18 04:30	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	354	mg/L	5.0	5.0	1		05/30/18 15:10
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	26.3	mg/L	5.0	2.5	1		05/30/18 13:26	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-27		Lab ID: 35394739003		Collected: 05/29/18 09:48		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/06/18 17:17	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.059	mg/L	0.050	0.025	1		05/30/18 09:08	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-3 Lab ID: 35394739004 Collected: 05/29/18 10:31 Received: 05/29/18 16:10 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.63	Std. Units			1		05/29/18 10:31		
Field Temperature	25.6	deg C			1		05/29/18 10:31		
Field Specific Conductance	584	umhos/cm			1		05/29/18 10:31		
Oxygen, Dissolved	3.00	mg/L			1		05/29/18 10:31	7782-44-7	
Turbidity	5.90	NTU			1		05/29/18 10:31		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	05/31/18 04:00	05/31/18 17:57	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	05/31/18 04:00	05/31/18 17:57	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	13.5	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:06	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:06	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:06	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:06	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:06	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:06	7440-50-8	
Iron	201	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:06	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:06	7440-02-0	
Selenium	12.6 I	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:06	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:06	7440-22-4	
Sodium	5.3	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:06	7440-23-5	
Vanadium	12.1	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:06	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:06	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	1.8	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:59	7440-36-0	
Arsenic	2.1	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:59	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:59	7439-92-1	
Selenium	10.4	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:59	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 15:59	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:13	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 04:55	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:55	107-13-1	
Benzene	0.14 I	ug/L	1.0	0.10	1		05/31/18 04:55	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 04:55	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 04:55	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:55	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:55	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-3 **Lab ID: 35394739004** Collected: 05/29/18 10:31 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 04:55	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 04:55	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 04:55	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 04:55	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 04:55	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:55	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 04:55	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 04:55	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:55	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 04:55	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 04:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 04:55	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 04:55	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 04:55	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 04:55	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 04:55	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 04:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		05/31/18 04:55	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		05/31/18 04:55	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		05/31/18 04:55	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	405	mg/L	5.0	5.0	1	05/30/18 15:11
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	12.9	mg/L	5.0	2.5	1	05/30/18 13:50	16887-00-6
----------	-------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-3		Lab ID: 35394739004		Collected: 05/29/18 10:31		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.054	mg/L	0.050	0.035	1		06/06/18 17:20	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	3.8	mg/L	0.050	0.025	1		05/30/18 09:09	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-4		Lab ID: 35394739005		Collected: 05/29/18 11:16		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.47	Std. Units			1		05/29/18 11:16		
Field Temperature	24.8	deg C			1		05/29/18 11:16		
Field Specific Conductance	392.8	umhos/cm			1		05/29/18 11:16		
Oxygen, Dissolved	2.53	mg/L			1		05/29/18 11:16	7782-44-7	
Turbidity	5.54	NTU			1		05/29/18 11:16		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 18:12	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	05/31/18 04:00	05/31/18 18:12	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	11.4	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:09	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:09	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:09	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:09	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:09	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:09	7440-50-8	
Iron	292	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:09	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:09	7440-02-0	
Selenium	9.8 I	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:09	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:09	7440-22-4	
Sodium	3.7	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:09	7440-23-5	
Vanadium	19.6	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:09	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:09	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.92 I	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:32	7440-36-0	
Arsenic	1.1	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:32	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:32	7439-92-1	
Selenium	7.6	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:32	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:15	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 05:21	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:21	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 05:21	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 05:21	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 05:21	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:21	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:21	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-4 **Lab ID: 35394739005** Collected: 05/29/18 11:16 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 05:21	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 05:21	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 05:21	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 05:21	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 05:21	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:21	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 05:21	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 05:21	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:21	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 05:21	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 05:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:21	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 05:21	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 05:21	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 05:21	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:21	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 05:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		05/31/18 05:21	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-135		1		05/31/18 05:21	17060-07-0	
Toluene-d8 (S)	110	%	89-112		1		05/31/18 05:21	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	247	mg/L	5.0	5.0	1	05/30/18 15:11
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	7.3	mg/L	5.0	2.5	1	05/30/18 14:13	16887-00-6
----------	------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-4		Lab ID: 35394739005		Collected: 05/29/18 11:16		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.14	mg/L	0.050	0.035	1		06/06/18 17:22	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	8.2	mg/L	0.25	0.12	5		05/30/18 09:55	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-5		Lab ID: 35394739006		Collected: 05/29/18 12:03		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.56	Std. Units			1		05/29/18 12:03		
Field Temperature	25.6	deg C			1		05/29/18 12:03		
Field Specific Conductance	514	umhos/cm			1		05/29/18 12:03		
Oxygen, Dissolved	2.22	mg/L			1		05/29/18 12:03	7782-44-7	
Turbidity	13.6	NTU			1		05/29/18 12:03		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 18:27	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	05/31/18 04:00	05/31/18 18:27	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	14.9	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:12	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:12	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:12	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:12	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:12	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:12	7440-50-8	
Iron	1490	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:12	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:12	7440-02-0	
Selenium	12.5 I	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:12	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:12	7440-22-4	
Sodium	8.5	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:12	7440-23-5	
Vanadium	25.8	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:12	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:12	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	1.3	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:35	7440-36-0	
Arsenic	1.8	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:35	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:35	7439-92-1	
Selenium	10.4	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:35	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:17	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 05:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:46	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 05:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 05:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 05:46	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:46	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:46	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-5 **Lab ID:** 35394739006 Collected: 05/29/18 12:03 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 05:46	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 05:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 05:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 05:46	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 05:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 05:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 05:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:46	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 05:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 05:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 05:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 05:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 05:46	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 05:46	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 05:46	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 05:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		05/31/18 05:46	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-135		1		05/31/18 05:46	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		05/31/18 05:46	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	378	mg/L	5.0	5.0	1	05/30/18 15:11
------------------------	-----	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	13.5	mg/L	5.0	2.5	1	05/30/18 14:37	16887-00-6
----------	------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-5		Lab ID: 35394739006		Collected: 05/29/18 12:03		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.21	mg/L	0.050	0.035	1		06/06/18 17:24	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	9.7	mg/L	0.25	0.12	5		05/30/18 09:56	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-6		Lab ID: 35394739007		Collected: 05/29/18 12:53		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.10	Std. Units			1		05/29/18 12:53		
Field Temperature	25.6	deg C			1		05/29/18 12:53		
Field Specific Conductance	880	umhos/cm			1		05/29/18 12:53		
Oxygen, Dissolved	4.23	mg/L			1		05/29/18 12:53	7782-44-7	
Turbidity	2.79	NTU			1		05/29/18 12:53		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.020	0.0062	1	05/31/18 04:00	05/31/18 18:42	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	05/31/18 04:00	05/31/18 18:42	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	12.0	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:14	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:14	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:14	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:14	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:14	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:14	7440-50-8	
Iron	185	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:14	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:14	7440-02-0	
Selenium	33.3	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:14	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:14	7440-22-4	
Sodium	3.8	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:14	7440-23-5	
Vanadium	11.1	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:14	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:14	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	1.5	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:37	7440-36-0	
Arsenic	2.5	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:37	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:37	7439-92-1	
Selenium	30.5	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:37	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:24	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 06:12	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:12	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 06:12	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 06:12	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 06:12	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:12	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:12	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-6 **Lab ID: 35394739007** Collected: 05/29/18 12:53 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 06:12	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 06:12	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 06:12	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 06:12	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 06:12	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:12	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 06:12	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 06:12	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:12	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 06:12	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 06:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:12	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 06:12	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 06:12	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 06:12	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:12	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 06:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		05/31/18 06:12	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		05/31/18 06:12	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		05/31/18 06:12	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	583	mg/L	5.0	5.0	1		05/30/18 15:12
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	5.3	mg/L	5.0	2.5	1		05/30/18 15:00	16887-00-6
----------	------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-6		Lab ID: 35394739007		Collected: 05/29/18 12:53		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/06/18 17:28	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	1.9	mg/L	0.050	0.025	1		05/30/18 09:18	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-7		Lab ID: 35394739008		Collected: 05/29/18 13:35		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.64	Std. Units			1		05/29/18 13:35		
Field Temperature	26.0	deg C			1		05/29/18 13:35		
Field Specific Conductance	621	umhos/cm			1		05/29/18 13:35		
Oxygen, Dissolved	3.51	mg/L			1		05/29/18 13:35	7782-44-7	
Turbidity	2.50	NTU			1		05/29/18 13:35		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 18:57	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	05/31/18 04:00	05/31/18 18:57	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	12.8	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:17	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:17	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:17	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:17	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:17	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:17	7440-50-8	
Iron	110	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:17	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:17	7440-02-0	
Selenium	33.5	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:17	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:17	7440-22-4	
Sodium	8.4	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:17	7440-23-5	
Vanadium	25.2	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:17	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:17	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	1.6	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:40	7440-36-0	
Arsenic	2.4	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:40	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:40	7439-92-1	
Selenium	29.6	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:40	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:26	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 06:37	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:37	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 06:37	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 06:37	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 06:37	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:37	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:37	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-7 **Lab ID: 35394739008** Collected: 05/29/18 13:35 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 06:37	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 06:37	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 06:37	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 06:37	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 06:37	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:37	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 06:37	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 06:37	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:37	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 06:37	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 06:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 06:37	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 06:37	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 06:37	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 06:37	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 06:37	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 06:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	89-111		1		05/31/18 06:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		05/31/18 06:37	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		05/31/18 06:37	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	466	mg/L	5.0	5.0	1		05/30/18 15:12
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	11.8	mg/L	5.0	2.5	1		05/30/18 15:23	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-7		Lab ID: 35394739008		Collected: 05/29/18 13:35		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.14	mg/L	0.050	0.035	1		06/06/18 16:50	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	1.1	mg/L	0.050	0.025	1		05/30/18 09:19	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-8 Lab ID: 35394739009 Collected: 05/29/18 14:09 Received: 05/29/18 16:10 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.64	Std. Units			1		05/29/18 14:09		
Field Temperature	26.1	deg C			1		05/29/18 14:09		
Field Specific Conductance	696	umhos/cm			1		05/29/18 14:09		
Oxygen, Dissolved	0.17	mg/L			1		05/29/18 14:09	7782-44-7	
Turbidity	2.20	NTU			1		05/29/18 14:09		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 19:12	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	05/31/18 04:00	05/31/18 19:12	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	18.1	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:20	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:20	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:20	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:20	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:20	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:20	7440-50-8	
Iron	45.9	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:20	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:20	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:20	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:20	7440-22-4	
Sodium	12.7	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:20	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:20	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:20	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:43	7440-36-0	
Arsenic	5.4	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:43	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:43	7439-92-1	
Selenium	0.92 I	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:43	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:43	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:28	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 07:02	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:02	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		05/31/18 07:02	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 07:02	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 07:02	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:02	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:02	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-8 **Lab ID: 35394739009** Collected: 05/29/18 14:09 Received: 05/29/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 07:02	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 07:02	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 07:02	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 07:02	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 07:02	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:02	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 07:02	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 07:02	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:02	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 07:02	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 07:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:02	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 07:02	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 07:02	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 07:02	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:02	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 07:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	89-111		1		05/31/18 07:02	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-135		1		05/31/18 07:02	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		05/31/18 07:02	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	490	mg/L	5.0	5.0	1	05/30/18 15:14
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	13.9	mg/L	5.0	2.5	1	05/30/18 15:47	16887-00-6
----------	-------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-8		Lab ID: 35394739009		Collected: 05/29/18 14:09		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.82	mg/L	0.050	0.035	1		06/06/18 16:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.15	mg/L	0.050	0.025	1		05/30/18 09:20	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-8 Dup Lab ID: 35394739010 Collected: 05/29/18 14:09 Received: 05/29/18 16:10 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.64	Std. Units			1		05/29/18 14:09		
Field Temperature	26.1	deg C			1		05/29/18 14:09		
Field Specific Conductance	696	umhos/cm			1		05/29/18 14:09		
Oxygen, Dissolved	0.17	mg/L			1		05/29/18 14:09	7782-44-7	
Turbidity	2.2	NTU			1		05/29/18 14:09		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	05/31/18 04:00	05/31/18 19:27	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	05/31/18 04:00	05/31/18 19:27	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	17.2	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:23	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:23	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:23	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:23	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:23	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:23	7440-50-8	
Iron	42.6	ug/L	40.0	20.0	1	05/30/18 00:16	05/30/18 11:23	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:23	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	05/30/18 00:16	05/30/18 11:23	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	05/30/18 00:16	05/30/18 11:23	7440-22-4	
Sodium	12.6	mg/L	1.0	0.50	1	05/30/18 00:16	05/30/18 11:23	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	05/30/18 00:16	05/30/18 11:23	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	05/30/18 00:16	05/30/18 11:23	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:45	7440-36-0	
Arsenic	5.8	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:45	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:45	7439-92-1	
Selenium	0.55 I	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:45	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	05/30/18 00:18	05/31/18 16:45	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	05/31/18 16:12	06/01/18 18:30	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		05/31/18 07:28	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:28	107-13-1	
Benzene	0.16 I	ug/L	1.0	0.10	1		05/31/18 07:28	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		05/31/18 07:28	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		05/31/18 07:28	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:28	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:28	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-8 Dup **Lab ID:** 35394739010 **Collected:** 05/29/18 14:09 **Received:** 05/29/18 16:10 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		05/31/18 07:28	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 07:28	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		05/31/18 07:28	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		05/31/18 07:28	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		05/31/18 07:28	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:28	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 07:28	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		05/31/18 07:28	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:28	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		05/31/18 07:28	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		05/31/18 07:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		05/31/18 07:28	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		05/31/18 07:28	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		05/31/18 07:28	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		05/31/18 07:28	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		05/31/18 07:28	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		05/31/18 07:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		05/31/18 07:28	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-135		1		05/31/18 07:28	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		05/31/18 07:28	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	473	mg/L	5.0	5.0	1	05/30/18 15:14
------------------------	-----	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	14.1	mg/L	5.0	2.5	1	05/30/18 16:10	16887-00-6
----------	------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: GW-8 Dup		Lab ID: 35394739010		Collected: 05/29/18 14:09		Received: 05/29/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.83	mg/L	0.050	0.035	1		06/06/18 16:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.034 I	mg/L	0.050	0.025	1		05/30/18 09:22	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Sample: Trip Blank		Lab ID: 35394739011	Collected: 05/29/18 08:05	Received: 05/29/18 16:10	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	05/31/18 04:00	05/31/18 19:41	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	05/31/18 04:00	05/31/18 19:41	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	451339	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2444975	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	06/01/18 17:39	

LABORATORY CONTROL SAMPLE: 2444976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2444977 2444978

Parameter	Units	35394251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.0	99	98	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	450833	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2442240	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	05/30/18 10:46	
Beryllium	ug/L	0.50 U	1.0	0.50	05/30/18 10:46	
Cadmium	ug/L	0.50 U	1.0	0.50	05/30/18 10:46	
Chromium	ug/L	2.5 U	5.0	2.5	05/30/18 10:46	
Cobalt	ug/L	5.0 U	10.0	5.0	05/30/18 10:46	
Copper	ug/L	2.5 U	5.0	2.5	05/30/18 10:46	
Iron	ug/L	20.0 U	40.0	20.0	05/30/18 10:46	
Nickel	ug/L	2.5 U	5.0	2.5	05/30/18 10:46	
Selenium	ug/L	7.5 U	15.0	7.5	05/30/18 10:46	
Silver	ug/L	2.5 U	5.0	2.5	05/30/18 10:46	
Sodium	mg/L	0.50 U	1.0	0.50	05/30/18 10:46	
Vanadium	ug/L	5.0 U	10.0	5.0	05/30/18 10:46	
Zinc	ug/L	10.0 U	20.0	10.0	05/30/18 10:46	

LABORATORY CONTROL SAMPLE: 2442241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	262	105	80-120	
Beryllium	ug/L	25	26.0	104	80-120	
Cadmium	ug/L	25	26.5	106	80-120	
Chromium	ug/L	250	265	106	80-120	
Cobalt	ug/L	250	266	106	80-120	
Copper	ug/L	250	255	102	80-120	
Iron	ug/L	2500	2640	106	80-120	
Nickel	ug/L	250	265	106	80-120	
Selenium	ug/L	250	264	106	80-120	
Silver	ug/L	25	26.2	105	80-120	
Sodium	mg/L	12.5	13.1	105	80-120	
Vanadium	ug/L	250	261	104	80-120	
Zinc	ug/L	1250	1320	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2442242 2442243

Parameter	Units	35394739010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	17.2	250	250	270	279	101	105	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	25.0	26.1	100	104	75-125	4	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2442242 2442243												
Parameter	Units	35394739010		MS	MSD	2442243		MS	MSD	% Rec	Max	
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Cadmium	ug/L	0.50 U		25	25	24.7	25.7	99	103	75-125	4	20
Chromium	ug/L	2.5 U		250	250	252	262	101	105	75-125	4	20
Cobalt	ug/L	5.0 U		250	250	253	263	101	105	75-125	4	20
Copper	ug/L	2.5 U		250	250	247	258	99	103	75-125	4	20
Iron	ug/L	42.6		2500	2500	2590	2680	102	106	75-125	3	20
Nickel	ug/L	2.5 U		250	250	250	260	100	104	75-125	4	20
Selenium	ug/L	7.5 U		250	250	188	198	75	79	75-125	5	20
Silver	ug/L	2.5 U		25	25	25.0	26.0	99	103	75-125	4	20
Sodium	mg/L	12.6		12.5	12.5	25.7	26.6	105	112	75-125	3	20
Vanadium	ug/L	5.0 U		250	250	252	262	100	104	75-125	4	20
Zinc	ug/L	10.0 U		1250	1250	1230	1270	98	102	75-125	4	20

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	450832	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2442236	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	05/31/18 15:30	
Arsenic	ug/L	0.50 U	1.0	0.50	05/31/18 15:30	
Lead	ug/L	0.50 U	1.0	0.50	05/31/18 15:30	
Selenium	ug/L	0.50 U	1.0	0.50	05/31/18 15:30	
Thallium	ug/L	0.50 U	1.0	0.50	05/31/18 15:30	

LABORATORY CONTROL SAMPLE: 2442237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.8	100	80-120	
Arsenic	ug/L	50	48.3	97	80-120	
Lead	ug/L	50	51.6	103	80-120	
Selenium	ug/L	50	46.2	92	80-120	
Thallium	ug/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2442238 2442239

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.0	51.7	99	103	75-125	3	20	
Arsenic	ug/L	0.50 U	50	50	49.0	50.8	97	101	75-125	4	20	
Lead	ug/L	0.50 U	50	50	52.3	53.3	104	106	75-125	2	20	
Selenium	ug/L	0.62 I	50	50	46.9	48.6	93	96	75-125	4	20	
Thallium	ug/L	0.50 U	50	50	51.9	52.3	104	105	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	451111	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2443865	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	05/30/18 23:22	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	05/30/18 23:22	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
2-Butanone (MEK)	ug/L	9.7 I	10.0	5.0	05/30/18 23:22	
2-Hexanone	ug/L	5.0 U	10.0	5.0	05/30/18 23:22	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	05/30/18 23:22	
Acetone	ug/L	10.0 U	20.0	10.0	05/30/18 23:22	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	05/30/18 23:22	
Benzene	ug/L	0.10 U	1.0	0.10	05/30/18 23:22	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	05/30/18 23:22	
Bromoform	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Bromomethane	ug/L	0.50 U	5.0	0.50	05/30/18 23:22	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	05/30/18 23:22	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	05/30/18 23:22	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Chloroethane	ug/L	0.50 U	10.0	0.50	05/30/18 23:22	
Chloroform	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Chloromethane	ug/L	0.62 U	1.0	0.62	05/30/18 23:22	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	05/30/18 23:22	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	05/30/18 23:22	
Dibromomethane	ug/L	0.50 U	2.0	0.50	05/30/18 23:22	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Iodomethane	ug/L	0.50 U	10.0	0.50	05/30/18 23:22	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	05/30/18 23:22	
Styrene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Toluene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	05/30/18 23:22	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	05/30/18 23:22	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

METHOD BLANK: 2443865

Matrix: Water

Associated Lab Samples: 35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	05/30/18 23:22	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	05/30/18 23:22	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	05/30/18 23:22	
1,2-Dichloroethane-d4 (S)	%	106	75-135		05/30/18 23:22	
4-Bromofluorobenzene (S)	%	97	89-111		05/30/18 23:22	
Toluene-d8 (S)	%	104	89-112		05/30/18 23:22	

LABORATORY CONTROL SAMPLE: 2443866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	19.8	99	65-134	
1,2,3-Trichloropropane	ug/L	20	19.1	95	65-135	
1,2-Dichlorobenzene	ug/L	20	21.1	105	70-130	
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
1,2-Dichloropropane	ug/L	20	19.9	99	70-130	
1,4-Dichlorobenzene	ug/L	20	21.3	106	70-130	
2-Butanone (MEK)	ug/L	40	30.3	76	61-129	
2-Hexanone	ug/L	40	31.3	78	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.2	90	70-130	
Acetone	ug/L	40	30.8	77	44-155	
Acrylonitrile	ug/L	200	189	95	59-138	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	20.5	102	70-130	
Bromodichloromethane	ug/L	20	20.8	104	70-130	
Bromoform	ug/L	20	18.8	94	62-129	
Bromomethane	ug/L	20	17.7	89	10-179	
Carbon disulfide	ug/L	20	19.4	97	40-156	
Carbon tetrachloride	ug/L	20	20.1	100	66-127	
Chlorobenzene	ug/L	20	20.5	102	70-130	
Chloroethane	ug/L	20	21.8	109	57-142	
Chloroform	ug/L	20	19.4	97	70-130	
Chloromethane	ug/L	20	20.6	103	45-150	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	20.4	102	70-130	
Dibromomethane	ug/L	20	19.8	99	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

LABORATORY CONTROL SAMPLE: 2443866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	19.1	96	70-130	
Iodomethane	ug/L	40	34.5	86	21-150	
Methylene Chloride	ug/L	20	21.7	109	65-127	
Styrene	ug/L	20	21.0	105	70-130	
Tetrachloroethene	ug/L	20	17.7	88	48-155	
Toluene	ug/L	20	19.6	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.1	95	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.1	96	46-138	
Trichloroethene	ug/L	20	19.6	98	69-129	
Trichlorofluoromethane	ug/L	20	21.0	105	60-144	
Vinyl acetate	ug/L	20	20.7	103	70-130	
Vinyl chloride	ug/L	20	21.6	108	67-136	
Xylene (Total)	ug/L	60	59.4	99	70-130	
1,2-Dichloroethane-d4 (S)	%			102	75-135	
4-Bromofluorobenzene (S)	%			97	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2445168

Parameter	Units	35394739002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	17.4	87	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.2	86	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.1	90	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	19.4	97	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.4	87	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.4	92	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	17.2	86	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	17.5	87	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.8	94	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	23.7	59	61-129 J(M1)	
2-Hexanone	ug/L	5.0 U	40	26.7	67	68-131 J(M1)	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	26.7	67	70-130 J(M1)	
Acetone	ug/L	10.0 U	40	22.9	57	44-155	
Acrylonitrile	ug/L	5.0 U	200	162	81	59-138	
Benzene	ug/L	0.10 U	20	17.9	90	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.4	92	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.0	90	70-130	
Bromoform	ug/L	0.50 U	20	16.1	80	62-129	
Bromomethane	ug/L	0.50 U	20	14.1	70	10-179	
Carbon disulfide	ug/L	5.0 U	20	16.5	83	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	18.3	92	66-127	
Chlorobenzene	ug/L	0.50 U	20	18.3	92	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

MATRIX SPIKE SAMPLE: 2445168		35394739002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloroethane	ug/L	0.50 U	20	17.6	88	57-142	
Chloroform	ug/L	0.50 U	20	18.0	90	70-130	
Chloromethane	ug/L	0.62 U	20	17.9	90	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.0	80	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.0	85	70-130	
Dibromomethane	ug/L	0.50 U	20	17.4	87	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.3	87	70-130	
Iodomethane	ug/L	0.50 U	40	38.0	95	21-150	
Methylene Chloride	ug/L	2.5 U	20	19.5	98	65-127	
Styrene	ug/L	0.50 U	20	17.8	89	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.0	75	48-155	
Toluene	ug/L	0.50 U	20	17.4	87	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.6	88	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.8	84	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	14.4	72	46-138	
Trichloroethene	ug/L	0.50 U	20	18.0	90	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	15.9	79	60-144	
Vinyl acetate	ug/L	1.0 U	20	14.4	72	70-130	
Vinyl chloride	ug/L	0.50 U	20	18.5	93	67-136	
Xylene (Total)	ug/L	1.0 U	60	51.9	87	70-130	
1,2-Dichloroethane-d4 (S)	%				104	75-135	
4-Bromofluorobenzene (S)	%				96	89-111	
Toluene-d8 (S)	%				99	89-112	

SAMPLE DUPLICATE: 2445167

Parameter	Units	35394739001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.11 I		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

SAMPLE DUPLICATE: 2445167

Parameter	Units	35394739001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%		106	4	40	
4-Bromofluorobenzene (S)	%		93	2	40	
Toluene-d8 (S)	%		105	2	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35394739

QC Batch: 452088 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35394739001

METHOD BLANK: 2448571 Matrix: Water
Associated Lab Samples: 35394739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/04/18 22:48	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/04/18 22:48	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
2-Butanone (MEK)	ug/L	84.4	10.0	5.0	06/04/18 22:48	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Acetone	ug/L	16.4 I	20.0	10.0	06/04/18 22:48	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Benzene	ug/L	0.10 U	1.0	0.10	06/04/18 22:48	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/04/18 22:48	
Bromoform	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/04/18 22:48	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/04/18 22:48	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/04/18 22:48	
Chloroform	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/04/18 22:48	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/04/18 22:48	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/04/18 22:48	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/04/18 22:48	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/04/18 22:48	
m&p-Xylene	ug/L	1.0 U	2.0	1.0	06/04/18 22:48	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/04/18 22:48	
o-Xylene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Styrene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Toluene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/04/18 22:48	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35394739

METHOD BLANK: 2448571

Matrix: Water

Associated Lab Samples: 35394739001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/04/18 22:48	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/04/18 22:48	
1,2-Dichloroethane-d4 (S)	%	116	75-135		06/04/18 22:48	
4-Bromofluorobenzene (S)	%	93	89-111		06/04/18 22:48	
Toluene-d8 (S)	%	113	89-112		06/04/18 22:48	J(S0)

LABORATORY CONTROL SAMPLE: 2448572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.3	96	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	65-134	
1,2,3-Trichloropropane	ug/L	20	18.4	92	65-135	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	40	28.9	72	61-129	
2-Hexanone	ug/L	40	33.6	84	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	33.8	85	70-130	
Acetone	ug/L	40	30.7	77	44-155	
Acrylonitrile	ug/L	200	180	90	59-138	
Benzene	ug/L	20	19.7	99	70-130	
Bromochloromethane	ug/L	20	19.3	97	70-130	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	17.6	88	62-129	
Bromomethane	ug/L	20	18.1	90	10-179	
Carbon disulfide	ug/L	20	19.4	97	40-156	
Carbon tetrachloride	ug/L	20	19.3	96	66-127	
Chlorobenzene	ug/L	20	19.9	100	70-130	
Chloroethane	ug/L	20	22.5	113	57-142	
Chloroform	ug/L	20	19.7	98	70-130	
Chloromethane	ug/L	20	21.6	108	45-150	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	19.2	96	70-130	
Dibromomethane	ug/L	20	18.9	94	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

LABORATORY CONTROL SAMPLE: 2448572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	18.7	94	70-130	
Iodomethane	ug/L	40	44.0	110	21-150	
m&p-Xylene	ug/L	40	39.2	98	70-130	
Methylene Chloride	ug/L	20	23.2	116	65-127	
o-Xylene	ug/L	20	18.9	95	70-130	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	17.1	85	48-155	
Toluene	ug/L	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.5	98	46-138	
Trichloroethene	ug/L	20	19.1	95	69-129	
Trichlorofluoromethane	ug/L	20	21.1	106	60-144	
Vinyl acetate	ug/L	20	20.4	102	70-130	
Vinyl chloride	ug/L	20	22.7	114	67-136	
Xylene (Total)	ug/L	60	58.1	97	70-130	
1,2-Dichloroethane-d4 (S)	%			101	75-135	
4-Bromofluorobenzene (S)	%			96	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2449824

Parameter	Units	35395452002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.0	90	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.3	97	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	20.7	103	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.7	94	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.8	98	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.7	92	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.8	94	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.3	100	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	26.7	67	61-129	
2-Hexanone	ug/L	5.0 U	40	30.0	75	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	29.0	72	70-130	
Acetone	ug/L	10.0 U	40	26.2	65	44-155	
Acrylonitrile	ug/L	5.0 U	200	172	86	59-138	
Benzene	ug/L	0.10 U	20	19.1	96	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.2	96	70-130	
Bromodichloromethane	ug/L	0.27 U	20	19.6	98	70-130	
Bromoform	ug/L	0.50 U	20	16.7	83	62-129	
Bromomethane	ug/L	0.50 U	20	13.3	67	10-179	
Carbon disulfide	ug/L	5.0 U	20	16.7	82	40-156	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

MATRIX SPIKE SAMPLE: 2449824

Parameter	Units	35395452002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	0.50 U	20	19.6	98	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.3	96	70-130	
Chloroethane	ug/L	0.50 U	20	24.7	124	57-142	
Chloroform	ug/L	0.50 U	20	19.5	97	70-130	
Chloromethane	ug/L	0.62 U	20	21.2	106	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.1	86	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.6	88	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	89	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.7	93	70-130	
Iodomethane	ug/L	0.50 U	40	28.8	72	21-150	
m&p-Xylene	ug/L	1.0 U	40	38.6	96	70-130	
Methylene Chloride	ug/L	2.5 U	20	20.8	104	65-127	
o-Xylene	ug/L	0.50 U	20	18.3	91	70-130	
Styrene	ug/L	0.50 U	20	19.5	97	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.5	77	48-155	
Toluene	ug/L	0.50 U	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.7	93	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.7	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	15.9	79	46-138	
Trichloroethene	ug/L	0.50 U	20	18.4	92	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	22.3	112	60-144	
Vinyl acetate	ug/L	1.0 U	20	15.1	76	70-130	
Vinyl chloride	ug/L	0.50 U	20	23.3	116	67-136	
Xylene (Total)	ug/L	1.0 U	60	56.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%				106	75-135	
4-Bromofluorobenzene (S)	%				96	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2449823

Parameter	Units	35395452001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

SAMPLE DUPLICATE: 2449823

Parameter	Units	35395452001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
m&p-Xylene	ug/L	1.0 U	1.0 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
o-Xylene	ug/L	0.50 U	0.50 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	103	101	1	40	
4-Bromofluorobenzene (S)	%	94	96	3	40	
Toluene-d8 (S)	%	106	103	3	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	451052	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010, 35394739011		

METHOD BLANK:	2443139	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010, 35394739011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	05/31/18 14:43	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	05/31/18 14:43	

LABORATORY CONTROL SAMPLE: 2443140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.21	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.21	82	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2443942 2443943

Parameter	Units	35394739011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.48	0.53	109	120	60-140	9	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	.44	.44	0.49	0.50	110	113	60-140	2	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	450936	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Diss. Solids Tampa
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2442550	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	05/30/18 15:08	

LABORATORY CONTROL SAMPLE: 2442551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 2442552

Parameter	Units	35394705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	156	160	3	5	

SAMPLE DUPLICATE: 2442553

Parameter	Units	35394739010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	473	472	0	5	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	450913	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2442474	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	05/30/18 11:06	

LABORATORY CONTROL SAMPLE: 2442475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2442730 2442731

Parameter	Units	35394739001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.3	50	50	63.5	63.6	100	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2442732 2442733

Parameter	Units	35394786001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.6	50	50	61.0	60.7	97	96	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	452666	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2451809	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	06/06/18 15:54	

LABORATORY CONTROL SAMPLE: 2451810						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	102	90-110	

MATRIX SPIKE SAMPLE:		2451812					
		35394739001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.0	102	90-110	

SAMPLE DUPLICATE: 2451811						
Parameter	Units	35394739001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 U		20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

QC Batch:	450851	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

METHOD BLANK:	2442291	Matrix:	Water
Associated Lab Samples:	35394739001, 35394739002, 35394739003, 35394739004, 35394739005, 35394739006, 35394739007, 35394739008, 35394739009, 35394739010		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	05/30/18 08:52	

SAMPLE DUPLICATE: 2442293

Parameter	Units	35394666001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	6.8	6.6	4	20	

SAMPLE DUPLICATE: 2442295

Parameter	Units	35394739006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	9.7	9.5	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

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

J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35394739001	GW-25				
35394739002	GW-26				
35394739003	GW-27				
35394739004	GW-3				
35394739005	GW-4				
35394739006	GW-5				
35394739007	GW-6				
35394739008	GW-7				
35394739009	GW-8				
35394739010	GW-8 Dup				
35394739001	GW-25	EPA 8011	451052	EPA 8011	451155
35394739002	GW-26	EPA 8011	451052	EPA 8011	451155
35394739003	GW-27	EPA 8011	451052	EPA 8011	451155
35394739004	GW-3	EPA 8011	451052	EPA 8011	451155
35394739005	GW-4	EPA 8011	451052	EPA 8011	451155
35394739006	GW-5	EPA 8011	451052	EPA 8011	451155
35394739007	GW-6	EPA 8011	451052	EPA 8011	451155
35394739008	GW-7	EPA 8011	451052	EPA 8011	451155
35394739009	GW-8	EPA 8011	451052	EPA 8011	451155
35394739010	GW-8 Dup	EPA 8011	451052	EPA 8011	451155
35394739011	Trip Blank	EPA 8011	451052	EPA 8011	451155
35394739001	GW-25	EPA 3010	450833	EPA 6010	450841
35394739002	GW-26	EPA 3010	450833	EPA 6010	450841
35394739003	GW-27	EPA 3010	450833	EPA 6010	450841
35394739004	GW-3	EPA 3010	450833	EPA 6010	450841
35394739005	GW-4	EPA 3010	450833	EPA 6010	450841
35394739006	GW-5	EPA 3010	450833	EPA 6010	450841
35394739007	GW-6	EPA 3010	450833	EPA 6010	450841
35394739008	GW-7	EPA 3010	450833	EPA 6010	450841
35394739009	GW-8	EPA 3010	450833	EPA 6010	450841
35394739010	GW-8 Dup	EPA 3010	450833	EPA 6010	450841
35394739001	GW-25	EPA 3010	450832	EPA 6020	450840
35394739002	GW-26	EPA 3010	450832	EPA 6020	450840
35394739003	GW-27	EPA 3010	450832	EPA 6020	450840
35394739004	GW-3	EPA 3010	450832	EPA 6020	450840
35394739005	GW-4	EPA 3010	450832	EPA 6020	450840
35394739006	GW-5	EPA 3010	450832	EPA 6020	450840
35394739007	GW-6	EPA 3010	450832	EPA 6020	450840
35394739008	GW-7	EPA 3010	450832	EPA 6020	450840
35394739009	GW-8	EPA 3010	450832	EPA 6020	450840
35394739010	GW-8 Dup	EPA 3010	450832	EPA 6020	450840
35394739001	GW-25	EPA 7470	451339	EPA 7470	451420
35394739002	GW-26	EPA 7470	451339	EPA 7470	451420
35394739003	GW-27	EPA 7470	451339	EPA 7470	451420
35394739004	GW-3	EPA 7470	451339	EPA 7470	451420
35394739005	GW-4	EPA 7470	451339	EPA 7470	451420
35394739006	GW-5	EPA 7470	451339	EPA 7470	451420

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35394739007	GW-6	EPA 7470	451339	EPA 7470	451420
35394739008	GW-7	EPA 7470	451339	EPA 7470	451420
35394739009	GW-8	EPA 7470	451339	EPA 7470	451420
35394739010	GW-8 Dup	EPA 7470	451339	EPA 7470	451420
35394739001	GW-25	EPA 8260	451111		
35394739001	GW-25	EPA 8260	452088		
35394739002	GW-26	EPA 8260	451111		
35394739003	GW-27	EPA 8260	451111		
35394739004	GW-3	EPA 8260	451111		
35394739005	GW-4	EPA 8260	451111		
35394739006	GW-5	EPA 8260	451111		
35394739007	GW-6	EPA 8260	451111		
35394739008	GW-7	EPA 8260	451111		
35394739009	GW-8	EPA 8260	451111		
35394739010	GW-8 Dup	EPA 8260	451111		
35394739001	GW-25	SM 2540C	450936		
35394739002	GW-26	SM 2540C	450936		
35394739003	GW-27	SM 2540C	450936		
35394739004	GW-3	SM 2540C	450936		
35394739005	GW-4	SM 2540C	450936		
35394739006	GW-5	SM 2540C	450936		
35394739007	GW-6	SM 2540C	450936		
35394739008	GW-7	SM 2540C	450936		
35394739009	GW-8	SM 2540C	450936		
35394739010	GW-8 Dup	SM 2540C	450936		
35394739001	GW-25	EPA 300.0	450913		
35394739002	GW-26	EPA 300.0	450913		
35394739003	GW-27	EPA 300.0	450913		
35394739004	GW-3	EPA 300.0	450913		
35394739005	GW-4	EPA 300.0	450913		
35394739006	GW-5	EPA 300.0	450913		
35394739007	GW-6	EPA 300.0	450913		
35394739008	GW-7	EPA 300.0	450913		
35394739009	GW-8	EPA 300.0	450913		
35394739010	GW-8 Dup	EPA 300.0	450913		
35394739001	GW-25	EPA 350.1	452666		
35394739002	GW-26	EPA 350.1	452666		
35394739003	GW-27	EPA 350.1	452666		
35394739004	GW-3	EPA 350.1	452666		
35394739005	GW-4	EPA 350.1	452666		
35394739006	GW-5	EPA 350.1	452666		
35394739007	GW-6	EPA 350.1	452666		
35394739008	GW-7	EPA 350.1	452666		
35394739009	GW-8	EPA 350.1	452666		
35394739010	GW-8 Dup	EPA 350.1	452666		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35394739

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35394739001	GW-25	EPA 353.2	450851		
35394739002	GW-26	EPA 353.2	450851		
35394739003	GW-27	EPA 353.2	450851		
35394739004	GW-3	EPA 353.2	450851		
35394739005	GW-4	EPA 353.2	450851		
35394739006	GW-5	EPA 353.2	450851		
35394739007	GW-6	EPA 353.2	450851		
35394739008	GW-7	EPA 353.2	450851		
35394739009	GW-8	EPA 353.2	450851		
35394739010	GW-8 Dup	EPA 353.2	450851		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Section A

Section B

Section C

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Marietta County Landfill	Report To:	Bob Bennett	Attention:	
Address:	333 Lena Road	Copy To:		Company Name:	
Bradenton, FL 34211				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Lena Rd Landfill (Existing Wells)	Pace Project Manager:	carveron.meynardie@paceclabs.com
Requested Due Date:		Project #:		Pace Profile #:	8100 Line 1
				State / Location	
				FL	

[illegible]

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35394739

PM: CEM **Due Date: 06/12/18**
CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents: MVL

Label: 5/29/18

Deliver: ✓

H: ✓

Thermometer Used: T-203

Date: 5/29/18

Time: 1610

Initials: MVL

State of Origin: FL

Cooler #1 Temp.°C 0.3 (Visual) 0.0 (Correction Factor) 0.3 (Actual)

Cooler #2 Temp.°C 2.0 (Visual) 0.0 (Correction Factor) 2.0 (Actual)

Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☒ Samples on ice, cooling process has begun

☒ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments): Trip Blank only for sample
6w-25, 6w-26, 6w-27, 6w-8, Dup

Project Manager Review: _____

Date: _____

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: CENA RD LF		SITE LOCATION: CENA RD. BRADENTON, FL	
WELL NO: GW-25	SAMPLE ID:		DATE: 5-29-18

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☐ N ☒		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y ☐ N ☐ TUBING Y ☐ N ☒ (replaced)						DUPLICATE: Y ☐ N ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0	6.6	CLND3 TDS	APR	< 300	
	1	PE	250mL	HNO3	↓	< 2	METALS	↓	↓	
	1	PE	250mL	H2SO4	↓	< 2	NH3	↓	↓	
	3	CG	40 mL	COOL	↓	6.6	EDB + DBCP	↓	↓	
	3	CG	40 mL	HCL	↓	< 2	8260	↓	↓	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 63 of 71



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENA RD LF</u>	SITE LOCATION: <u>LENA RD. BRADENTON FL</u>
WELL NO: <u>GW-26</u>	DATE: <u>5-29-18</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>7.12</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= 20.11 \text{ feet} - 7.12 \text{ feet} \times 0.16 \text{ gallons/foot} = 2.0784 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	PURGING INITIATED AT: <u>0830</u>	PURGING ENDED AT: <u>0852</u>	TOTAL VOLUME PURGED (gallons): <u>3.3</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>0844</u>	<u>2.1</u>	<u>2.1</u>	<u>0.15</u>	<u>7.25</u>	<u>5.97</u>	<u>25.1</u>	<u>269.0</u>	<u>2.89</u>	<u>18.5</u>	<u>CLEAR</u>	<u>NONE</u>
<u>0848</u>	<u>0.6</u>	<u>2.7</u>	<u>0.15</u>	<u>7.25</u>	<u>5.97</u>	<u>25.1</u>	<u>271.0</u>	<u>2.76</u>	<u>16.9</u>	<u>"</u>	<u>"</u>
<u>0852</u>	<u>0.6</u>	<u>3.3</u>	<u>0.15</u>	<u>7.25</u>	<u>5.96</u>	<u>25.1</u>	<u>271.6</u>	<u>2.59</u>	<u>15.4</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. BOGUES / PACE</u>		SAMPLER(S) SIGNATURE(S): <u>H. BOGUES</u>		SAMPLING INITIATED AT: <u>0853</u>	SAMPLING ENDED AT: <u>0903</u>				
PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	TUBING MATERIAL CODE: <u>HDPPE</u>	FIELD-FILTERED: Y <u>(N)</u>	FILTER SIZE: <u> </u> μm						
FIELD DECONTAMINATION: PUMP <u>(Y)</u> <u>(N)</u>	TUBING <u>(Y)</u> <u>(N)</u> (replaced)	DUPLICATE: Y <u>(N)</u>							
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	<u>1</u>	<u>PE</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>	<u>5.9</u>	<u>CL, NO3, TDS</u>	<u>APP</u>	<u><300</u>
	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>HNO3</u>	<u>↓</u>	<u><2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>H2SO4</u>	<u>↓</u>	<u><2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>
	<u>2</u>	<u>CG</u>	<u>40mL</u>	<u>COOL</u>	<u>↓</u>	<u>5.9</u>	<u>EDB & DECB</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>CG</u>	<u>40mL</u>	<u>HCL</u>	<u>↓</u>	<u><2</u>	<u>8260</u>	<u>↓</u>	<u>↓</u>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 64 of 71

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD. BRADENTON. FL	
WELL NO: GW-27	SAMPLE ID:		DATE: 5-29-18

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☐ N ☒		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP ☒ N ☐ TUBING Y ☒ N (replaced) ☐				DUPLICATE: Y ☒ N ☐						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	CDCL	0	6.5	CL, NDB, TDS		APP	< 300
	1	PE	250 mL	#1 NDB	↓	< 2	METALS		↓	↓
	1	PE	250 mL	#2 SD4	↓	< 2	NH3		↓	↓
	2	CG	40 mL	CDCL	↓	6.5	EDB #1 DBOP		↓	↓
	3	CG	40 mL	#1 CL	↓	< 2	B/B/D		↓	↓
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 65 of 71



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENA RD LF</u>		SITE LOCATION: <u>LENA RD. BRADENTON, FL</u>	
WELL NO: <u>GW-3</u>	SAMPLE ID:	DATE: <u>5-29-18</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>4.54</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>19.56</u> feet - <u>4.54</u> feet X <u>0.16</u> gallons/foot = <u>2.4032</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>7'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>7'</u>	PURGING INITIATED AT: <u>1003</u>	PURGING ENDED AT: <u>1030</u>	TOTAL VOLUME PURGED (gallons): <u>4.05</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1020</u>	<u>2.55</u>	<u>2.55</u>	<u>0.15</u>	<u>4.80</u>	<u>6.62</u>	<u>25.5</u>	<u>385</u>	<u>3.82</u>	<u>8.62</u>	<u>CLEAR</u>	<u>NONE</u>
<u>1025</u>	<u>0.75</u>	<u>3.30</u>	<u>0.15</u>	<u>4.80</u>	<u>6.63</u>	<u>25.6</u>	<u>385</u>	<u>3.09</u>	<u>6.37</u>	<u>"</u>	<u>"</u>
<u>1030</u>	<u>0.75</u>	<u>4.05</u>	<u>0.15</u>	<u>4.80</u>	<u>6.63</u>	<u>25.6</u>	<u>384</u>	<u>3.05</u>	<u>5.90</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

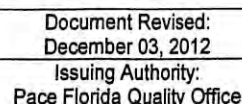
SAMPLING DATA

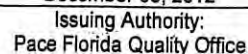
SAMPLED BY (PRINT) / AFFILIATION: <u>H. BOSQUES/PACE</u>		SAMPLED BY SIGNATURE(S): <u>H. BOSQUES</u>		SAMPLING INITIATED AT: <u>1031</u>	SAMPLING ENDED AT: <u>1041</u>				
PUMP OR TUBING DEPTH IN WELL (feet): <u>7'</u>		TUBING MATERIAL CODE: <u>HDPE</u>	FIELD-FILTERED: Y <u>(N)</u>	FILTER SIZE: <u> </u> μm					
FIELD DECONTAMINATION: PUMP <u>(Y)</u> N		TUBING Y <u>(N)</u> (replaced)	DUPLICATE: Y <u>(N)</u>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	<u>1</u>	<u>PE</u>	<u>1L</u>	<u>COOL</u>	<u>4</u>	<u>6.6</u>	<u>CLN03-TDS</u>	<u>APP</u>	<u>< 300</u>
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HNO3</u>	<u>↓</u>	<u>< 2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>H2SO4</u>	<u>↓</u>	<u>< 2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>
	<u>2</u>	<u>CG</u>	<u>40 ml</u>	<u>COOL</u>	<u>↓</u>	<u>6.6</u>	<u>EDB+DEOR</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>↓</u>	<u>< 2</u>	<u>8260</u>	<u>↓</u>	<u>↓</u>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 66 of 71





Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD. BRADENTON FL.	
WELL NO: GN-0	SAMPLE ID:		DATE: 5-29-18

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFEILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☐ N ☒		Filtration Equipment Type:		
FIELD DECONTAMINATION: PUMP ☒ N ☐				TUBING Y ☒ N (replaced) ☐		DUPLICATE: Y ☒ N ☐				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0	4.6	CL, NO3-TDS		APP	< 300
	1	PE	250 mL	HNO3	↓	< 2	METALS		↓	↓
	1	PE	250 mL	H2SO4	↓	< 2	NH3		↓	↓
	2	CG	40 mL	COOL	↓	6.6	EDB & DBCP		↓	↓
	3	CG	40 mL	HCL	↓	< 2	8260		↓	↓
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										
NOTES: 1. The...										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD. BRADENTON FL.	
WELL NO: OW-7	SAMPLE ID:		DATE: 5-29-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.72	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= 20.59 feet - 7.72 feet X 0.16 gallons/foot = 2.0592 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	PURGING INITIATED AT: 1312	PURGING ENDED AT: 1334	TOTAL VOLUME PURGED (gallons): 3.3

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.66; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): AFFILIATION: H. BOGUES/PACE				SAMPLER(S) SIGNATURE(S): H. BOGUES			SPANNING INITIATED AT: 1335		SAMPLING ENDED AT: 1415	
PUMP OR TUBING DEPTH IN WELL (feet): 10				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y ☒ N ☒		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP ☒ N				TUBING Y ☒ N (replaced)			DUPLICATE: Y ☒ N ☒			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	8E	1L	CODL	0	6.6	AL, NO3, TDS		APP	< 300
	1	8E	250 ml	HNO3	↓	< 2	METALS		↓	↓
	1	8E	250 ml	H2SO4	↓	< 2	NH3		↓	↓
	2	CG	40 ml	CODL	↓	6.6	ED3 # JBC8		↓	↓
	3	CG	40 ml	HCL	↓	< 2	826D		↓	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 10

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD BRADENTON FL	
WELL NO: GW-8 / DUG	SAMPLE ID:	DATE: 5-29-18	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:	SP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)							
= 20.32 feet - 9.15 feet X 0.16 gallons/foot = 1.7872 gallons							
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)							
= gallons + (gallons/foot X feet) + gallons = gallons							
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	12'	PURGING INITIATED AT:	1350	PURGING ENDED AT:	1408
				TOTAL VOLUME PURGED (gallons):		2.70	

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Bogues / PACE		SAMPLER(S) / SIGNATURE(S): H. Bogues		SAMPLING INITIATED AT: 1/4/09	SAMPLING ENDED AT: 1/4/09
PUMP OR TUBING DEPTH IN WELL (feet): 12'		TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y ☒ N ☒ Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION:	PUMP	<u>Y</u>	N	TUBING	Y	<u>N (replaced)</u>	DUPLICATE:	<u>Y</u>	N
------------------------	------	----------	---	--------	---	---------------------	------------	----------	---

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	1L	CDC	0	6.4	HNO ₃ , TDS	APP	<300
	1	PE	250ml.	HNO ₃	↓	<2	METALS	↓	
	1	PE	250ml.	H ₂ SO ₄		<2	NH ₃		
	2	CG	40 ml	CDC		6.6	EDB & DBCP		
	3	CG	40 ml.	HCL		<2	8260		

REMARKS:

Duplicate Taken.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
 RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+5$ NTU or $\pm 10\%$ (whichever is greater) Paq

June 13, 2018

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Rd Landfill
Pace Project No.: 35394963

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Bob Bennett, Manatee County
Ken Guilbeault, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Rd Landfill

Pace Project No.: 35394963

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677

Florida Certification #: E84129

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Lena Rd Landfill

Pace Project No.: 35394963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35394963001	EQ	Water	05/30/18 08:00	05/30/18 15:35
35394963002	GW-9	Water	05/30/18 09:14	05/30/18 15:35
35394963003	GW-10	Water	05/30/18 10:14	05/30/18 15:35
35394963004	GW-11	Water	05/30/18 12:35	05/30/18 15:35
35394963005	Trip Blank	Water	05/30/18 08:00	05/30/18 15:35

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill

Pace Project No.: 35394963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35394963001	EQ	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35394963002	GW-9	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35394963003	GW-10	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35394963004	GW-11	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35394963005	Trip Blank	EPA 8011	LJM	2	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: EQ Lab ID: 35394963001 Collected: 05/30/18 08:00 Received: 05/30/18 15:35 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 13:45	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 13:45	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:15	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:15	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:15	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:15	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:15	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:15	7440-50-8	
Iron	20.0 U	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 17:15	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:15	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 17:15	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:15	7440-22-4	
Sodium	0.50 U	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:15	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:15	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 17:15	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:33	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:33	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:33	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:33	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:33	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 13:24	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/04/18 23:36	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/04/18 23:36	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/04/18 23:36	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/04/18 23:36	74-83-9	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/04/18 23:36	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/04/18 23:36	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/04/18 23:36	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/04/18 23:36	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/04/18 23:36	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/04/18 23:36	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	106-46-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: EQ Lab ID: 35394963001 Collected: 05/30/18 08:00 Received: 05/30/18 15:35 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/04/18 23:36	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/04/18 23:36	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/04/18 23:36	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/04/18 23:36	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/04/18 23:36	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/04/18 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/04/18 23:36	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/04/18 23:36	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/04/18 23:36	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/04/18 23:36	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/04/18 23:36	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/04/18 23:36	1330-20-7	
2-Butanone (MEK)	19.6	ug/L	10.0	5.0	1		06/07/18 04:31	78-93-3	
Acetone	51.9	ug/L	20.0	10.0	1		06/07/18 04:31	67-64-1	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/07/18 04:31	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-135		1		06/07/18 04:31	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		06/07/18 04:31	2037-26-5	
2540C Total Diss. Solids Tampa Analytical Method: SM 2540C									
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1		05/31/18 13:51		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	2.5 U	mg/L	5.0	2.5	1		06/05/18 01:08	16887-00-6	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/12/18 09:19	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		05/31/18 08:05	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill

Pace Project No.: 35394963

Sample: GW-9		Lab ID: 35394963002		Collected: 05/30/18 09:14		Received: 05/30/18 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.88	Std. Units			1		05/30/18 09:14		
Field Temperature	25.6	deg C			1		05/30/18 09:14		
Field Specific Conductance	287.2	umhos/cm			1		05/30/18 09:14		
Oxygen, Dissolved	0.46	mg/L			1		05/30/18 09:14	7782-44-7	
Turbidity	18.8	NTU			1		05/30/18 09:14		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 14:00	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 14:00	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	6.1 I	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:27	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:27	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:27	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:27	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:27	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:27	7440-50-8	
Iron	394	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 17:27	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:27	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 17:27	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:27	7440-22-4	
Sodium	1.9	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:27	7440-23-5	
Vanadium	8.3 I	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:27	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 17:27	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:35	7440-36-0	
Arsenic	3.9	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:35	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:35	7439-92-1	
Selenium	1.0	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:35	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 13:26	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 04:32	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:32	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 04:32	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 04:32	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 04:32	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:32	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:32	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: GW-9 **Lab ID: 35394963002** Collected: 05/30/18 09:14 Received: 05/30/18 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 04:32	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 04:32	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 04:32	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 04:32	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 04:32	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:32	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 04:32	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 04:32	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:32	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 04:32	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 04:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:32	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 04:32	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 04:32	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 04:32	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:32	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 04:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	89-111		1		06/05/18 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-135		1		06/05/18 04:32	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/05/18 04:32	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	158	mg/L	5.0	5.0	1	05/31/18 13:51
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	2.5 U	mg/L	5.0	2.5	1	06/05/18 01:30	16887-00-6
----------	--------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill

Pace Project No.: 35394963

Sample: GW-9		Lab ID: 35394963002		Collected: 05/30/18 09:14		Received: 05/30/18 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.12	mg/L	0.050	0.035	1		06/12/18 09:25	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.035 I	mg/L	0.050	0.025	1		05/31/18 08:06	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: GW-10		Lab ID: 35394963003		Collected: 05/30/18 10:14		Received: 05/30/18 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.74	Std. Units			1		05/30/18 10:14		
Field Temperature	25.1	deg C			1		05/30/18 10:14		
Field Specific Conductance	704	umhos/cm			1		05/30/18 10:14		
Oxygen, Dissolved	0.21	mg/L			1		05/30/18 10:14	7782-44-7	
Turbidity	19.7	NTU			1		05/30/18 10:14		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	06/02/18 02:56	06/04/18 14:15	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	06/02/18 02:56	06/04/18 14:15	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	17.0	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:29	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:29	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:29	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:29	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:29	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:29	7440-50-8	
Iron	4740	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 17:29	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:29	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 17:29	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:29	7440-22-4	
Sodium	4.5	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:29	7440-23-5	
Vanadium	66.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:29	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 17:29	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	4.4	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:46	7440-36-0	
Arsenic	27.7	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:46	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:46	7439-92-1	
Selenium	2.4	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:46	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 13:28	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 04:56	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:56	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 04:56	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 04:56	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 04:56	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:56	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:56	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: GW-10 **Lab ID: 35394963003** Collected: 05/30/18 10:14 Received: 05/30/18 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 04:56	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 04:56	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 04:56	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 04:56	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 04:56	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:56	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 04:56	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 04:56	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:56	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 04:56	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 04:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 04:56	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 04:56	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 04:56	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 04:56	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 04:56	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 04:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		06/05/18 04:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-135		1		06/05/18 04:56	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		06/05/18 04:56	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	431	mg/L	5.0	5.0	1		05/31/18 13:52
------------------------	-----	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	9.0	mg/L	5.0	2.5	1		06/05/18 01:52	16887-00-6
----------	-----	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill

Pace Project No.: 35394963

Sample: GW-10		Lab ID: 35394963003		Collected: 05/30/18 10:14		Received: 05/30/18 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.50	mg/L	0.050	0.035	1		06/12/18 09:30	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		05/31/18 08:07	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: GW-11 Lab ID: 35394963004 Collected: 05/30/18 12:35 Received: 05/30/18 15:35 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.56	Std. Units			1		05/30/18 12:35		
Field Temperature	24.0	deg C			1		05/30/18 12:35		
Field Specific Conductance	466.0	umhos/cm			1		05/30/18 12:35		
Oxygen, Dissolved	0.38	mg/L			1		05/30/18 12:35	7782-44-7	
Turbidity	5.75	NTU			1		05/30/18 12:35		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	06/02/18 02:56	06/04/18 14:30	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	06/02/18 02:56	06/04/18 14:30	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	12.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:32	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:32	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:32	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:32	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:32	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:32	7440-50-8	
Iron	2500	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 17:32	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:32	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 17:32	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 17:32	7440-22-4	
Sodium	19.0	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 17:32	7440-23-5	
Vanadium	7.2 I	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 17:32	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 17:32	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	1.0	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:49	7440-36-0	
Arsenic	12.4	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:49	7440-38-2	
Lead	1.3	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:49	7439-92-1	
Selenium	0.79 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:49	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:49	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 13:35	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 05:20	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 05:20	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 05:20	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 05:20	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 05:20	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 05:20	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 05:20	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill
Pace Project No.: 35394963

Sample: GW-11 **Lab ID: 35394963004** Collected: 05/30/18 12:35 Received: 05/30/18 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 05:20	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 05:20	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 05:20	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 05:20	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 05:20	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 05:20	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 05:20	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 05:20	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 05:20	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 05:20	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 05:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 05:20	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 05:20	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 05:20	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 05:20	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 05:20	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 05:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	89-111		1		06/05/18 05:20	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-135		1		06/05/18 05:20	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		06/05/18 05:20	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	340	mg/L	5.0	5.0	1	05/31/18 13:52
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	25.4	mg/L	5.0	2.5	1	06/05/18 02:14	16887-00-6
----------	-------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill

Pace Project No.: 35394963

Sample: GW-11		Lab ID: 35394963004		Collected: 05/30/18 12:35		Received: 05/30/18 15:35		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.13	mg/L	0.050	0.035	1		06/12/18 09:32	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		05/31/18 08:09	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill

Pace Project No.: 35394963

Sample: Trip Blank		Lab ID: 35394963005	Collected: 05/30/18 08:00	Received: 05/30/18 15:35	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	06/02/18 02:56	06/04/18 14:46	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	06/02/18 02:56	06/04/18 14:46	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 451562 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2446080 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	06/05/18 12:44	

LABORATORY CONTROL SAMPLE: 2446081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2446082 2446083

Parameter	Units	35394179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.10	2	2	1.6	1.5	78	75	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 452341 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2449776 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	06/06/18 17:09	
Beryllium	ug/L	0.50 U	1.0	0.50	06/06/18 17:09	
Cadmium	ug/L	0.50 U	1.0	0.50	06/06/18 17:09	
Chromium	ug/L	2.5 U	5.0	2.5	06/06/18 17:09	
Cobalt	ug/L	5.0 U	10.0	5.0	06/06/18 17:09	
Copper	ug/L	2.5 U	5.0	2.5	06/06/18 17:09	
Iron	ug/L	20.0 U	40.0	20.0	06/06/18 17:09	
Nickel	ug/L	2.5 U	5.0	2.5	06/06/18 17:09	
Selenium	ug/L	7.5 U	15.0	7.5	06/06/18 17:09	
Silver	ug/L	2.5 U	5.0	2.5	06/06/18 17:09	
Sodium	mg/L	0.50 U	1.0	0.50	06/06/18 17:09	
Vanadium	ug/L	5.0 U	10.0	5.0	06/06/18 17:09	
Zinc	ug/L	10.0 U	20.0	10.0	06/06/18 17:09	

LABORATORY CONTROL SAMPLE: 2449777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	273	109	80-120	
Beryllium	ug/L	25	26.4	106	80-120	
Cadmium	ug/L	25	26.6	107	80-120	
Chromium	ug/L	250	272	109	80-120	
Cobalt	ug/L	250	271	108	80-120	
Copper	ug/L	250	266	106	80-120	
Iron	ug/L	2500	2700	108	80-120	
Nickel	ug/L	250	272	109	80-120	
Selenium	ug/L	250	264	106	80-120	
Silver	ug/L	25	26.9	108	80-120	
Sodium	mg/L	12.5	13.4	107	80-120	
Vanadium	ug/L	250	270	108	80-120	
Zinc	ug/L	1250	1330	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449778 2449779

Parameter	Units	35394963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	5.0 U	250	250	270	261	108	104	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	26.1	25.3	105	101	75-125	3	20	
Cadmium	ug/L	0.50 U	25	25	26.3	25.5	105	102	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449778 2449779											
Parameter	Units	35394963001		MS	MSD	MS		MSD	% Rec		Max
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Chromium	ug/L	2.5 U		250	250	270	261	108	104	75-125	3
Cobalt	ug/L	5.0 U		250	250	269	261	108	104	75-125	3
Copper	ug/L	2.5 U		250	250	266	256	106	102	75-125	4
Iron	ug/L	20.0 U		2500	2500	2680	2590	107	103	75-125	3
Nickel	ug/L	2.5 U		250	250	269	261	107	104	75-125	3
Selenium	ug/L	7.5 U		250	250	258	251	103	100	75-125	3
Silver	ug/L	2.5 U		25	25	26.4	25.5	105	102	75-125	3
Sodium	mg/L	0.50 U		12.5	12.5	13.3	12.8	106	102	75-125	4
Vanadium	ug/L	5.0 U		250	250	268	259	107	104	75-125	3
Zinc	ug/L	10.0 U		1250	1250	1320	1280	105	102	75-125	3

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 452342 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2449783 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	06/06/18 19:19	
Arsenic	ug/L	0.50 U	1.0	0.50	06/06/18 19:19	
Lead	ug/L	0.50 U	1.0	0.50	06/06/18 19:19	
Selenium	ug/L	0.50 U	1.0	0.50	06/06/18 19:19	
Thallium	ug/L	0.50 U	1.0	0.50	06/06/18 19:19	

LABORATORY CONTROL SAMPLE: 2449784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	48.6	97	80-120	
Arsenic	ug/L	50	49.3	99	80-120	
Lead	ug/L	50	52.6	105	80-120	
Selenium	ug/L	50	46.7	93	80-120	
Thallium	ug/L	50	52.5	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449785 2449786

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.8	52.3	101	104	75-125	3	20	
Arsenic	ug/L	3.9	50	50	55.4	56.5	103	105	75-125	2	20	
Lead	ug/L	0.50 U	50	50	54.1	55.2	108	110	75-125	2	20	
Selenium	ug/L	1.0	50	50	50.8	51.8	100	102	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	54.8	56.0	109	112	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 452088 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2448571 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/04/18 22:48	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/04/18 22:48	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
2-Butanone (MEK)	ug/L	84.4	10.0	5.0	06/04/18 22:48	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Acetone	ug/L	16.4 I	20.0	10.0	06/04/18 22:48	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Benzene	ug/L	0.10 U	1.0	0.10	06/04/18 22:48	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/04/18 22:48	
Bromoform	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/04/18 22:48	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/04/18 22:48	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/04/18 22:48	
Chloroform	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/04/18 22:48	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/04/18 22:48	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/04/18 22:48	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/04/18 22:48	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/04/18 22:48	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/04/18 22:48	
Styrene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Toluene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/04/18 22:48	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

METHOD BLANK: 2448571

Matrix: Water

Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/04/18 22:48	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/04/18 22:48	
1,2-Dichloroethane-d4 (S)	%	116	75-135		06/04/18 22:48	
4-Bromofluorobenzene (S)	%	93	89-111		06/04/18 22:48	
Toluene-d8 (S)	%	113	89-112		06/04/18 22:48	J(S0)

LABORATORY CONTROL SAMPLE: 2448572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.3	96	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	65-134	
1,2,3-Trichloropropane	ug/L	20	18.4	92	65-135	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	40	28.9	72	61-129	
2-Hexanone	ug/L	40	33.6	84	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	33.8	85	70-130	
Acetone	ug/L	40	30.7	77	44-155	
Acrylonitrile	ug/L	200	180	90	59-138	
Benzene	ug/L	20	19.7	99	70-130	
Bromochloromethane	ug/L	20	19.3	97	70-130	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	17.6	88	62-129	
Bromomethane	ug/L	20	18.1	90	10-179	
Carbon disulfide	ug/L	20	19.4	97	40-156	
Carbon tetrachloride	ug/L	20	19.3	96	66-127	
Chlorobenzene	ug/L	20	19.9	100	70-130	
Chloroethane	ug/L	20	22.5	113	57-142	
Chloroform	ug/L	20	19.7	98	70-130	
Chloromethane	ug/L	20	21.6	108	45-150	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	19.2	96	70-130	
Dibromomethane	ug/L	20	18.9	94	70-130	
Ethylbenzene	ug/L	20	18.7	94	70-130	
Iodomethane	ug/L	40	44.0	110	21-150	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

LABORATORY CONTROL SAMPLE: 2448572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	23.2	116	65-127	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	17.1	85	48-155	
Toluene	ug/L	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.5	98	46-138	
Trichloroethene	ug/L	20	19.1	95	69-129	
Trichlorofluoromethane	ug/L	20	21.1	106	60-144	
Vinyl acetate	ug/L	20	20.4	102	70-130	
Vinyl chloride	ug/L	20	22.7	114	67-136	
Xylene (Total)	ug/L	60	58.1	97	70-130	
1,2-Dichloroethane-d4 (S)	%			101	75-135	
4-Bromofluorobenzene (S)	%			96	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2449824

Parameter	Units	35395452002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.0	90	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.3	97	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	20.7	103	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.7	94	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.8	98	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.7	92	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.8	94	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.3	100	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	26.7	67	61-129	
2-Hexanone	ug/L	5.0 U	40	30.0	75	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	29.0	72	70-130	
Acetone	ug/L	10.0 U	40	26.2	65	44-155	
Acrylonitrile	ug/L	5.0 U	200	172	86	59-138	
Benzene	ug/L	0.10 U	20	19.1	96	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.2	96	70-130	
Bromodichloromethane	ug/L	0.27 U	20	19.6	98	70-130	
Bromoform	ug/L	0.50 U	20	16.7	83	62-129	
Bromomethane	ug/L	0.50 U	20	13.3	67	10-179	
Carbon disulfide	ug/L	5.0 U	20	16.7	82	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	19.6	98	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.3	96	70-130	
Chloroethane	ug/L	0.50 U	20	24.7	124	57-142	
Chloroform	ug/L	0.50 U	20	19.5	97	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

MATRIX SPIKE SAMPLE: 2449824		35395452002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	21.2	106	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.1	86	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.6	88	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	89	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.7	93	70-130	
Iodomethane	ug/L	0.50 U	40	28.8	72	21-150	
Methylene Chloride	ug/L	2.5 U	20	20.8	104	65-127	
Styrene	ug/L	0.50 U	20	19.5	97	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.5	77	48-155	
Toluene	ug/L	0.50 U	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.7	93	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.7	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	15.9	79	46-138	
Trichloroethene	ug/L	0.50 U	20	18.4	92	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	22.3	112	60-144	
Vinyl acetate	ug/L	1.0 U	20	15.1	76	70-130	
Vinyl chloride	ug/L	0.50 U	20	23.3	116	67-136	
Xylene (Total)	ug/L	1.0 U	60	56.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%				106	75-135	
4-Bromofluorobenzene (S)	%				96	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2449823

Parameter	Units	35395452001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

SAMPLE DUPLICATE: 2449823

Parameter	Units	35395452001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	103	101	1	40	
4-Bromofluorobenzene (S)	%	94	96	3	40	
Toluene-d8 (S)	%	106	103	3	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 452708

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 35394963001

METHOD BLANK: 2452120

Matrix: Water

Associated Lab Samples: 35394963001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
Acetone	ug/L	10.0 U	20.0	10.0	06/07/18 01:32	
1,2-Dichloroethane-d4 (S)	%	111	75-135		06/07/18 01:32	
4-Bromofluorobenzene (S)	%	95	89-111		06/07/18 01:32	
Toluene-d8 (S)	%	109	89-112		06/07/18 01:32	

LABORATORY CONTROL SAMPLE: 2452121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	40	30.2	75	61-129	
Acetone	ug/L	40	31.1	78	44-155	
1,2-Dichloroethane-d4 (S)	%			104	75-135	
4-Bromofluorobenzene (S)	%			98	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2453570

Parameter	Units	35395481004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	5.0 U	40	26.7	67	61-129	
Acetone	ug/L	10.0 U	40	26.6	67	44-155	
1,2-Dichloroethane-d4 (S)	%				104	75-135	
4-Bromofluorobenzene (S)	%				88	89-111 J(S0)	
Toluene-d8 (S)	%				99	89-112	

SAMPLE DUPLICATE: 2453569

Parameter	Units	35395481001 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
1,2-Dichloroethane-d4 (S)	%	113	114	1	40	
4-Bromofluorobenzene (S)	%	91	90	0	40	
Toluene-d8 (S)	%	103	104	1	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 451592

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: 8011 EDB DBCP

Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004, 35394963005

METHOD BLANK: 2446236

Matrix: Water

Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004, 35394963005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	06/04/18 09:59	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	06/04/18 09:59	

LABORATORY CONTROL SAMPLE: 2446237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.22	86	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.21	83	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2446983 2446984

Parameter	Units	35395158004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0063 U	.44	.44	0.49	0.48	111	110	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0074 U	.44	.44	0.47	0.47	107	108	60-140	1	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch:	451204	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Diss. Solids Tampa
Associated Lab Samples:	35394963001, 35394963002, 35394963003, 35394963004		

METHOD BLANK:	2444344	Matrix:	Water
Associated Lab Samples:	35394963001, 35394963002, 35394963003, 35394963004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	05/31/18 13:47	

LABORATORY CONTROL SAMPLE: 2444345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	300	100	90-110	

SAMPLE DUPLICATE: 2444346

Parameter	Units	35394820001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1340	1360	1	5	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 451907 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2447840 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	06/04/18 21:26	

LABORATORY CONTROL SAMPLE: 2447841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2447842 2447843

Parameter	Units	35395469001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	34.0	50	50	85.7	85.8	103	103	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 453737 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2458176 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	06/12/18 09:16	

LABORATORY CONTROL SAMPLE: 2458177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2458179

Parameter	Units	35394963001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	1	1.0	100	90-110	

SAMPLE DUPLICATE: 2458178

Parameter	Units	35394963001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.035 U		20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill

Pace Project No.: 35394963

QC Batch: 451141 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

METHOD BLANK: 2444085 Matrix: Water
Associated Lab Samples: 35394963001, 35394963002, 35394963003, 35394963004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	05/31/18 07:34	

SAMPLE DUPLICATE: 2444087

Parameter	Units	35394867001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	0	20	

SAMPLE DUPLICATE: 2444089

Parameter	Units	35394924004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.1	1.1	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Lena Rd Landfill

Pace Project No.: 35394963

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

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.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill

Pace Project No.: 35394963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35394963002	GW-9				
35394963003	GW-10				
35394963004	GW-11				
35394963001	EQ	EPA 8011	451592	EPA 8011	451822
35394963002	GW-9	EPA 8011	451592	EPA 8011	451822
35394963003	GW-10	EPA 8011	451592	EPA 8011	451822
35394963004	GW-11	EPA 8011	451592	EPA 8011	451822
35394963005	Trip Blank	EPA 8011	451592	EPA 8011	451822
35394963001	EQ	EPA 3010	452341	EPA 6010	452386
35394963002	GW-9	EPA 3010	452341	EPA 6010	452386
35394963003	GW-10	EPA 3010	452341	EPA 6010	452386
35394963004	GW-11	EPA 3010	452341	EPA 6010	452386
35394963001	EQ	EPA 3010	452342	EPA 6020	452385
35394963002	GW-9	EPA 3010	452342	EPA 6020	452385
35394963003	GW-10	EPA 3010	452342	EPA 6020	452385
35394963004	GW-11	EPA 3010	452342	EPA 6020	452385
35394963001	EQ	EPA 7470	451562	EPA 7470	451876
35394963002	GW-9	EPA 7470	451562	EPA 7470	451876
35394963003	GW-10	EPA 7470	451562	EPA 7470	451876
35394963004	GW-11	EPA 7470	451562	EPA 7470	451876
35394963001	EQ	EPA 8260	452088		
35394963001	EQ	EPA 8260	452708		
35394963002	GW-9	EPA 8260	452088		
35394963003	GW-10	EPA 8260	452088		
35394963004	GW-11	EPA 8260	452088		
35394963001	EQ	SM 2540C	451204		
35394963002	GW-9	SM 2540C	451204		
35394963003	GW-10	SM 2540C	451204		
35394963004	GW-11	SM 2540C	451204		
35394963001	EQ	EPA 300.0	451907		
35394963002	GW-9	EPA 300.0	451907		
35394963003	GW-10	EPA 300.0	451907		
35394963004	GW-11	EPA 300.0	451907		
35394963001	EQ	EPA 350.1	453737		
35394963002	GW-9	EPA 350.1	453737		
35394963003	GW-10	EPA 350.1	453737		
35394963004	GW-11	EPA 350.1	453737		
35394963001	EQ	EPA 353.2	451141		
35394963002	GW-9	EPA 353.2	451141		
35394963003	GW-10	EPA 353.2	451141		
35394963004	GW-11	EPA 353.2	451141		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Section A

Required Client Information:

Company: Manatee County Landfill

Address: 333 Lena Road

Bradenton, FL 34211

Email:

Phone: _____

Requester Due Date.

Section B

Required Project Information:

Report To: Bob Bennett

Copy To:

1000

Purchase Order #:

Project Name:	Lena Rd Landfill (Existing Wells)
---------------	-----------------------------------

Project #:

Section C

Invoice Information:

Attention:

Company Name:

Address:

Pace Quote:

Pace Project Manager:	ca
-----------------------	----

Pace Profile #: 8100 Line 1

Regulatory Agency

1

State / Location

FL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N					
		Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	DW WT WW P SL OL WP AR OT TS	START	END		Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	NH ₃	CL, NO ₃ , TDS	Metals - App I+Fe, Na, Hg	8260 App I	EDB and DBCP EPA 8011	Trip Blank 8011	
1	EQR		WS			5/30/2008	5	X	X	X	X			X	X	X	X	X	X	X	
2	GUD-9		WS			5/30/2011	8	X	X	X	X			X	X	X	X	X	X	X	
3	GUD-10		WS			5/30/2011	8	X	X	X	X			X	X	X	X	X	X	X	
4	GUD-11		WS			5/30/2011	8	X	X	X	X			X	X	X	X	X	X	X	
5	TRIP BLANK						2														X
6																					
7																					
8																					
9																					
10																					
11																					
12																					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS							
Empty Containers		R. J. L. R.		5/31/12		12:30				5/31/12		15:35		T403 9 NY							

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	HOUSTAD ROGERS	
SIGNATURE of SAMPLER:	J. ROGERS	
DATE Signed:	5-30-15	
TEMP in C		
Received on Ice (Y/N)		
Custody Sealed Cooler (Y/N)		
Samples Intact (Y/N)		

	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 35394963
Project Manager: PM: CEM **Due Date:** 06/13/18
Client: CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents: DS
 Label: 5/30/18
 Deliver: 5/30/18
 pH:

Thermometer Used: T-203 Date: 5-30-18 Time: 1535 Initials: NJM

State of Origin: FL

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C <u>1.6</u> (Visual) <u> </u> (Correction Factor) <u>1.6</u> (Actual)	☒ Samples on ice, cooling process has begun
Cooler #2 Temp.°C <u> </u> (Visual) <u> </u> (Correction Factor) <u> </u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C <u> </u> (Visual) <u> </u> (Correction Factor) <u> </u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C <u> </u> (Visual) <u> </u> (Correction Factor) <u> </u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C <u> </u> (Visual) <u> </u> (Correction Factor) <u> </u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C <u> </u> (Visual) <u> </u> (Correction Factor) <u> </u> (Actual)	☐ Samples on ice, cooling process has begun

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

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: <u> </u> Lot #/Trace #: <u> </u> Date: <u> </u> Time: <u> </u> Initials: <u> </u>
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review:

Date: Page 35 of 39

	Document Name: Groundwater Sampling Log	Document Revised: December 03, 2012
	Document No.: F-FL-C-021 rev.00	Issuing Authority: Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LS	SITE LOCATION: LENA RD. BRADENTON FL
WELL NO: EQ	DATE: 5-30-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: RP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (feet - feet) X gallons/foot = gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
EQ BLANK											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: H. Brooks/PACE				SAMPLER(S) SIGNATURE(S): H. Brooks				SAMPLING INITIATED AT: 0800		SAMPLING ENDED AT: 0810	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y ☒ N ☐		FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP ☒ N ☐ TUBING Y ☒ N ☐ (replaced)				DUPLICATE: Y ☒ N ☐							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	1	PE	1L	Cool	0		CL, NO3, TDS	APP	< 300		
	1	PE	250 mL	HNO3			METALS				
	1	PE	250 mL	H2SO4			NH3				
	2	CG	40 mL	Cool			ETB & DECP				
	3	CG	40 mL	HCL			S260				

REMARKS:

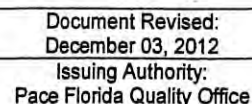
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater) Page 36 of 39



Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD. LF	SITE LOCATION: LENA RD. BRADENTON FL
WELL NO: GW-10	SAMPLE ID: DATE: 5-30-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.20	PURGE PUMP TYPE OR BAILER: 88
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (20.15 \text{ feet} - 7.20 \text{ feet}) \times 0.16 \text{ gallons/foot} = 2.072 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14'	PURGING INITIATED AT: 0940	PURGING ENDED AT: 1013	TOTAL VOLUME PURGED (gallons): 3.3

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer: **BP** = Bladder Pump: **ESP** = Electric Submersible Pump: **PP** = Peristaltic Pump: **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: #1. BOGUES / RACE				SAMPLED BY SIGNATURE(S): #1. BOGUES			SAMPLING INITIATED AT: 1014		SAMPLING ENDED AT: 1024	
PUMP OR TUBING DEPTH IN WELL (feet): 14				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y ☒ N ☒		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP ☒ N				TUBING Y ☒ N (replaced)			DUPLICATE: Y ☒ N ☒			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0	6.7	CL M3 TDS		APP	< 300
	1	PE	250 ml	#H23	↓	< 2	META/S		↓	↓
	1	PE	250 ml	#2504	↓	< 2	NH3		↓	↓
	2	CG	40 ml	COOL	↓	6.7	EDB4 JBCP		↓	↓
	3	CG	40 ml	HCL	↓	< 2	8260		↓	↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater) Page 38 of 39



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENA RD LF</u>		SITE LOCATION: <u>LENA RD. BRADENTON FL</u>	
WELL NO: <u>SW-11</u>	SAMPLE ID:	DATE: <u>5-20-18</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>6.11</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>21.61</u> feet - <u>6.11</u> feet) X <u>0.16</u> gallons/foot = <u>2.48</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>	PURGING INITIATED AT: <u>1227</u>	PURGING ENDED AT: <u>1234</u>	TOTAL VOLUME PURGED (gallons): <u>4.05</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1224</u>	<u>2.55</u>	<u>2.55</u>	<u>0.15</u>	<u>6.36</u>	<u>6.58</u>	<u>24.0</u>	<u>466.2</u>	<u>0.74</u>	<u>7.80</u>	<u>CLEAR</u>	<u>NONE</u>
<u>1229</u>	<u>0.75</u>	<u>3.30</u>	<u>0.18</u>	<u>6.36</u>	<u>6.57</u>	<u>24.0</u>	<u>466.4</u>	<u>0.49</u>	<u>6.54</u>	<u>"</u>	<u>"</u>
<u>1234</u>	<u>0.75</u>	<u>4.05</u>	<u>0.15</u>	<u>6.36</u>	<u>6.56</u>	<u>24.0</u>	<u>466.0</u>	<u>0.38</u>	<u>5.75</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. B. Bures / PACE</u>		SAMPLER(S) SIGNATURE(S): <u>H. B. Bures</u>		SAMPLING INITIATED AT: <u>1235</u>	SAMPLING ENDED AT: <u>1245</u>				
PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>		TUBING MATERIAL CODE: <u>HDPPE</u>		FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type:	FILTER SIZE: <u> </u> μ m				
FIELD DECONTAMINATION: PUMP <u>Y</u> N		TUBING Y <u>N</u> (replaced)		DUPLICATE: Y <u>N</u>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	<u>1</u>	<u>PE</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>	<u>6.5</u>	<u>AL NO3 TDS</u>	<u>APP</u>	<u>< 300</u>
	<u>1</u>	<u>PE</u>	<u>200 ml.</u>	<u>HNO3</u>	<u>1</u>	<u>< 2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>PE</u>	<u>250 ml.</u>	<u>H2SO4</u>	<u>1</u>	<u>< 2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>
	<u>2</u>	<u>CG</u>	<u>40 ml.</u>	<u>COOL</u>	<u>1</u>	<u>6.5</u>	<u>EDB & DBCP</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>CG</u>	<u>40 ml.</u>	<u>HCL</u>	<u>1</u>	<u>< 2</u>	<u>8260</u>	<u>↓</u>	<u>↓</u>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 39 of 39

June 15, 2018

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Rd Landfill (Existing)
Pace Project No.: 35395247

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Bob Bennett, Manatee County
Ken Guilbeault, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677

Florida Certification #: E84129

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35395247001	GW-18	Water	05/31/18 08:13	05/31/18 17:40
35395247002	GW-19	Water	05/31/18 09:00	05/31/18 17:40
35395247003	GW-20	Water	05/31/18 09:38	05/31/18 17:40
35395247004	GW-21	Water	05/31/18 10:22	05/31/18 17:40
35395247005	GW-22	Water	05/31/18 10:58	05/31/18 17:40
35395247006	GW-23	Water	05/31/18 11:46	05/31/18 17:40
35395247007	GW-24	Water	05/31/18 12:30	05/31/18 17:40
35395247008	GW-15	Water	05/31/18 13:55	05/31/18 17:40
35395247009	GW-16	Water	05/31/18 13:14	05/31/18 17:40
35395247010	GW-17	Water	05/31/18 14:44	05/31/18 17:40
35395247011	GW-12	Water	05/31/18 15:39	05/31/18 17:40
35395247012	GW-12 Dup	Water	05/31/18 15:39	05/31/18 17:40
35395247013	Trip Blank	Water	05/31/18 12:30	05/31/18 17:40

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35395247001	GW-18	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395247002	GW-19	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395247003	GW-20	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395247004	GW-21	EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395247005	GW-22	EPA 8011	LJM	2	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35395247006	GW-23	EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
35395247007	GW-24	EPA 353.2	SEW	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
35395247008	GW-15	EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	LJM	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
35395247009	GW-16				

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35395247010	GW-17	EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
35395247011	GW-12	EPA 353.2	SEW	1	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35395247012	GW-12 Dup	SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
35395247013	Trip Blank	EPA 6020	CRT	5	PASI-O
		EPA 7470	AMS	1	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-18		Lab ID: 35395247001		Collected: 05/31/18 08:13		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.00	Std. Units			1		05/31/18 08:13		
Field Temperature	25.3	deg C			1		05/31/18 08:13		
Field Specific Conductance	342.1	umhos/cm			1		05/31/18 08:13		
Oxygen, Dissolved	2.52	mg/L			1		05/31/18 08:13	7782-44-7	
Turbidity	15.4	NTU			1		05/31/18 08:13		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0061 U	ug/L	0.019	0.0061	1	06/02/18 02:56	06/04/18 17:01	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/02/18 02:56	06/04/18 17:01	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	19.5	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:31	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:31	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:31	7440-43-9	
Chromium	3.4 I	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:31	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:31	7440-48-4	
Copper	6.8	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:31	7440-50-8	
Iron	1150	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:31	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:31	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:31	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:31	7440-22-4	
Sodium	9.3	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:31	7440-23-5	
Vanadium	12.3	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:31	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:31	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 20:25	7440-36-0	
Arsenic	4.7	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 20:25	7440-38-2	
Lead	0.87 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 20:25	7439-92-1	
Selenium	1.1	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 20:25	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 20:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:05	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 07:45	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 07:45	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 07:45	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 07:45	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 07:45	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 07:45	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 07:45	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-18 **Lab ID: 35395247001** Collected: 05/31/18 08:13 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 07:45	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 07:45	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 07:45	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 07:45	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 07:45	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 07:45	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 07:45	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 07:45	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 07:45	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 07:45	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 07:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 07:45	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 07:45	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 07:45	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 07:45	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 07:45	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 07:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/05/18 07:45	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-135		1		06/05/18 07:45	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		06/05/18 07:45	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	266	mg/L	5.0	5.0	1		06/01/18 14:38
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	15.9	mg/L	5.0	2.5	1		06/05/18 13:35	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-18		Lab ID: 35395247001		Collected: 05/31/18 08:13		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/13/18 12:59	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.10	mg/L	0.050	0.025	1		06/01/18 07:50	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-19		Lab ID: 35395247002		Collected: 05/31/18 09:00		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.77	Std. Units			1		05/31/18 09:00		
Field Temperature	26.3	deg C			1		05/31/18 09:00		
Field Specific Conductance	417.2	umhos/cm			1		05/31/18 09:00		
Oxygen, Dissolved	1.07	mg/L			1		05/31/18 09:00	7782-44-7	
Turbidity	2.50	NTU			1		05/31/18 09:00		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0061 U	ug/L	0.019	0.0061	1	06/02/18 02:56	06/04/18 17:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/02/18 02:56	06/04/18 17:47	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	13.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:34	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:34	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:34	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:34	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:34	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:34	7440-50-8	
Iron	701	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:34	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:34	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:34	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:34	7440-22-4	
Sodium	15.4	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:34	7440-23-5	
Vanadium	6.5 I	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:34	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:34	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:45	7440-36-0	
Arsenic	3.2	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:45	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:45	7439-92-1	
Selenium	0.75 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:45	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:07	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 08:09	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:09	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 08:09	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 08:09	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 08:09	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:09	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:09	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-19 **Lab ID: 35395247002** Collected: 05/31/18 09:00 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 08:09	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 08:09	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 08:09	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 08:09	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 08:09	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:09	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 08:09	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 08:09	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:09	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 08:09	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 08:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:09	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 08:09	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 08:09	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 08:09	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:09	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 08:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	89-111		1		06/05/18 08:09	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-135		1		06/05/18 08:09	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/05/18 08:09	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	298	mg/L	5.0	5.0	1	06/01/18 14:40
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	28.2	mg/L	5.0	2.5	1	06/05/18 14:41	16887-00-6
----------	-------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-19		Lab ID: 35395247002		Collected: 05/31/18 09:00		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.13	mg/L	0.050	0.035	1		06/13/18 13:01	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.055	mg/L	0.050	0.025	1		06/01/18 07:52	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-20		Lab ID: 35395247003		Collected: 05/31/18 09:38		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.05	Std. Units			1		05/31/18 09:38		
Field Temperature	26.1	deg C			1		05/31/18 09:38		
Field Specific Conductance	407.3	umhos/cm			1		05/31/18 09:38		
Oxygen, Dissolved	1.46	mg/L			1		05/31/18 09:38	7782-44-7	
Turbidity	10.0	NTU			1		05/31/18 09:38		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 18:17	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 18:17	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	12.1	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:36	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:36	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:36	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:36	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:36	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:36	7440-50-8	
Iron	835	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:36	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:36	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:36	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:36	7440-22-4	
Sodium	7.0	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:36	7440-23-5	
Vanadium	6.1 I	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:36	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:36	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.52 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:47	7440-36-0	
Arsenic	3.2	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:47	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:47	7439-92-1	
Selenium	0.76 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:47	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:09	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 08:35	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:35	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 08:35	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 08:35	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 08:35	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:35	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:35	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-20 **Lab ID: 35395247003** Collected: 05/31/18 09:38 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 08:35	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 08:35	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 08:35	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 08:35	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 08:35	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:35	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 08:35	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 08:35	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:35	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 08:35	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 08:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 08:35	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 08:35	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 08:35	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 08:35	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 08:35	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 08:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		06/05/18 08:35	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-135		1		06/05/18 08:35	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		06/05/18 08:35	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	274	mg/L	5.0	5.0	1		06/01/18 14:40
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	14.4	mg/L	5.0	2.5	1		06/05/18 15:03	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-20		Lab ID: 35395247003		Collected: 05/31/18 09:38		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/13/18 13:03	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.21	mg/L	0.050	0.025	1		06/01/18 07:53	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-21 Lab ID: 35395247004 Collected: 05/31/18 10:22 Received: 05/31/18 17:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	5.57	Std. Units			1		05/31/18 10:22		
Field Temperature	27.1	deg C			1		05/31/18 10:22		
Field Specific Conductance	272.3	umhos/cm			1		05/31/18 10:22		
Oxygen, Dissolved	0.38	mg/L			1		05/31/18 10:22	7782-44-7	
Turbidity	8.76	NTU			1		05/31/18 10:22		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 18:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 18:32	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	10.3	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:39	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:39	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:39	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:39	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:39	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:39	7440-50-8	
Iron	366	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:39	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:39	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:39	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:39	7440-22-4	
Sodium	6.6	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:39	7440-23-5	
Vanadium	7.9 I	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:39	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:39	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:49	7440-36-0	
Arsenic	2.3	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:49	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:49	7439-92-1	
Selenium	0.79 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:49	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:49	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:11	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 09:00	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 09:00	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 09:00	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 09:00	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 09:00	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 09:00	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 09:00	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-21 **Lab ID: 35395247004** Collected: 05/31/18 10:22 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 09:00	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 09:00	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 09:00	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 09:00	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 09:00	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 09:00	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 09:00	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 09:00	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 09:00	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 09:00	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 09:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 09:00	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 09:00	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 09:00	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 09:00	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 09:00	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 09:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	89-111		1		06/05/18 09:00	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-135		1		06/05/18 09:00	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/05/18 09:00	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	212	mg/L	5.0	5.0	1	06/01/18 14:41
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	10.6	mg/L	5.0	2.5	1	06/05/18 15:25	16887-00-6
----------	-------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-21		Lab ID: 35395247004		Collected: 05/31/18 10:22		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.069	mg/L	0.050	0.035	1		06/13/18 13:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.059	mg/L	0.050	0.025	1		06/01/18 07:54	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-22 Lab ID: 35395247005 Collected: 05/31/18 10:58 Received: 05/31/18 17:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	5.47	Std. Units			1		05/31/18 10:58		
Field Temperature	25.9	deg C			1		05/31/18 10:58		
Field Specific Conductance	209.1	umhos/cm			1		05/31/18 10:58		
Oxygen, Dissolved	0.19	mg/L			1		05/31/18 10:58	7782-44-7	
Turbidity	7.6	NTU			1		05/31/18 10:58		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 18:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 18:47	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	20.2	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:42	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:42	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:42	7440-43-9	
Chromium	6.1	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:42	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:42	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:42	7440-50-8	
Iron	957	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:42	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:42	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:42	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:42	7440-22-4	
Sodium	4.9	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:42	7440-23-5	
Vanadium	26.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:42	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:42	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:51	7440-36-0	
Arsenic	1.4	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:51	7440-38-2	
Lead	2.2	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:51	7439-92-1	
Selenium	1.6	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:51	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:51	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:13	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 12:27	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 12:27	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 12:27	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 12:27	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 12:27	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 12:27	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 12:27	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-22 **Lab ID: 35395247005** Collected: 05/31/18 10:58 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 12:27	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 12:27	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 12:27	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 12:27	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 12:27	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 12:27	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 12:27	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 12:27	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 12:27	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 12:27	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 12:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 12:27	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 12:27	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 12:27	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 12:27	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 12:27	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 12:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/05/18 12:27	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-135		1		06/05/18 12:27	17060-07-0	
Toluene-d8 (S)	102	%	89-112		1		06/05/18 12:27	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	164	mg/L	5.0	5.0	1		06/01/18 14:42
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	8.3	mg/L	5.0	2.5	1		06/05/18 15:47	16887-00-6
----------	------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-22		Lab ID: 35395247005		Collected: 05/31/18 10:58		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.086	mg/L	0.050	0.035	1		06/13/18 15:51	7664-41-7	J(M1)
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.13	mg/L	0.050	0.025	1		06/01/18 07:55	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-23		Lab ID: 35395247006		Collected: 05/31/18 11:46		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.89	Std. Units			1		05/31/18 11:46		
Field Temperature	27.7	deg C			1		05/31/18 11:46		
Field Specific Conductance	288.1	umhos/cm			1		05/31/18 11:46		
Oxygen, Dissolved	0.59	mg/L			1		05/31/18 11:46	7782-44-7	
Turbidity	6.72	NTU			1		05/31/18 11:46		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.020	0.0062	1	06/02/18 02:56	06/04/18 19:53	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	06/02/18 02:56	06/04/18 19:53	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	15.1	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:51	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:51	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:51	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:51	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:51	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:51	7440-50-8	
Iron	1260	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:51	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:51	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:51	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:51	7440-22-4	
Sodium	7.2	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:51	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:51	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:51	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:54	7440-36-0	
Arsenic	3.6	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:54	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:54	7439-92-1	
Selenium	0.82 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:54	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:15	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 13:19	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:19	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 13:19	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 13:19	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 13:19	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:19	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:19	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-23 **Lab ID: 35395247006** Collected: 05/31/18 11:46 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 13:19	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 13:19	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 13:19	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 13:19	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 13:19	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:19	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 13:19	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 13:19	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:19	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 13:19	74-88-4	J(M1)
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 13:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:19	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 13:19	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 13:19	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 13:19	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:19	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 13:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		06/05/18 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-135		1		06/05/18 13:19	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		06/05/18 13:19	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	199	mg/L	5.0	5.0	1		06/01/18 14:42
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	12.4	mg/L	5.0	2.5	1		06/05/18 16:09	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-23		Lab ID: 35395247006		Collected: 05/31/18 11:46		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.63	mg/L	0.050	0.035	1		06/13/18 15:49	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.13	mg/L	0.050	0.025	1		06/01/18 07:57	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-24		Lab ID: 35395247007		Collected: 05/31/18 12:30		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.14	Std. Units			1		05/31/18 12:30		
Field Temperature	27.1	deg C			1		05/31/18 12:30		
Field Specific Conductance	273.2	umhos/cm			1		05/31/18 12:30		
Oxygen, Dissolved	3.10	mg/L			1		05/31/18 12:30	7782-44-7	
Turbidity	8.5	NTU			1		05/31/18 12:30		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	06/02/18 02:56	06/04/18 20:08	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	06/02/18 02:56	06/04/18 20:08	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	30.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:53	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:53	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:53	7440-43-9	
Chromium	7.9	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:53	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:53	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:53	7440-50-8	
Iron	551	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:53	7439-89-6	
Nickel	4.2 I	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:53	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:53	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:53	7440-22-4	
Sodium	5.1	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:53	7440-23-5	
Vanadium	12.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:53	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:53	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:56	7440-36-0	
Arsenic	0.57 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:56	7440-38-2	
Lead	2.3	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:56	7439-92-1	
Selenium	1.4	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:56	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:17	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 13:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:46	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 13:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 13:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 13:46	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:46	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:46	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-24 **Lab ID: 35395247007** Collected: 05/31/18 12:30 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 13:46	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 13:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 13:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 13:46	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 13:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 13:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 13:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:46	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 13:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 13:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 13:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 13:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 13:46	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 13:46	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 13:46	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 13:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/05/18 13:46	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-135		1		06/05/18 13:46	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		06/05/18 13:46	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	220	mg/L	5.0	5.0	1		06/01/18 14:43
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	5.5	mg/L	5.0	2.5	1		06/05/18 16:31	16887-00-6
----------	------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-24 Lab ID: 35395247007 Collected: 05/31/18 12:30 Received: 05/31/18 17:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/13/18 15:52	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2									
Nitrogen, Nitrate	0.13	mg/L	0.050	0.025	1		06/01/18 08:01	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-15		Lab ID: 35395247008		Collected: 05/31/18 13:55		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.23	Std. Units			1		05/31/18 13:55		
Field Temperature	25.8	deg C			1		05/31/18 13:55		
Field Specific Conductance	867	umhos/cm			1		05/31/18 13:55		
Oxygen, Dissolved	0.14	mg/L			1		05/31/18 13:55	7782-44-7	
Turbidity	3.34	NTU			1		05/31/18 13:55		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 20:23	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/02/18 02:56	06/04/18 20:23	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	65.9	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:56	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:56	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:56	7440-43-9	
Chromium	5.5	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:56	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:56	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:56	7440-50-8	
Iron	22900	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:56	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:56	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:56	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:56	7440-22-4	
Sodium	50.8	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:56	7440-23-5	
Vanadium	33.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:56	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:56	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:58	7440-36-0	
Arsenic	6.7	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:58	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:58	7439-92-1	
Selenium	0.78 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:58	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 21:58	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:19	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 14:12	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:12	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 14:12	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 14:12	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 14:12	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:12	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:12	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-15 **Lab ID: 35395247008** Collected: 05/31/18 13:55 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 14:12	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 14:12	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 14:12	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 14:12	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 14:12	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:12	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 14:12	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 14:12	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:12	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 14:12	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 14:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:12	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 14:12	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 14:12	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 14:12	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:12	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 14:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/05/18 14:12	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	75-135		1		06/05/18 14:12	17060-07-0	
Toluene-d8 (S)	103	%	89-112		1		06/05/18 14:12	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	588	mg/L	5.0	5.0	1		06/01/18 14:43
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	87.8	mg/L	5.0	2.5	1		06/05/18 16:53	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-15		Lab ID: 35395247008		Collected: 05/31/18 13:55		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.97	mg/L	0.050	0.035	1		06/13/18 15:54	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/01/18 08:04	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-16		Lab ID: 35395247009		Collected: 05/31/18 13:14		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.06	Std. Units			1		05/31/18 13:14		
Field Temperature	25.6	deg C			1		05/31/18 13:14		
Field Specific Conductance	622	umhos/cm			1		05/31/18 13:14		
Oxygen, Dissolved	0.70	mg/L			1		05/31/18 13:14	7782-44-7	
Turbidity	8.4	NTU			1		05/31/18 13:14		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 20:38	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 20:38	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	47.6	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:59	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:59	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:59	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:59	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:59	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:59	7440-50-8	
Iron	950	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 18:59	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:59	7440-02-0	
Selenium	11.3 I	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 18:59	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 18:59	7440-22-4	
Sodium	33.8	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 18:59	7440-23-5	
Vanadium	61.5	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 18:59	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 18:59	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	2.4	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:00	7440-36-0	
Arsenic	3.8	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:00	7440-38-2	
Lead	0.52 I	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:00	7439-92-1	
Selenium	11.9	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:00	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:26	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/05/18 14:39	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:39	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/05/18 14:39	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/05/18 14:39	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/05/18 14:39	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:39	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:39	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-16 **Lab ID: 35395247009** Collected: 05/31/18 13:14 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/05/18 14:39	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 14:39	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/05/18 14:39	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/05/18 14:39	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/05/18 14:39	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:39	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 14:39	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/05/18 14:39	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:39	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/05/18 14:39	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/05/18 14:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/05/18 14:39	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/05/18 14:39	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/05/18 14:39	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/05/18 14:39	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/05/18 14:39	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/05/18 14:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/05/18 14:39	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-135		1		06/05/18 14:39	17060-07-0	
Toluene-d8 (S)	104	%	89-112		1		06/05/18 14:39	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	386	mg/L	5.0	5.0	1		06/01/18 14:44
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	34.4	mg/L	5.0	2.5	1		06/05/18 17:15	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-16		Lab ID: 35395247009		Collected: 05/31/18 13:14		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.22	mg/L	0.050	0.035	1		06/13/18 16:05	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	6.4	mg/L	0.25	0.12	5		06/01/18 08:43	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-17 Lab ID: 35395247010 Collected: 05/31/18 14:44 Received: 05/31/18 17:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	5.52	Std. Units			1		05/31/18 14:44		
Field Temperature	25.7	deg C			1		05/31/18 14:44		
Field Specific Conductance	95.1	umhos/cm			1		05/31/18 14:44		
Oxygen, Dissolved	0.22	mg/L			1		05/31/18 14:44	7782-44-7	
Turbidity	7.23	NTU			1		05/31/18 14:44		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	06/02/18 02:56	06/04/18 20:52	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	06/02/18 02:56	06/04/18 20:52	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 19:02	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:02	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:02	7440-43-9	
Chromium	8.0	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:02	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 19:02	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:02	7440-50-8	
Iron	5650	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 19:02	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:02	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 19:02	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:02	7440-22-4	
Sodium	2.6	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:02	7440-23-5	
Vanadium	29.0	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 19:02	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 19:02	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/07/18 02:27	7440-36-0	
Arsenic	1.2	ug/L	1.0	0.50	1	06/05/18 17:13	06/07/18 02:27	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/07/18 02:27	7439-92-1	
Selenium	1.3	ug/L	1.0	0.50	1	06/05/18 17:13	06/07/18 02:27	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/07/18 02:27	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:28	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/07/18 10:16	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:16	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/07/18 10:16	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/07/18 10:16	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/07/18 10:16	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:16	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:16	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-17 **Lab ID: 35395247010** Collected: 05/31/18 14:44 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/07/18 10:16	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/07/18 10:16	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/07/18 10:16	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/07/18 10:16	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/07/18 10:16	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:16	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/07/18 10:16	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/07/18 10:16	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:16	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/07/18 10:16	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/07/18 10:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:16	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/07/18 10:16	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/07/18 10:16	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/07/18 10:16	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:16	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/07/18 10:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		06/07/18 10:16	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-135		1		06/07/18 10:16	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/07/18 10:16	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	83.0	mg/L	5.0	5.0	1		06/01/18 14:44
------------------------	-------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	4.4 I	mg/L	5.0	2.5	1		06/05/18 17:37	16887-00-6
----------	--------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-17		Lab ID: 35395247010		Collected: 05/31/18 14:44		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	1.1	mg/L	0.050	0.035	1		06/13/18 16:02	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/01/18 08:07	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-12 Lab ID: 35395247011 Collected: 05/31/18 15:39 Received: 05/31/18 17:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.55	Std. Units			1		05/31/18 15:39		
Field Temperature	25.6	deg C			1		05/31/18 15:39		
Field Specific Conductance	707	umhos/cm			1		05/31/18 15:39		
Oxygen, Dissolved	1.50	mg/L			1		05/31/18 15:39	7782-44-7	
Turbidity	1.60	NTU			1		05/31/18 15:39		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0061 U	ug/L	0.019	0.0061	1	06/02/18 02:56	06/04/18 21:07	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/02/18 02:56	06/04/18 21:07	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	34.8	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 19:05	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:05	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:05	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:05	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 19:05	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:05	7440-50-8	
Iron	116	ug/L	40.0	20.0	1	06/05/18 17:13	06/06/18 19:05	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:05	7440-02-0	
Selenium	21.2	ug/L	15.0	7.5	1	06/05/18 17:13	06/06/18 19:05	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/05/18 17:13	06/06/18 19:05	7440-22-4	
Sodium	4.4	mg/L	1.0	0.50	1	06/05/18 17:13	06/06/18 19:05	7440-23-5	
Vanadium	36.7	ug/L	10.0	5.0	1	06/05/18 17:13	06/06/18 19:05	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/05/18 17:13	06/06/18 19:05	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	2.7	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:08	7440-36-0	
Arsenic	1.8	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:08	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:08	7439-92-1	
Selenium	21.3	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:08	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/05/18 17:13	06/06/18 22:08	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:30	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/07/18 10:42	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:42	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/07/18 10:42	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/07/18 10:42	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/07/18 10:42	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:42	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:42	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-12 **Lab ID: 35395247011** Collected: 05/31/18 15:39 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/07/18 10:42	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/07/18 10:42	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/07/18 10:42	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/07/18 10:42	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/07/18 10:42	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:42	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/07/18 10:42	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/07/18 10:42	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:42	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/07/18 10:42	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/07/18 10:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/07/18 10:42	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/07/18 10:42	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/07/18 10:42	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/07/18 10:42	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/07/18 10:42	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/07/18 10:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		06/07/18 10:42	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-135		1		06/07/18 10:42	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/07/18 10:42	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	435	mg/L	5.0	5.0	1		06/01/18 14:45
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	4.8 I	mg/L	5.0	2.5	1		06/05/18 18:43	16887-00-6
----------	--------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-12		Lab ID: 35395247011		Collected: 05/31/18 15:39		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.088	mg/L	0.050	0.035	1		06/13/18 16:04	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	6.7	mg/L	0.25	0.12	5		06/01/18 08:58	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-12 Dup Lab ID: 35395247012 Collected: 05/31/18 15:39 Received: 05/31/18 17:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.55	Std. Units			1		05/31/18 15:39		
Field Temperature	25.6	deg C			1		05/31/18 15:39		
Field Specific Conductance	707	umhos/cm			1		05/31/18 15:39		
Oxygen, Dissolved	1.50	mg/L			1		05/31/18 15:39	7782-44-7	
Turbidity	1.60	NTU			1		05/31/18 15:39		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 21:22	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 21:22	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	34.0	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:39	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:39	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:39	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:39	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:39	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:39	7440-50-8	
Iron	72.0	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 17:39	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:39	7440-02-0	
Selenium	21.7	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 17:39	7782-49-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 17:39	7440-66-6	
Silver	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:39	7440-22-4	
Sodium	4.4	mg/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:39	7440-23-5	
Vanadium	35.5	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:39	7440-62-2	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	2.4	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:00	7440-36-0	
Arsenic	1.9	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:00	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:00	7439-92-1	
Selenium	19.3	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:00	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:00	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/01/18 16:44	06/05/18 14:32	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/07/18 11:08	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/07/18 11:08	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/07/18 11:08	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/07/18 11:08	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/07/18 11:08	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/07/18 11:08	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/07/18 11:08	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-12 Dup **Lab ID: 35395247012** Collected: 05/31/18 15:39 Received: 05/31/18 17:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/07/18 11:08	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/07/18 11:08	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/07/18 11:08	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/07/18 11:08	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/07/18 11:08	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/07/18 11:08	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/07/18 11:08	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/07/18 11:08	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/07/18 11:08	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/07/18 11:08	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/07/18 11:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/07/18 11:08	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/07/18 11:08	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/07/18 11:08	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/07/18 11:08	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/07/18 11:08	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/07/18 11:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		06/07/18 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-135		1		06/07/18 11:08	17060-07-0	
Toluene-d8 (S)	107	%	89-112		1		06/07/18 11:08	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	455	mg/L	5.0	5.0	1		06/01/18 14:45
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	5.1	mg/L	5.0	2.5	1		06/05/18 19:05	16887-00-6
----------	------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: GW-12 Dup		Lab ID: 35395247012		Collected: 05/31/18 15:39		Received: 05/31/18 17:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.11	mg/L	0.050	0.035	1		06/13/18 16:07	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	5.6	mg/L	0.25	0.12	5		06/01/18 09:00	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Sample: Trip Blank		Lab ID: 35395247013	Collected: 05/31/18 12:30	Received: 05/31/18 17:40	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/02/18 02:56	06/04/18 21:52	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/02/18 02:56	06/04/18 21:52	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	451564	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

METHOD BLANK:	2446089	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	06/05/18 13:45	

LABORATORY CONTROL SAMPLE: 2446090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2446091 2446092

Parameter	Units	35395246003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.1	104	103	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	452344	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011		

METHOD BLANK:	2449794	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	06/06/18 18:08	
Beryllium	ug/L	0.50 U	1.0	0.50	06/06/18 18:08	
Cadmium	ug/L	0.50 U	1.0	0.50	06/06/18 18:08	
Chromium	ug/L	2.5 U	5.0	2.5	06/06/18 18:08	
Cobalt	ug/L	5.0 U	10.0	5.0	06/06/18 18:08	
Copper	ug/L	2.5 U	5.0	2.5	06/06/18 18:08	
Iron	ug/L	20.0 U	40.0	20.0	06/06/18 18:08	
Nickel	ug/L	2.5 U	5.0	2.5	06/06/18 18:08	
Selenium	ug/L	7.5 U	15.0	7.5	06/06/18 18:08	
Silver	ug/L	2.5 U	5.0	2.5	06/06/18 18:08	
Sodium	mg/L	0.50 U	1.0	0.50	06/06/18 18:08	
Vanadium	ug/L	5.0 U	10.0	5.0	06/06/18 18:08	
Zinc	ug/L	10.0 U	20.0	10.0	06/06/18 18:08	

LABORATORY CONTROL SAMPLE: 2449795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	271	108	80-120	
Beryllium	ug/L	25	25.9	104	80-120	
Cadmium	ug/L	25	26.1	104	80-120	
Chromium	ug/L	250	267	107	80-120	
Cobalt	ug/L	250	267	107	80-120	
Copper	ug/L	250	261	104	80-120	
Iron	ug/L	2500	2680	107	80-120	
Nickel	ug/L	250	266	106	80-120	
Selenium	ug/L	250	259	104	80-120	
Silver	ug/L	25	26.3	105	80-120	
Sodium	mg/L	12.5	13.4	107	80-120	
Vanadium	ug/L	250	264	106	80-120	
Zinc	ug/L	1250	1310	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449796 2449797

Parameter	Units	35395246004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	33.0	250	250	298	288	106	102	75-125	3	20	
Beryllium	ug/L	0.50 U	25	25	26.1	25.6	105	103	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449796 2449797												
Parameter	Units	35395246004		MS	MSD	MS		MSD	MS		MSD	Max
		Result		Spike Conc.	Spike Conc.	Result	Result	Result	% Rec	% Rec	Limits	
Cadmium	ug/L	0.50 U		25	25	25.3	24.7	101	98	75-125	2	20
Chromium	ug/L	2.5 U		250	250	264	258	106	103	75-125	2	20
Cobalt	ug/L	5.0 U		250	250	264	258	106	103	75-125	2	20
Copper	ug/L	2.5 U		250	250	266	260	106	104	75-125	2	20
Iron	ug/L	215		2500	2500	2860	2780	106	102	75-125	3	20
Nickel	ug/L	2.5 U		250	250	261	256	104	102	75-125	2	20
Selenium	ug/L	7.5 U		250	250	251	248	100	99	75-125	2	20
Silver	ug/L	2.5 U		25	25	26.4	25.9	106	103	75-125	2	20
Sodium	mg/L	75.3		12.5	12.5	84.8	81.8	75	52	75-125	4	20 J(M1)
Vanadium	ug/L	5.0 U		250	250	268	262	106	104	75-125	2	20
Zinc	ug/L	10.0 U		1250	1250	1260	1240	101	99	75-125	2	20

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35395247

QC Batch: 452740 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35395247012

METHOD BLANK: 2452460 Matrix: Water
Associated Lab Samples: 35395247012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Beryllium	ug/L	0.50 U	1.0	0.50	06/07/18 17:34	
Cadmium	ug/L	0.50 U	1.0	0.50	06/07/18 17:34	
Chromium	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Cobalt	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Copper	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Iron	ug/L	20.0 U	40.0	20.0	06/07/18 17:34	
Nickel	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Selenium	ug/L	7.5 U	15.0	7.5	06/07/18 17:34	
Silver	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Sodium	mg/L	0.50 U	1.0	0.50	06/07/18 17:34	
Vanadium	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Zinc	ug/L	10.0 U	20.0	10.0	06/07/18 17:34	

LABORATORY CONTROL SAMPLE: 2452461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	260	104	80-120	
Beryllium	ug/L	25	25.2	101	80-120	
Cadmium	ug/L	25	26.0	104	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	258	103	80-120	
Copper	ug/L	250	248	99	80-120	
Iron	ug/L	2500	2600	104	80-120	
Nickel	ug/L	250	262	105	80-120	
Selenium	ug/L	250	259	104	80-120	
Silver	ug/L	25	24.9	100	80-120	
Sodium	mg/L	12.5	12.8	102	80-120	
Vanadium	ug/L	250	254	102	80-120	
Zinc	ug/L	1250	1300	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452462 2452463

Parameter	Units	35395247012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	34.0	250	250	289	292	102	103	75-125	1	20	
Beryllium	ug/L	0.50 U	25	25	25.1	25.3	100	101	75-125	1	20	
Cadmium	ug/L	0.50 U	25	25	25.1	25.4	100	101	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452462 2452463											
Parameter	Units	35395247012		MS	MSD	2452463		MS	MSD	% Rec	Max
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Chromium	ug/L	2.5 U		250	250	254	257	102	103	75-125	1 20
Cobalt	ug/L	5.0 U		250	250	254	257	101	102	75-125	1 20
Copper	ug/L	2.5 U		250	250	251	254	100	102	75-125	1 20
Iron	ug/L	72.0		2500	2500	2640	2660	103	103	75-125	1 20
Nickel	ug/L	2.5 U		250	250	256	258	102	103	75-125	1 20
Selenium	ug/L	21.7		250	250	272	273	100	101	75-125	1 20
Silver	ug/L	2.5 U		25	25	24.7	25.0	99	100	75-125	1 20
Sodium	mg/L	4.4		12.5	12.5	17.1	17.1	102	102	75-125	0 20
Vanadium	ug/L	35.5		250	250	286	289	100	101	75-125	1 20
Zinc	ug/L	10.0 U		1250	1250	1240	1260	99	101	75-125	1 20

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	452345	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011		

METHOD BLANK:	2449808	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	06/06/18 20:17	
Arsenic	ug/L	0.50 U	1.0	0.50	06/06/18 20:17	
Lead	ug/L	0.50 U	1.0	0.50	06/06/18 20:17	
Selenium	ug/L	0.50 U	1.0	0.50	06/06/18 20:17	
Thallium	ug/L	0.50 U	1.0	0.50	06/06/18 20:17	

LABORATORY CONTROL SAMPLE: 2449809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.4	101	80-120	
Arsenic	ug/L	50	50.9	102	80-120	
Lead	ug/L	50	54.1	108	80-120	
Selenium	ug/L	50	49.5	99	80-120	
Thallium	ug/L	50	53.8	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449810 2449811

Parameter	Units	35395247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	51.4	50.8	102	101	75-125	1	20	
Arsenic	ug/L	4.7	50	50	58.3	53.2	107	97	75-125	9	20	
Lead	ug/L	0.87 I	50	50	55.5	51.5	109	101	75-125	7	20	
Selenium	ug/L	1.1	50	50	53.0	54.7	104	107	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	55.4	50.7	111	101	75-125	9	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35395247

QC Batch: 452741 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35395247012

METHOD BLANK: 2452465 Matrix: Water
Associated Lab Samples: 35395247012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Arsenic	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Lead	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Selenium	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Thallium	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	

LABORATORY CONTROL SAMPLE: 2452466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.6	101	80-120	
Arsenic	ug/L	50	49.0	98	80-120	
Lead	ug/L	50	52.4	105	80-120	
Selenium	ug/L	50	48.2	96	80-120	
Thallium	ug/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452467 2452468

Parameter	Units	35395484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.1	49.8	100	100	75-125	1	20	
Arsenic	ug/L	0.50 U	50	50	48.8	48.9	97	98	75-125	0	20	
Lead	ug/L	0.50 U	50	50	53.0	53.0	106	106	75-125	0	20	
Selenium	ug/L	0.50 U	50	50	49.5	48.1	99	96	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	50.7	51.3	101	103	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch: 452088 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35395247001, 35395247002, 35395247003, 35395247004

METHOD BLANK: 2448571 Matrix: Water
Associated Lab Samples: 35395247001, 35395247002, 35395247003, 35395247004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/04/18 22:48	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/04/18 22:48	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
2-Butanone (MEK)	ug/L	84.4	10.0	5.0	06/04/18 22:48	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Acetone	ug/L	16.4 I	20.0	10.0	06/04/18 22:48	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Benzene	ug/L	0.10 U	1.0	0.10	06/04/18 22:48	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/04/18 22:48	
Bromoform	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/04/18 22:48	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/04/18 22:48	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/04/18 22:48	
Chloroform	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/04/18 22:48	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/04/18 22:48	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/04/18 22:48	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/04/18 22:48	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/04/18 22:48	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/04/18 22:48	
Styrene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Toluene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/04/18 22:48	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/04/18 22:48	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

METHOD BLANK: 2448571

Matrix: Water

Associated Lab Samples: 35395247001, 35395247002, 35395247003, 35395247004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/04/18 22:48	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/04/18 22:48	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/04/18 22:48	
1,2-Dichloroethane-d4 (S)	%	116	75-135		06/04/18 22:48	
4-Bromofluorobenzene (S)	%	93	89-111		06/04/18 22:48	
Toluene-d8 (S)	%	113	89-112		06/04/18 22:48	J(S0)

LABORATORY CONTROL SAMPLE: 2448572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.3	96	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	65-134	
1,2,3-Trichloropropane	ug/L	20	18.4	92	65-135	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	20	19.3	96	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	40	28.9	72	61-129	
2-Hexanone	ug/L	40	33.6	84	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	33.8	85	70-130	
Acetone	ug/L	40	30.7	77	44-155	
Acrylonitrile	ug/L	200	180	90	59-138	
Benzene	ug/L	20	19.7	99	70-130	
Bromochloromethane	ug/L	20	19.3	97	70-130	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	17.6	88	62-129	
Bromomethane	ug/L	20	18.1	90	10-179	
Carbon disulfide	ug/L	20	19.4	97	40-156	
Carbon tetrachloride	ug/L	20	19.3	96	66-127	
Chlorobenzene	ug/L	20	19.9	100	70-130	
Chloroethane	ug/L	20	22.5	113	57-142	
Chloroform	ug/L	20	19.7	98	70-130	
Chloromethane	ug/L	20	21.6	108	45-150	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	19.2	96	70-130	
Dibromomethane	ug/L	20	18.9	94	70-130	
Ethylbenzene	ug/L	20	18.7	94	70-130	
Iodomethane	ug/L	40	44.0	110	21-150	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

LABORATORY CONTROL SAMPLE: 2448572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	23.2	116	65-127	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	17.1	85	48-155	
Toluene	ug/L	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	68-126	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.5	98	46-138	
Trichloroethene	ug/L	20	19.1	95	69-129	
Trichlorofluoromethane	ug/L	20	21.1	106	60-144	
Vinyl acetate	ug/L	20	20.4	102	70-130	
Vinyl chloride	ug/L	20	22.7	114	67-136	
Xylene (Total)	ug/L	60	58.1	97	70-130	
1,2-Dichloroethane-d4 (S)	%			101	75-135	
4-Bromofluorobenzene (S)	%			96	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2449824

Parameter	Units	35395452002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.0	90	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.3	97	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	20.7	103	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.7	94	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.8	98	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.7	92	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.8	94	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.3	100	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	26.7	67	61-129	
2-Hexanone	ug/L	5.0 U	40	30.0	75	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	29.0	72	70-130	
Acetone	ug/L	10.0 U	40	26.2	65	44-155	
Acrylonitrile	ug/L	5.0 U	200	172	86	59-138	
Benzene	ug/L	0.10 U	20	19.1	96	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.2	96	70-130	
Bromodichloromethane	ug/L	0.27 U	20	19.6	98	70-130	
Bromoform	ug/L	0.50 U	20	16.7	83	62-129	
Bromomethane	ug/L	0.50 U	20	13.3	67	10-179	
Carbon disulfide	ug/L	5.0 U	20	16.7	82	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	19.6	98	66-127	
Chlorobenzene	ug/L	0.50 U	20	19.3	96	70-130	
Chloroethane	ug/L	0.50 U	20	24.7	124	57-142	
Chloroform	ug/L	0.50 U	20	19.5	97	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

MATRIX SPIKE SAMPLE: 2449824		35395452002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	21.2	106	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.1	86	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.6	88	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	89	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.7	93	70-130	
Iodomethane	ug/L	0.50 U	40	28.8	72	21-150	
Methylene Chloride	ug/L	2.5 U	20	20.8	104	65-127	
Styrene	ug/L	0.50 U	20	19.5	97	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.5	77	48-155	
Toluene	ug/L	0.50 U	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.7	93	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.7	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	15.9	79	46-138	
Trichloroethene	ug/L	0.50 U	20	18.4	92	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	22.3	112	60-144	
Vinyl acetate	ug/L	1.0 U	20	15.1	76	70-130	
Vinyl chloride	ug/L	0.50 U	20	23.3	116	67-136	
Xylene (Total)	ug/L	1.0 U	60	56.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%				106	75-135	
4-Bromofluorobenzene (S)	%				96	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2449823

Parameter	Units	35395452001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

SAMPLE DUPLICATE: 2449823

Parameter	Units	35395452001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	103	101	1	40	
4-Bromofluorobenzene (S)	%	94	96	3	40	
Toluene-d8 (S)	%	106	103	3	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch: 452245 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35395247005, 35395247006, 35395247007, 35395247008, 35395247009

METHOD BLANK: 2449309 Matrix: Water
Associated Lab Samples: 35395247005, 35395247006, 35395247007, 35395247008, 35395247009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/05/18 12:01	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/05/18 12:01	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	06/05/18 12:01	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/05/18 12:01	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/05/18 12:01	
Acetone	ug/L	10.0 U	20.0	10.0	06/05/18 12:01	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/05/18 12:01	
Benzene	ug/L	0.10 U	1.0	0.10	06/05/18 12:01	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/05/18 12:01	
Bromoform	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/05/18 12:01	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/05/18 12:01	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/05/18 12:01	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/05/18 12:01	
Chloroform	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/05/18 12:01	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/05/18 12:01	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/05/18 12:01	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/05/18 12:01	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/05/18 12:01	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/05/18 12:01	
Styrene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Toluene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/05/18 12:01	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/05/18 12:01	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

METHOD BLANK: 2449309

Matrix: Water

Associated Lab Samples: 35395247005, 35395247006, 35395247007, 35395247008, 35395247009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/05/18 12:01	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/05/18 12:01	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/05/18 12:01	
1,2-Dichloroethane-d4 (S)	%	110	75-135		06/05/18 12:01	
4-Bromofluorobenzene (S)	%	91	89-111		06/05/18 12:01	
Toluene-d8 (S)	%	104	89-112		06/05/18 12:01	

LABORATORY CONTROL SAMPLE: 2449310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.4	87	70-130	
1,1,1-Trichloroethane	ug/L	20	17.6	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,2-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1-Dichloroethane	ug/L	20	17.8	89	70-130	
1,1-Dichloroethene	ug/L	20	17.6	88	65-134	
1,2,3-Trichloropropane	ug/L	20	18.7	93	65-135	
1,2-Dichlorobenzene	ug/L	20	18.3	92	70-130	
1,2-Dichloroethane	ug/L	20	18.1	91	70-130	
1,2-Dichloropropane	ug/L	20	18.1	90	70-130	
1,4-Dichlorobenzene	ug/L	20	18.8	94	70-130	
2-Butanone (MEK)	ug/L	40	34.1	85	61-129	
2-Hexanone	ug/L	40	37.3	93	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	38.4	96	70-130	
Acetone	ug/L	40	36.9	92	44-155	
Acrylonitrile	ug/L	200	182	91	59-138	
Benzene	ug/L	20	18.0	90	70-130	
Bromochloromethane	ug/L	20	18.2	91	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	16.6	83	62-129	
Bromomethane	ug/L	20	17.7	89	10-179	
Carbon disulfide	ug/L	20	19.1	96	40-156	
Carbon tetrachloride	ug/L	20	16.8	84	66-127	
Chlorobenzene	ug/L	20	17.9	90	70-130	
Chloroethane	ug/L	20	19.9	100	57-142	
Chloroform	ug/L	20	18.3	91	70-130	
Chloromethane	ug/L	20	16.6	83	45-150	
cis-1,2-Dichloroethene	ug/L	20	16.9	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.7	89	70-130	
Dibromochloromethane	ug/L	20	17.0	85	70-130	
Dibromomethane	ug/L	20	17.3	86	70-130	
Ethylbenzene	ug/L	20	17.1	86	70-130	
Iodomethane	ug/L	40	36.3	91	21-150	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

LABORATORY CONTROL SAMPLE: 2449310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	21.8	109	65-127	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	17.0	85	48-155	
Toluene	ug/L	20	16.9	84	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	85	68-126	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.8	99	46-138	
Trichloroethene	ug/L	20	17.0	85	69-129	
Trichlorofluoromethane	ug/L	20	17.6	88	60-144	
Vinyl acetate	ug/L	20	21.9	110	70-130	
Vinyl chloride	ug/L	20	18.8	94	67-136	
Xylene (Total)	ug/L	60	53.3	89	70-130	
1,2-Dichloroethane-d4 (S)	%			104	75-135	
4-Bromofluorobenzene (S)	%			98	89-111	
Toluene-d8 (S)	%			98	89-112	

MATRIX SPIKE SAMPLE: 2450567

Parameter	Units	35395247006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.4	92	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.6	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.5	87	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.8	89	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.8	94	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	21.0	105	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	17.1	86	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.8	94	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.2	91	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	18.6	93	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	30.0	75	61-129	
2-Hexanone	ug/L	5.0 U	40	37.1	93	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.0	93	70-130	
Acetone	ug/L	10.0 U	40	31.6	79	44-155	
Acrylonitrile	ug/L	5.0 U	200	154	77	59-138	
Benzene	ug/L	0.10 U	20	18.6	93	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.2	91	70-130	
Bromodichloromethane	ug/L	0.27 U	20	19.8	99	70-130	
Bromoform	ug/L	0.50 U	20	16.9	85	62-129	
Bromomethane	ug/L	0.50 U	20	16.6	83	10-179	
Carbon disulfide	ug/L	5.0 U	20	21.6	107	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	19.4	97	66-127	
Chlorobenzene	ug/L	0.50 U	20	18.7	93	70-130	
Chloroethane	ug/L	0.50 U	20	23.2	116	57-142	
Chloroform	ug/L	0.50 U	20	18.8	94	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

MATRIX SPIKE SAMPLE: 2450567		35395247006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	22.9	115	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.6	88	70-130	
Dibromochloromethane	ug/L	0.26 U	20	18.1	91	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	88	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.4	92	70-130	
Iodomethane	ug/L	0.50 U	40	69.0	173	21-150 J(M1)	
Methylene Chloride	ug/L	2.5 U	20	19.9	99	65-127	
Styrene	ug/L	0.50 U	20	18.8	94	70-130	
Tetrachloroethene	ug/L	0.50 U	20	14.8	74	48-155	
Toluene	ug/L	0.50 U	20	18.1	90	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.2	91	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	18.0	90	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	17.6	88	46-138	
Trichloroethene	ug/L	0.50 U	20	17.7	88	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	22.2	111	60-144	
Vinyl acetate	ug/L	1.0 U	20	18.9	94	70-130	
Vinyl chloride	ug/L	0.50 U	20	24.9	125	67-136	
Xylene (Total)	ug/L	1.0 U	60	56.3	94	70-130	
1,2-Dichloroethane-d4 (S)	%				101	75-135	
4-Bromofluorobenzene (S)	%				99	89-111	
Toluene-d8 (S)	%				98	89-112	

SAMPLE DUPLICATE: 2450566

Parameter	Units	35395247005	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

SAMPLE DUPLICATE: 2450566

Parameter	Units	35395247005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	110	112	2	40	
4-Bromofluorobenzene (S)	%	90	92	2	40	
Toluene-d8 (S)	%	102	104	2	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch: 452708 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35395247010, 35395247011, 35395247012

METHOD BLANK: 2452120 Matrix: Water

Associated Lab Samples: 35395247010, 35395247011, 35395247012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/07/18 01:32	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/07/18 01:32	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
Acetone	ug/L	10.0 U	20.0	10.0	06/07/18 01:32	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
Benzene	ug/L	0.10 U	1.0	0.10	06/07/18 01:32	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/07/18 01:32	
Bromoform	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/07/18 01:32	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/07/18 01:32	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/07/18 01:32	
Chloroform	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/07/18 01:32	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/07/18 01:32	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/07/18 01:32	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/07/18 01:32	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/07/18 01:32	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/07/18 01:32	
Styrene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Toluene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/07/18 01:32	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/07/18 01:32	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

METHOD BLANK: 2452120

Matrix: Water

Associated Lab Samples: 35395247010, 35395247011, 35395247012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/07/18 01:32	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/07/18 01:32	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/07/18 01:32	
1,2-Dichloroethane-d4 (S)	%	111	75-135		06/07/18 01:32	
4-Bromofluorobenzene (S)	%	95	89-111		06/07/18 01:32	
Toluene-d8 (S)	%	109	89-112		06/07/18 01:32	

LABORATORY CONTROL SAMPLE: 2452121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	21.4	107	65-134	
1,2,3-Trichloropropane	ug/L	20	17.0	85	65-135	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,4-Dichlorobenzene	ug/L	20	20.7	104	70-130	
2-Butanone (MEK)	ug/L	40	30.2	75	61-129	
2-Hexanone	ug/L	40	35.2	88	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.9	92	70-130	
Acetone	ug/L	40	31.1	78	44-155	
Acrylonitrile	ug/L	200	181	91	59-138	
Benzene	ug/L	20	20.1	101	70-130	
Bromochloromethane	ug/L	20	19.4	97	70-130	
Bromodichloromethane	ug/L	20	21.9	109	70-130	
Bromoform	ug/L	20	20.2	101	62-129	
Bromomethane	ug/L	20	18.9	94	10-179	
Carbon disulfide	ug/L	20	18.8	94	40-156	
Carbon tetrachloride	ug/L	20	20.9	105	66-127	
Chlorobenzene	ug/L	20	19.5	98	70-130	
Chloroethane	ug/L	20	24.1	120	57-142	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	21.6	108	45-150	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.7	103	70-130	
Dibromochloromethane	ug/L	20	21.1	105	70-130	
Dibromomethane	ug/L	20	19.2	96	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	40	34.3	86	21-150	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

LABORATORY CONTROL SAMPLE: 2452121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	20.3	101	65-127	
Styrene	ug/L	20	20.8	104	70-130	
Tetrachloroethene	ug/L	20	18.4	92	48-155	
Toluene	ug/L	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	93	68-126	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	20.5	102	46-138	
Trichloroethene	ug/L	20	18.8	94	69-129	
Trichlorofluoromethane	ug/L	20	22.6	113	60-144	
Vinyl acetate	ug/L	20	21.7	109	70-130	
Vinyl chloride	ug/L	20	24.7	123	67-136	
Xylene (Total)	ug/L	60	59.7	100	70-130	
1,2-Dichloroethane-d4 (S)	%			104	75-135	
4-Bromofluorobenzene (S)	%			98	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2453570

Parameter	Units	35395481004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	18.7	94	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.2	91	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.2	91	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	19.9	100	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	21.3	107	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.6	93	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	19.5	97	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	19.3	96	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	20.8	104	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	26.7	67	61-129	
2-Hexanone	ug/L	5.0 U	40	30.0	75	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	29.9	75	70-130	
Acetone	ug/L	10.0 U	40	26.6	67	44-155	
Acrylonitrile	ug/L	5.0 U	200	163	81	59-138	
Benzene	ug/L	0.10 U	20	19.8	99	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.0	95	70-130	
Bromodichloromethane	ug/L	0.27 U	20	20.4	102	70-130	
Bromoform	ug/L	0.50 U	20	16.5	83	62-129	
Bromomethane	ug/L	0.50 U	20	17.8	89	10-179	
Carbon disulfide	ug/L	5.0 U	20	19.2	96	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	20.4	102	66-127	
Chlorobenzene	ug/L	0.68 I	20	20.6	99	70-130	
Chloroethane	ug/L	0.50 U	20	26.0	130	57-142	
Chloroform	ug/L	0.50 U	20	20.0	100	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

MATRIX SPIKE SAMPLE: 2453570		35395481004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	19.1	96	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	18.6	93	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.7	84	70-130	
Dibromochloromethane	ug/L	0.26 U	20	18.1	91	70-130	
Dibromomethane	ug/L	0.50 U	20	17.7	89	70-130	
Ethylbenzene	ug/L	0.50 U	20	19.1	95	70-130	
Iodomethane	ug/L	0.50 U	40	32.3	81	21-150	
Methylene Chloride	ug/L	2.5 U	20	21.8	109	65-127	
Styrene	ug/L	0.50 U	20	18.3	92	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.8	79	48-155	
Toluene	ug/L	0.50 U	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.7	94	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	17.4	87	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	16.7	84	46-138	
Trichloroethene	ug/L	0.50 U	20	19.0	95	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	23.0	115	60-144	
Vinyl acetate	ug/L	1.0 U	20	16.0	80	70-130	
Vinyl chloride	ug/L	0.50 U	20	24.8	124	67-136	
Xylene (Total)	ug/L	1.0 U	60	57.1	95	70-130	
1,2-Dichloroethane-d4 (S)	%				104	75-135	
4-Bromofluorobenzene (S)	%				88	89-111 J(S0)	
Toluene-d8 (S)	%				99	89-112	

SAMPLE DUPLICATE: 2453569

Parameter	Units	35395481001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

SAMPLE DUPLICATE: 2453569

Parameter	Units	35395481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.90 I	0.91 I		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	113	114	1	40	
4-Bromofluorobenzene (S)	%	91	90	0	40	
Toluene-d8 (S)	%	103	104	1	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	451593	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012, 35395247013		

METHOD BLANK:	2446239	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012, 35395247013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	06/04/18 16:32	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	06/04/18 16:32	

LABORATORY CONTROL SAMPLE: 2446240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.20	79	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	81	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2446985 2446986

Parameter	Units	35395247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0061 U	.44	.44	0.42	0.46	96	105	60-140	9	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	.44	.44	0.42	0.44	95	100	60-140	5	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	451490	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Diss. Solids Tampa
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

METHOD BLANK:	2445819	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	06/01/18 14:32	

LABORATORY CONTROL SAMPLE: 2445820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2445821

Parameter	Units	35395239001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2840	2820	1	5	

SAMPLE DUPLICATE: 2445822

Parameter	Units	35395247003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	277	1	5	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	452248	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

METHOD BLANK:	2449326	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	06/05/18 12:50	

LABORATORY CONTROL SAMPLE: 2449327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2449328				2449329								
Parameter	Units	35395247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.9	50	50	66.8	66.9	102	102	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2449377	2449378									
Parameter	Units	35395716001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.7	50	50	76.3	76.5	105	105	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch: 454074 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35395247001, 35395247002, 35395247003, 35395247004

METHOD BLANK: 2459910 Matrix: Water
Associated Lab Samples: 35395247001, 35395247002, 35395247003, 35395247004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	06/13/18 13:48	

LABORATORY CONTROL SAMPLE: 2459911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE: 2459913

Parameter	Units	35396704032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	1	1.4	106	90-110	

SAMPLE DUPLICATE: 2459912

Parameter	Units	35396704032 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	0.32	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	454305	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

METHOD BLANK:	2460845	Matrix:	Water
Associated Lab Samples:	35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	06/13/18 15:40	

LABORATORY CONTROL SAMPLE:	2460846					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	104	90-110	

MATRIX SPIKE SAMPLE:	2460848						
		35395247005	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.086	1	0.78	68	90-110	J(M1)

SAMPLE DUPLICATE:	2460847					
Parameter	Units	35395247005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.086	0.090	4	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

QC Batch:	451445	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

METHOD BLANK:	2445620	Matrix:	Water
Associated Lab Samples:	35395247001, 35395247002, 35395247003, 35395247004, 35395247005, 35395247006, 35395247007, 35395247008, 35395247009, 35395247010, 35395247011, 35395247012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	06/01/18 07:38	

SAMPLE DUPLICATE: 2445622

Parameter	Units	35395246001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2445624

Parameter	Units	35395247007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.13	0.13	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

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

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.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

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

J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35395247001	GW-18				
35395247002	GW-19				
35395247003	GW-20				
35395247004	GW-21				
35395247005	GW-22				
35395247006	GW-23				
35395247007	GW-24				
35395247008	GW-15				
35395247009	GW-16				
35395247010	GW-17				
35395247011	GW-12				
35395247012	GW-12 Dup				
35395247001	GW-18	EPA 8011	451593	EPA 8011	451823
35395247002	GW-19	EPA 8011	451593	EPA 8011	451823
35395247003	GW-20	EPA 8011	451593	EPA 8011	451823
35395247004	GW-21	EPA 8011	451593	EPA 8011	451823
35395247005	GW-22	EPA 8011	451593	EPA 8011	451823
35395247006	GW-23	EPA 8011	451593	EPA 8011	451823
35395247007	GW-24	EPA 8011	451593	EPA 8011	451823
35395247008	GW-15	EPA 8011	451593	EPA 8011	451823
35395247009	GW-16	EPA 8011	451593	EPA 8011	451823
35395247010	GW-17	EPA 8011	451593	EPA 8011	451823
35395247011	GW-12	EPA 8011	451593	EPA 8011	451823
35395247012	GW-12 Dup	EPA 8011	451593	EPA 8011	451823
35395247013	Trip Blank	EPA 8011	451593	EPA 8011	451823
35395247001	GW-18	EPA 3010	452344	EPA 6010	452387
35395247002	GW-19	EPA 3010	452344	EPA 6010	452387
35395247003	GW-20	EPA 3010	452344	EPA 6010	452387
35395247004	GW-21	EPA 3010	452344	EPA 6010	452387
35395247005	GW-22	EPA 3010	452344	EPA 6010	452387
35395247006	GW-23	EPA 3010	452344	EPA 6010	452387
35395247007	GW-24	EPA 3010	452344	EPA 6010	452387
35395247008	GW-15	EPA 3010	452344	EPA 6010	452387
35395247009	GW-16	EPA 3010	452344	EPA 6010	452387
35395247010	GW-17	EPA 3010	452344	EPA 6010	452387
35395247011	GW-12	EPA 3010	452344	EPA 6010	452387
35395247012	GW-12 Dup	EPA 3010	452740	EPA 6010	452747
35395247001	GW-18	EPA 3010	452345	EPA 6020	452388
35395247002	GW-19	EPA 3010	452345	EPA 6020	452388
35395247003	GW-20	EPA 3010	452345	EPA 6020	452388
35395247004	GW-21	EPA 3010	452345	EPA 6020	452388
35395247005	GW-22	EPA 3010	452345	EPA 6020	452388
35395247006	GW-23	EPA 3010	452345	EPA 6020	452388
35395247007	GW-24	EPA 3010	452345	EPA 6020	452388
35395247008	GW-15	EPA 3010	452345	EPA 6020	452388
35395247009	GW-16	EPA 3010	452345	EPA 6020	452388
35395247010	GW-17	EPA 3010	452345	EPA 6020	452388

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35395247011	GW-12	EPA 3010	452345	EPA 6020	452388
35395247012	GW-12 Dup	EPA 3010	452741	EPA 6020	452748
35395247001	GW-18	EPA 7470	451564	EPA 7470	451878
35395247002	GW-19	EPA 7470	451564	EPA 7470	451878
35395247003	GW-20	EPA 7470	451564	EPA 7470	451878
35395247004	GW-21	EPA 7470	451564	EPA 7470	451878
35395247005	GW-22	EPA 7470	451564	EPA 7470	451878
35395247006	GW-23	EPA 7470	451564	EPA 7470	451878
35395247007	GW-24	EPA 7470	451564	EPA 7470	451878
35395247008	GW-15	EPA 7470	451564	EPA 7470	451878
35395247009	GW-16	EPA 7470	451564	EPA 7470	451878
35395247010	GW-17	EPA 7470	451564	EPA 7470	451878
35395247011	GW-12	EPA 7470	451564	EPA 7470	451878
35395247012	GW-12 Dup	EPA 7470	451564	EPA 7470	451878
35395247001	GW-18	EPA 8260	452088		
35395247002	GW-19	EPA 8260	452088		
35395247003	GW-20	EPA 8260	452088		
35395247004	GW-21	EPA 8260	452088		
35395247005	GW-22	EPA 8260	452245		
35395247006	GW-23	EPA 8260	452245		
35395247007	GW-24	EPA 8260	452245		
35395247008	GW-15	EPA 8260	452245		
35395247009	GW-16	EPA 8260	452245		
35395247010	GW-17	EPA 8260	452708		
35395247011	GW-12	EPA 8260	452708		
35395247012	GW-12 Dup	EPA 8260	452708		
35395247001	GW-18	SM 2540C	451490		
35395247002	GW-19	SM 2540C	451490		
35395247003	GW-20	SM 2540C	451490		
35395247004	GW-21	SM 2540C	451490		
35395247005	GW-22	SM 2540C	451490		
35395247006	GW-23	SM 2540C	451490		
35395247007	GW-24	SM 2540C	451490		
35395247008	GW-15	SM 2540C	451490		
35395247009	GW-16	SM 2540C	451490		
35395247010	GW-17	SM 2540C	451490		
35395247011	GW-12	SM 2540C	451490		
35395247012	GW-12 Dup	SM 2540C	451490		
35395247001	GW-18	EPA 300.0	452248		
35395247002	GW-19	EPA 300.0	452248		
35395247003	GW-20	EPA 300.0	452248		
35395247004	GW-21	EPA 300.0	452248		
35395247005	GW-22	EPA 300.0	452248		
35395247006	GW-23	EPA 300.0	452248		
35395247007	GW-24	EPA 300.0	452248		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395247

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35395247008	GW-15	EPA 300.0	452248		
35395247009	GW-16	EPA 300.0	452248		
35395247010	GW-17	EPA 300.0	452248		
35395247011	GW-12	EPA 300.0	452248		
35395247012	GW-12 Dup	EPA 300.0	452248		
35395247001	GW-18	EPA 350.1	454074		
35395247002	GW-19	EPA 350.1	454074		
35395247003	GW-20	EPA 350.1	454074		
35395247004	GW-21	EPA 350.1	454074		
35395247005	GW-22	EPA 350.1	454305		
35395247006	GW-23	EPA 350.1	454305		
35395247007	GW-24	EPA 350.1	454305		
35395247008	GW-15	EPA 350.1	454305		
35395247009	GW-16	EPA 350.1	454305		
35395247010	GW-17	EPA 350.1	454305		
35395247011	GW-12	EPA 350.1	454305		
35395247012	GW-12 Dup	EPA 350.1	454305		
35395247001	GW-18	EPA 353.2	451445		
35395247002	GW-19	EPA 353.2	451445		
35395247003	GW-20	EPA 353.2	451445		
35395247004	GW-21	EPA 353.2	451445		
35395247005	GW-22	EPA 353.2	451445		
35395247006	GW-23	EPA 353.2	451445		
35395247007	GW-24	EPA 353.2	451445		
35395247008	GW-15	EPA 353.2	451445		
35395247009	GW-16	EPA 353.2	451445		
35395247010	GW-17	EPA 353.2	451445		
35395247011	GW-12	EPA 353.2	451445		
35395247012	GW-12 Dup	EPA 353.2	451445		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Section A
Required 0

**Section B
Required**

Section C

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled out.

MO#: 35395247



9780306465527

35395247

Page 76 of 88

Company:	Marietta County Landfill	Report To:	Bob Bennett	Invoice Information:
Address:	333 Lena Road	Copy To:		Attention:
	Bradenton, FL 34211			Company Name:
Email:		Purchase Order #:		Address:
Phone:	Fax:	Project Name:	Lena Rd Landfill (Existing Walls)	Pace Quote:
Requested Due Date:		Project #:		Pace Project Manager:
				carmon.meynarde@paceclabs.com,
				Pace Profile #:
				8100 Line 1
				Regulatory Agency:
				State / Location:

[illegible]

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: HODGARD BOWERS			
SIGNATURE of SAMPLER: H. Bowers			
DATE Signed: 5-31-18			
TEMP in C			
Received on Ice (Y/N)			
Custody Sealed Cooler (Y/N)			
Samples Intact (Y/N)			

	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

W0# : 35395247

PM: CEM **Due Date: 06/15/18**
CLIENT: MANCOU-SW

Date and Initials of person:
Examining contents: MVL
Label: 5/31/18
Deliver: ↓
pH: _____

Thermometer Used: T203 Date: 5/31/18 Time: 1740 Initials: MVL

State of Origin: FL

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C <u>4.1</u> (Visual) <u>0.0</u> (Correction Factor) <u>4.1</u> (Actual)	☒ Samples on ice, cooling process has begun
Cooler #2 Temp. °C <u>0.8</u> (Visual) <u>0.0</u> (Correction Factor) <u>0.8</u> (Actual)	☒ Samples on ice, cooling process has begun
Cooler #3 Temp. °C <u>1.6</u> (Visual) <u>0.0</u> (Correction Factor) <u>1.6</u> (Actual)	☒ Samples on ice, cooling process has begun
Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☒ Ground ☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Trip Blanks only present in cooler
that had samples GW-15, GW-16, GW-24

Project Manager Review: _____

Date: _____ Page 77 of 88

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD. LF		SITE LOCATION: LENA RD. BRADENTON, FL	
WELL NO: GW-18	SAMPLE ID:		DATE: 5-31-18

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): <u>6.29</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>20.50</u> feet - <u>6.29</u> feet X <u>516</u> gallons/foot = <u>2.2736</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>	PURGING INITIATED AT: <u>0748</u>	PURGING ENDED AT: <u>0812</u>	TOTAL VOLUME PURGED (gallons): <u>3.6</u>

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: H. BOGUES SPACE				SAMPLE(S) SIGNATURE(S): H. BOGUES			SAMPLING INITIATED AT: 08/13		SAMPLING ENDED AT: 0823	
PUMP OR TUBING DEPTH IN WELL (feet): 8'				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y ☒ N ☒		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP ☒ N				TUBING Y ☒ N (replaced)			DUPLICATE: Y ☒ N ☒			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0		CL, NO3 TDS		APP	
	1	PE	250 ml.	H1 NO3	↓		META/S		↓	
	1	PE	250 ml.	H2 SD4	↓		NH3		↓	
	2	CG	40 ml.	COOL	↓		EDB & DBCP		↓	
	3	CG	40 ml.	HCL	↓		8260		↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 78 of 88



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENARD LF</u>		SITE LOCATION: <u>LENARD, BRADENTON, FL</u>	
WELL NO: <u>GW-19</u>	SAMPLE ID:	DATE: <u>5-31-18</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>6.51</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>20.15</u> feet - <u>6.51</u> feet X <u>0.16</u> gallons/foot = <u>2.1824</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	PURGING INITIATED AT: <u>0836</u>	PURGING ENDED AT: <u>0859</u>	TOTAL VOLUME PURGED (gallons): <u>3.45</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>0851</u>	<u>2.25</u>	<u>2.25</u>	<u>0.15</u>	<u>6.71</u>	<u>5.78</u>	<u>26.3</u>	<u>416.4</u>	<u>1.12</u>	<u>3.04</u>	<u>TANNIC</u>	<u>NONE</u>
<u>0855</u>	<u>0.60</u>	<u>2.85</u>	<u>0.15</u>	<u>6.71</u>	<u>5.78</u>	<u>26.3</u>	<u>417.1</u>	<u>1.14</u>	<u>2.69</u>	"	"
<u>0859</u>	<u>0.60</u>	<u>3.45</u>	<u>0.15</u>	<u>6.71</u>	<u>5.77</u>	<u>26.3</u>	<u>417.2</u>	<u>1.07</u>	<u>2.50</u>	"	"
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

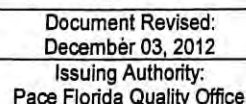
SAMPLING DATA

SAMPLED BY (PRINT/AFFILIATION): <u>H. Issues/PACE</u>		SAMPLER(S) SIGNATURE(S): <u>H. Issues</u>		SAMPLING INITIATED AT: <u>0900</u>	SAMPLING ENDED AT: <u>0910</u>				
PUMP OR TUBING DEPTH IN WELL (feet): <u>9'</u>		TUBING MATERIAL CODE: <u>HDP</u>		FIELD-FILTERED: Y <u>N</u>	FILTER SIZE: <u>0</u> μm				
FIELD DECONTAMINATION: PUMP <u>Y</u> N		TUBING Y <u>N</u> (replaced)		DUPLICATE: Y <u>N</u>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	<u>1</u>	<u>PE</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>	<u>8.7</u>	<u>CL, NO3, TDS</u>	<u>APP</u>	<u><300</u>
	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>HNO3</u>	<u>↓</u>	<u><2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>H2SO4</u>	<u>↓</u>	<u><2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>
	<u>2</u>	<u>CG</u>	<u>40mL</u>	<u>COOL</u>	<u>↓</u>	<u>8.7</u>	<u>EDB + DBCP</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>CG</u>	<u>40mL</u>	<u>HCL</u>	<u>↓</u>	<u><2</u>	<u>8260</u>	<u>↓</u>	<u>↓</u>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 79 of 88



Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LANDFILL		SITE LOCATION: LENA RD. BRADENTON FL	
WELL NO: GW-2	SAMPLE ID:	DATE: 5-31-18	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: H. Bosales (PACE)				SAMPLE(S) SIGNATURE(S): H. Bosales			SAMPLING INITIATED AT: 1022		SAMPLING ENDED AT: 1032	
PUMP OR TUBING - DEPTH IN WELL (feet): 15'				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y (N)		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced))							DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0	5.5	CLND3 TDS	APP	<300	
	1	PE	250 ml	H ₂ O3	↓	<2	METALS	↓	↓	
	1	PE	250 ml	H ₂ SO ₄	↓	<2	NH3	↓	↓	
	2	CG	40 ml	COOL	↓	5.5	EDB & DECP	↓	↓	
	3	CG	40 ml	HCL	↓	<2	8260	↓	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 81 of 88

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD, BRADENTON, FL	
WELL NO: GW-22	SAMPLE ID:		DATE: 5-31-18

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION				SAMPLER(S) SIGNATURE(S)			SAMPLING INITIATED AT		SAMPLING ENDED AT	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☐ N ☒		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y ☒ N ☐ TUBING Y ☐ N (replaced) ☒						DUPLICATE: Y ☐ N ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0	5.4	CL, NO3, TDS	APP	< 300	
	1	PE	250 mL	HNO3	↓	< 2	METALS	↓	↓	
	1	PE	250 mL	H2SO4	↓	< 2	NH3	↓	↓	
	2	CG	40 mL	COOL	↓	5.4	EDB & DBCP	↓	↓	
	3	CG	40 mL	HCL	↓	< 2	8200	↓	↓	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 82 of 88



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENA RD. LF</u>		SITE LOCATION: <u>LENA RD. BRADENTON FL</u>	
WELL NO: <u>GW-23</u>		DATE: <u>5-31-18</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>6.28</u> feet to <u>6.28</u> feet	STATIC DEPTH TO WATER (feet): <u>6.28</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>20.30</u> feet - <u>6.28</u> feet X <u>0.16</u> gallons/foot = <u>2.2432</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = <u> </u> gallons + (<u> </u> gallons/foot X <u> </u> feet) + <u> </u> gallons = <u> </u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>8'</u>	PURGING INITIATED AT: <u>1122</u>	PURGING ENDED AT: <u>1145</u>	TOTAL VOLUME PURGED (gallons): <u>3.45</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1137</u>	<u>2.25</u>	<u>2.25</u>	<u>0.15</u>	<u>6.60</u>	<u>5.87</u>	<u>28.0</u>	<u>282.3</u>	<u>0.67</u>	<u>8.80</u>	<u>ANNIE</u>	<u>NONE</u>
<u>1141</u>	<u>0.60</u>	<u>2.85</u>	<u>0.15</u>	<u>6.60</u>	<u>5.88</u>	<u>27.8</u>	<u>286.2</u>	<u>0.60</u>	<u>7.54</u>	<u>"</u>	<u>"</u>
<u>1145</u>	<u>0.60</u>	<u>3.45</u>	<u>0.15</u>	<u>6.60</u>	<u>5.89</u>	<u>27.7</u>	<u>288.1</u>	<u>0.59</u>	<u>6.72</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. BOSCHER</u>		SAMPLER(S) SIGNATURE(S): <u>H. BOSCHER</u>		SAMPLING INITIATED AT: <u>1146</u>	SAMPLING ENDED AT: <u>1156</u>				
PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE:		FIELD-FILTERED: Y <u>(N)</u> Filtration Equipment Type:	FILTER SIZE: <u> </u> μm				
FIELD DECONTAMINATION: PUMP <u>(Y)</u> N		TUBING Y <u>(N)</u> (replaced)		DUPLICATE: Y <u>(N)</u>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	<u>1</u>	<u>SE</u>	<u>1L</u>	<u>CO2</u>	<u>0</u>	<u>5.8</u>	<u>CL NDB TES</u>	<u>APP</u>	<u>< 200</u>
	<u>1</u>	<u>SE</u>	<u>250 mL</u>	<u>HNO3</u>	<u>1</u>	<u>< 2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>SE</u>	<u>250 mL</u>	<u>H2SO4</u>	<u>1</u>	<u>< 2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>
	<u>2</u>	<u>CG</u>	<u>40 mL</u>	<u>CO2</u>	<u>1</u>	<u>5.8</u>	<u>EDB & DBCP</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>CG</u>	<u>40 mL</u>	<u>HCL</u>	<u>1</u>	<u>< 2</u>	<u>3260</u>	<u>↓</u>	<u>↓</u>
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater) Page 83 of 88



Document Name:
Groundwater Sampling Log
Document No.:
F-FL-C-021 rev.00

Document Revised:
December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENA RD LANDFILL</u>	SITE LOCATION: <u>LENA RD. BRADENTON FL</u>
WELL NO: <u>GW-24</u>	SAMPLE ID: _____ DATE: <u>5-31-18</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): <u>7.79</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>22.05</u> feet - <u>7.79</u> feet X <u>0.16</u> gallons/foot = <u>2.28/6</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>10</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>10</u>	PURGING INITIATED AT: <u>1225</u>	PURGING ENDED AT: <u>1229</u>	TOTAL VOLUME PURGED (gallons): <u>3.6</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm or µS/cm</u>	DISSOLVED OXYGEN (circle units) <u>mg/L or % saturation</u>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1221</u>	<u>2.4</u>	<u>2.4</u>	<u>0.15</u>	<u>7.97</u>	<u>6.16</u>	<u>27.4</u>	<u>272.1</u>	<u>3.25</u>	<u>16.7</u>	<u>TANNIC</u>	<u>NONE</u>
<u>1225</u>	<u>0.6</u>	<u>3.0</u>	<u>0.15</u>	<u>7.97</u>	<u>6.15</u>	<u>27.1</u>	<u>273.5</u>	<u>3.18</u>	<u>12.4</u>	<u>"</u>	<u>"</u>
<u>1229</u>	<u>0.6</u>	<u>3.6</u>	<u>0.15</u>	<u>7.97</u>	<u>6.14</u>	<u>27.1</u>	<u>273.2</u>	<u>3.10</u>	<u>8.5</u>	<u>"</u>	<u>"</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. Boush Pace</u>		SAMPLER(S) SIGNATURE(S): <u>H. Boush</u>		SAMPLING INITIATED AT: <u>1230</u>	SAMPLING ENDED AT: <u>1240</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>10</u>		TUBING MATERIAL CODE: <u>HDBE</u>	FIELD-FILTERED: Y <u>(N)</u>	FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP <u>(Y)</u> N		TUBING Y <u>(N)</u> (replaced)	DUPLICATE: Y <u>(N)</u>		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)
	<u>1</u>	<u>PE</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HNO3</u>	<u>0</u>
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>H2SO4</u>	<u>0</u>
	<u>2</u>	<u>CG</u>	<u>40ml</u>	<u>COOL</u>	<u>0</u>
	<u>3</u>	<u>CG</u>	<u>40ml</u>	<u>HCL</u>	<u>0</u>
				FINAL pH	
				<u>6.1</u>	<u>CLNO3 TDS</u>
				<u><2</u>	<u>1 METALS</u>
				<u><2</u>	<u>NH3</u>
				<u>6.1</u>	<u>EDTA & DBO</u>
				<u><2</u>	<u>8260</u>
REMARKS:					
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)					
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)					

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD BRADENTON FL	
WELL NO: GW-15	SAMPLE ID:	DATE: 5-31-18	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAILER:
			731	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= 20.00 feet - 7.31 feet X 0.16 gallons/foot = 2.0304 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

	=	gallons + (	gallons/foot X	feet) +	gallons =	gallons
--	---	-------------	----------------	---------	-----------	---------

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	9'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	9'	PURGING INITIATED AT:	1332	PURGING ENDED AT:	1354	TOTAL VOLUME PURGED (gallons):	3.30
--	----	--	----	-----------------------	------	-------------------	------	--------------------------------	------

[illegible]

WELL CAPACITY (Gallons Per Foot):	0.75" = 0.02;	1" = 0.04;	1.25" = 0.06;	2" = 0.16;	3" = 0.37;	4" = 0.65;	5" = 1.02;	6" = 1.47;	12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.):	1/8" = 0.0006;	3/16" = 0.0014;	1/4" = 0.0026;	5/16" = 0.004;	3/8" = 0.006;	1/2" = 0.010;	5/8" = 0.016		

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Dwyer / SPACE	SAMPLER(S) SIGNATURE(S): J. Dwyer	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1405
---	--------------------------------------	-----------------------------	-------------------------

PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDSE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ μm
--	----------------------------	---	-----------------------

FIELD DECONTAMINATION:	PUMP	☒ Y	☐ N	TUBING	☒ Y	☐ N (replaced)	DUPLICATE:	☒ Y	☐ N
------------------------	------	------------------------------------	-------------------------	--------	------------------------------------	------------------------------------	------------	------------------------------------	-------------------------

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	PE	1L	COOL	0	6.2	CL NIT3 TDS	APP	< 200
	1	PE	250 ml	HNO3		< 2	METALS		
	1	PE	250 ml	H2SO4		< 2	NH3		
	2	CG	40 ml	COOL		6.2	EDTA + DDCP		
	3	CG	40 ml	HCL		< 2	8760		

REMARKS:

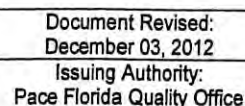
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SEC'

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings ≤ 2 optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU



Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD CF		SITE LOCATION: LENA RD BRADENTON FL	
WELL NO: GW-17	SAMPLE ID:	DATE: 5-31-18	

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet):	7.25	PURGE PUMP TYPE OR BAILER:		
WELL VOLUME PURGE: 1. WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 20.80 feet - 7.25 feet X 8.16 gallons/foot = 2.168 gallons									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	9'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	9'	PURGING INITIATED AT:	1420	PURGING ENDED AT:	1443	TOTAL VOLUME PURGED (gallons):	3.45

[illegible]

WELL CAPACITY (Gallons Per Foot): **0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88**
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016**

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT/AFFILIATION): <u>H. Bogues/SPACE</u>				SAMPLE(S) SIGNATURE(S): <u>H. Bogues</u>			SAMPLING INITIATED AT: <u>1444</u>		SAMPLING ENDED AT: <u>1454</u>	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE: <u>HDPE</u>			FIELD-FILTERED: Y <u>(N)</u> Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <u>(N)</u> TUBING Y <u>(N)</u> (replaced)							DUPLICATE: Y <u>(N)</u>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	<u>1</u>	<u>PE</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>	<u>5.5</u>	<u>CL NO3 TDS</u>	<u>APP</u>	<u><200</u>	
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>1</u>	<u><2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>	
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>H2SO4</u>	<u>1</u>	<u><2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>	
	<u>2</u>	<u>CG</u>	<u>40 ml</u>	<u>COOL</u>	<u>1</u>	<u>5.5</u>	<u>EDB & DECP</u>	<u>↓</u>	<u>↓</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>1</u>	<u><2</u>	<u>8260</u>	<u>↓</u>	<u>↓</u>	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater) Page 87 of 88

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LANDFILL		SITE LOCATION: LENA RD BRADENTON FL	
WELL NO: GW-12/DUP	SAMPLE ID:	DATE: 5-31-18	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Byles / PACE				SAMPLER(S) SIGNATURE(S): H. Byles			SAMPLING INITIATED AT: 1/5/39		SAMPLING ENDED AT: 1/5/49			
PUMP OR TUBING DEPTH IN WELL (feet): 11'				TUBING MATERIAL CODE: 4DBE			FIELD-FILTERED: Y <u>N</u> Filtration Equipment Type:		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP <u>Y</u> N				TUBING Y <u>N</u> (replaced)			DUPLICATE: <u>Y</u> N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	1	8E	1L	COOL	0	6.5	CLINDB TDS		APP		<300	
	1	8E	250ml	HNO3	↓	<2	METALS		↓		↓	
	1	8E	250ml	42504	↓	<2	NH3		↓		↓	
	2	CG	40ml	COOL	↓	6.8	EDB & DBCP		↓		↓	
	3	CG	40ml	HCL	↓	<2	8260		↓		↓	

REMARKS: DUPLICATE SAMPLE TAKEN

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally $+5$ NTU or $\pm 10\%$ (whichever is greater) Page 88 of 88

June 15, 2018

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Rd Landfill (Existing)
Pace Project No.: 35395484

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 01, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Bob Bennett, Manatee County
Ken Guilbeault, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677

Florida Certification #: E84129

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35395484001	EQ	Water	06/01/18 07:50	06/01/18 16:10
35395484002	BGW-1	Water	06/01/18 08:38	06/01/18 16:10
35395484003	GW-14	Water	06/01/18 09:18	06/01/18 16:10
35395484004	GW-13	Water	06/01/18 09:53	06/01/18 16:10
35395484005	Trip Blank	Water	06/01/18 07:50	06/01/18 16:10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35395484001	EQ	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395484002	BGW-1	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395484003	GW-14	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395484004	GW-13	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	CS2	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMD	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
35395484005	Trip Blank	EPA 8011	MMB	2	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: EQ		Lab ID: 35395484001		Collected: 06/01/18 07:50		Received: 06/01/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/04/18 09:50	06/05/18 09:30	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/04/18 09:50	06/05/18 09:30	106-93-4	
6010 MET ICP									
		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:56	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:56	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:56	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:56	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:56	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:56	7440-50-8	
Iron	20.0 U	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 17:56	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:56	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 17:56	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:56	7440-22-4	
Sodium	0.50 U	mg/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:56	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:56	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 17:56	7440-66-6	
6020 MET ICPMS									
		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:03	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:03	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:03	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:03	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:03	7440-28-0	
7470 Mercury									
		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	0.10 U	ug/L	0.20	0.10	1	06/05/18 17:04	06/07/18 19:48	7439-97-6	
8260 MSV									
		Analytical Method: EPA 8260							
Acetone	13.8 I	ug/L	20.0	10.0	1		06/08/18 15:08	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:08	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/08/18 15:08	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/08/18 15:08	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/08/18 15:08	74-83-9	
2-Butanone (MEK)	9.8 I	ug/L	10.0	5.0	1		06/08/18 15:08	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:08	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/08/18 15:08	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 15:08	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/08/18 15:08	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/08/18 15:08	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/08/18 15:08	74-95-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: EQ		Lab ID: 35395484001		Collected: 06/01/18 07:50		Received: 06/01/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:08	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 15:08	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 15:08	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:08	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 15:08	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/08/18 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:08	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/08/18 15:08	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/08/18 15:08	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/08/18 15:08	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:08	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/08/18 15:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		06/08/18 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-135		1		06/08/18 15:08	17060-07-0	
Toluene-d8 (S)	107	%	89-112		1		06/08/18 15:08	2037-26-5	
2540C Total Diss. Solids Tampa		Analytical Method: SM 2540C							
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1		06/05/18 15:17		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	2.5 U	mg/L	5.0	2.5	1		06/05/18 14:43	16887-00-6	
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/13/18 16:53	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/02/18 07:30	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: BGW-1 **Lab ID: 35395484002** Collected: 06/01/18 08:38 Received: 06/01/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.10	Std. Units			1		06/01/18 08:38		
Field Temperature	24.4	deg C			1		06/01/18 08:38		
Field Specific Conductance	440.2	umhos/cm			1		06/01/18 08:38		
Oxygen, Dissolved	0.36	mg/L			1		06/01/18 08:38	7782-44-7	
Turbidity	3.10	NTU			1		06/01/18 08:38		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.020	0.0062	1	06/04/18 09:50	06/05/18 09:44	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	06/04/18 09:50	06/05/18 09:44	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	19.8	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:59	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:59	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:59	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:59	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:59	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:59	7440-50-8	
Iron	1700	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 17:59	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:59	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 17:59	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 17:59	7440-22-4	
Sodium	10.4	mg/L	1.0	0.50	1	06/07/18 02:18	06/07/18 17:59	7440-23-5	
Vanadium	10.7	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 17:59	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 17:59	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.57 I	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:15	7440-36-0	
Arsenic	0.69 I	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:15	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:15	7439-92-1	
Selenium	3.2	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:15	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/05/18 17:04	06/07/18 19:50	7439-97-6	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/08/18 15:33	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:33	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/08/18 15:33	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/08/18 15:33	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/08/18 15:33	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:33	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:33	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: BGW-1 **Lab ID: 35395484002** Collected: 06/01/18 08:38 Received: 06/01/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/08/18 15:33	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 15:33	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/08/18 15:33	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/08/18 15:33	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/08/18 15:33	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:33	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 15:33	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 15:33	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:33	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 15:33	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/08/18 15:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:33	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/08/18 15:33	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/08/18 15:33	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/08/18 15:33	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:33	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/08/18 15:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/08/18 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-135		1		06/08/18 15:33	17060-07-0	
Toluene-d8 (S)	109	%	89-112		1		06/08/18 15:33	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	279	mg/L	5.0	5.0	1	06/05/18 15:17
------------------------	------------	------	-----	-----	---	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	15.1	mg/L	5.0	2.5	1	06/05/18 15:02	16887-00-6
----------	-------------	------	-----	-----	---	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: BGW-1		Lab ID: 35395484002		Collected: 06/01/18 08:38		Received: 06/01/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.61	mg/L	0.050	0.035	1		06/13/18 16:55	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.27	mg/L	0.050	0.025	1		06/02/18 07:32	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: GW-14 Lab ID: 35395484003 Collected: 06/01/18 09:18 Received: 06/01/18 16:10 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.44	Std. Units			1		06/01/18 09:18		
Field Temperature	24.8	deg C			1		06/01/18 09:18		
Field Specific Conductance	741	umhos/cm			1		06/01/18 09:18		
Oxygen, Dissolved	0.25	mg/L			1		06/01/18 09:18	7782-44-7	
Turbidity	5.4	NTU			1		06/01/18 09:18		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/04/18 09:50	06/05/18 09:59	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/04/18 09:50	06/05/18 09:59	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	29.4	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:02	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:02	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:02	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:02	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:02	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:02	7440-50-8	
Iron	850	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 18:02	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:02	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 18:02	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:02	7440-22-4	
Sodium	3.6	mg/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:02	7440-23-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:02	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 18:02	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:17	7440-36-0	
Arsenic	1.1	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:17	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:17	7439-92-1	
Selenium	5.3	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:17	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:17	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	06/05/18 17:04	06/07/18 19:52	7439-97-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/08/18 15:58	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:58	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/08/18 15:58	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/08/18 15:58	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/08/18 15:58	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:58	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:58	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: GW-14 **Lab ID: 35395484003** Collected: 06/01/18 09:18 Received: 06/01/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/08/18 15:58	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 15:58	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/08/18 15:58	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/08/18 15:58	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/08/18 15:58	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:58	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 15:58	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 15:58	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:58	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 15:58	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/08/18 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 15:58	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/08/18 15:58	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/08/18 15:58	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/08/18 15:58	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/08/18 15:58	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/08/18 15:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	89-111		1		06/08/18 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-135		1		06/08/18 15:58	17060-07-0	
Toluene-d8 (S)	107	%	89-112		1		06/08/18 15:58	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	454	mg/L	5.0	5.0	1		06/05/18 15:18
------------------------	------------	------	-----	-----	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	4.3 I	mg/L	5.0	2.5	1		06/05/18 16:01	16887-00-6
----------	--------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: GW-14		Lab ID: 35395484003		Collected: 06/01/18 09:18		Received: 06/01/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.059	mg/L	0.050	0.035	1		06/13/18 16:57	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	2.2	mg/L	0.050	0.025	1		06/02/18 07:36	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: GW-13		Lab ID: 35395484004		Collected: 06/01/18 09:53		Received: 06/01/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
		Analytical Method:							
Field pH	6.58	Std. Units			1		06/01/18 09:53		
Field Temperature	25.4	deg C			1		06/01/18 09:53		
Field Specific Conductance	1261	umhos/cm			1		06/01/18 09:53		
Oxygen, Dissolved	0.27	mg/L			1		06/01/18 09:53	7782-44-7	
Turbidity	3.73	NTU			1		06/01/18 09:53		
8011 GCS EDB and DBCP									
		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/04/18 09:50	06/05/18 10:14	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/04/18 09:50	06/05/18 10:14	106-93-4	
6010 MET ICP									
		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	26.1	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:05	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:05	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:05	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:05	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:05	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:05	7440-50-8	
Iron	4340	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 18:05	7439-89-6	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:05	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 18:05	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:05	7440-22-4	
Sodium	15.0	mg/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:05	7440-23-5	
Vanadium	9.4 I	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:05	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 18:05	7440-66-6	
6020 MET ICPMS									
		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:20	7440-36-0	
Arsenic	6.3	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:20	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:20	7439-92-1	
Selenium	1.8	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:20	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:20	7440-28-0	
7470 Mercury									
		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	0.10 U	ug/L	0.20	0.10	1	06/05/18 17:04	06/07/18 19:54	7439-97-6	
8260 MSV									
		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		06/08/18 16:23	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/08/18 16:23	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/08/18 16:23	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/08/18 16:23	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/08/18 16:23	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 16:23	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/08/18 16:23	75-15-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: GW-13 **Lab ID: 35395484004** Collected: 06/01/18 09:53 Received: 06/01/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/08/18 16:23	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 16:23	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/08/18 16:23	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/08/18 16:23	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/08/18 16:23	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/08/18 16:23	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 16:23	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/08/18 16:23	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/08/18 16:23	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/08/18 16:23	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/08/18 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/08/18 16:23	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/08/18 16:23	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/08/18 16:23	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/08/18 16:23	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/08/18 16:23	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/08/18 16:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		06/08/18 16:23	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-135		1		06/08/18 16:23	17060-07-0	
Toluene-d8 (S)	108	%	89-112		1		06/08/18 16:23	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	720	mg/L	10.0	10.0	1		06/05/18 15:18
------------------------	------------	------	------	------	---	--	----------------

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	11.4	mg/L	5.0	2.5	1		06/05/18 16:20	16887-00-6
----------	-------------	------	-----	-----	---	--	----------------	------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: GW-13		Lab ID: 35395484004		Collected: 06/01/18 09:53		Received: 06/01/18 16:10		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	4.2	mg/L	0.050	0.035	1		06/13/18 16:59	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/02/18 07:37	14797-55-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Sample: Trip Blank		Lab ID: 35395484005	Collected: 06/01/18 07:50	Received: 06/01/18 16:10	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/04/18 09:50	06/05/18 10:28	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/04/18 09:50	06/05/18 10:28	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 452356 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2449863 Matrix: Water
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	06/07/18 18:59	

LABORATORY CONTROL SAMPLE: 2449864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449865 2449866

Parameter	Units	35394682001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.20 I	4	4	4.4	4.2	105	101	75-125	4	20	D3

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 452740 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2452460 Matrix: Water
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Beryllium	ug/L	0.50 U	1.0	0.50	06/07/18 17:34	
Cadmium	ug/L	0.50 U	1.0	0.50	06/07/18 17:34	
Chromium	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Cobalt	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Copper	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Iron	ug/L	20.0 U	40.0	20.0	06/07/18 17:34	
Nickel	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Selenium	ug/L	7.5 U	15.0	7.5	06/07/18 17:34	
Silver	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Sodium	mg/L	0.50 U	1.0	0.50	06/07/18 17:34	
Vanadium	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Zinc	ug/L	10.0 U	20.0	10.0	06/07/18 17:34	

LABORATORY CONTROL SAMPLE: 2452461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	260	104	80-120	
Beryllium	ug/L	25	25.2	101	80-120	
Cadmium	ug/L	25	26.0	104	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	258	103	80-120	
Copper	ug/L	250	248	99	80-120	
Iron	ug/L	2500	2600	104	80-120	
Nickel	ug/L	250	262	105	80-120	
Selenium	ug/L	250	259	104	80-120	
Silver	ug/L	25	24.9	100	80-120	
Sodium	mg/L	12.5	12.8	102	80-120	
Vanadium	ug/L	250	254	102	80-120	
Zinc	ug/L	1250	1300	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452462 2452463

Parameter	Units	35395247012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	34.0	250	250	289	292	102	103	75-125	1	20	
Beryllium	ug/L	0.50 U	25	25	25.1	25.3	100	101	75-125	1	20	
Cadmium	ug/L	0.50 U	25	25	25.1	25.4	100	101	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452462 2452463											
Parameter	Units	35395247012 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
			Spike Conc.	Spike Conc.						RPD	RPD
Chromium	ug/L	2.5 U	250	250	254	257	102	103	75-125	1	20
Cobalt	ug/L	5.0 U	250	250	254	257	101	102	75-125	1	20
Copper	ug/L	2.5 U	250	250	251	254	100	102	75-125	1	20
Iron	ug/L	72.0	2500	2500	2640	2660	103	103	75-125	1	20
Nickel	ug/L	2.5 U	250	250	256	258	102	103	75-125	1	20
Selenium	ug/L	21.7	250	250	272	273	100	101	75-125	1	20
Silver	ug/L	2.5 U	25	25	24.7	25.0	99	100	75-125	1	20
Sodium	mg/L	4.4	12.5	12.5	17.1	17.1	102	102	75-125	0	20
Vanadium	ug/L	35.5	250	250	286	289	100	101	75-125	1	20
Zinc	ug/L	10.0 U	1250	1250	1240	1260	99	101	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 452741 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2452465 Matrix: Water
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Arsenic	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Lead	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Selenium	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Thallium	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	

LABORATORY CONTROL SAMPLE: 2452466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.6	101	80-120	
Arsenic	ug/L	50	49.0	98	80-120	
Lead	ug/L	50	52.4	105	80-120	
Selenium	ug/L	50	48.2	96	80-120	
Thallium	ug/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452467 2452468

Parameter	Units	35395484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.1	49.8	100	100	75-125	1	20	
Arsenic	ug/L	0.50 U	50	50	48.8	48.9	97	98	75-125	0	20	
Lead	ug/L	0.50 U	50	50	53.0	53.0	106	106	75-125	0	20	
Selenium	ug/L	0.50 U	50	50	49.5	48.1	99	96	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	50.7	51.3	101	103	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 453219 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2455172 Matrix: Water
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/08/18 14:42	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/08/18 14:42	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	06/08/18 14:42	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/08/18 14:42	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/08/18 14:42	
Acetone	ug/L	10.0 U	20.0	10.0	06/08/18 14:42	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/08/18 14:42	
Benzene	ug/L	0.10 U	1.0	0.10	06/08/18 14:42	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/08/18 14:42	
Bromoform	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/08/18 14:42	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/08/18 14:42	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/08/18 14:42	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/08/18 14:42	
Chloroform	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/08/18 14:42	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/08/18 14:42	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/08/18 14:42	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/08/18 14:42	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/08/18 14:42	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/08/18 14:42	
Styrene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Toluene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/08/18 14:42	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/08/18 14:42	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

METHOD BLANK: 2455172

Matrix: Water

Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/08/18 14:42	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/08/18 14:42	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/08/18 14:42	
1,2-Dichloroethane-d4 (S)	%	111	75-135		06/08/18 14:42	
4-Bromofluorobenzene (S)	%	91	89-111		06/08/18 14:42	
Toluene-d8 (S)	%	105	89-112		06/08/18 14:42	

LABORATORY CONTROL SAMPLE: 2455173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.3	87	70-130	
1,1,1-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethane	ug/L	20	17.7	89	70-130	
1,1-Dichloroethene	ug/L	20	18.0	90	65-134	
1,2,3-Trichloropropane	ug/L	20	16.3	82	65-135	
1,2-Dichlorobenzene	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane	ug/L	20	18.3	91	70-130	
1,2-Dichloropropane	ug/L	20	18.2	91	70-130	
1,4-Dichlorobenzene	ug/L	20	18.3	92	70-130	
2-Butanone (MEK)	ug/L	40	33.4	84	61-129	
2-Hexanone	ug/L	40	41.2	103	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	38.2	95	70-130	
Acetone	ug/L	40	39.1	98	44-155	
Acrylonitrile	ug/L	200	202	101	59-138	
Benzene	ug/L	20	17.7	89	70-130	
Bromochloromethane	ug/L	20	17.7	89	70-130	
Bromodichloromethane	ug/L	20	19.1	96	70-130	
Bromoform	ug/L	20	17.0	85	62-129	
Bromomethane	ug/L	20	16.1	81	10-179	
Carbon disulfide	ug/L	20	16.6	83	40-156	
Carbon tetrachloride	ug/L	20	17.1	86	66-127	
Chlorobenzene	ug/L	20	17.5	88	70-130	
Chloroethane	ug/L	20	22.4	112	57-142	
Chloroform	ug/L	20	18.1	90	70-130	
Chloromethane	ug/L	20	21.7	109	45-150	
cis-1,2-Dichloroethene	ug/L	20	17.1	86	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	17.4	87	70-130	
Dibromomethane	ug/L	20	17.4	87	70-130	
Ethylbenzene	ug/L	20	16.7	83	70-130	
Iodomethane	ug/L	40	50.5	126	21-150	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

LABORATORY CONTROL SAMPLE: 2455173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	21.0	105	65-127	
Styrene	ug/L	20	17.6	88	70-130	
Tetrachloroethene	ug/L	20	17.0	85	48-155	
Toluene	ug/L	20	16.8	84	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.6	83	68-126	
trans-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.1	96	46-138	
Trichloroethene	ug/L	20	16.9	84	69-129	
Trichlorofluoromethane	ug/L	20	19.9	99	60-144	
Vinyl acetate	ug/L	20	20.9	104	70-130	
Vinyl chloride	ug/L	20	22.7	113	67-136	
Xylene (Total)	ug/L	60	51.2	85	70-130	
1,2-Dichloroethane-d4 (S)	%			104	75-135	
4-Bromofluorobenzene (S)	%			95	89-111	
Toluene-d8 (S)	%			99	89-112	

MATRIX SPIKE SAMPLE: 2456815

Parameter	Units	35395500002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	20	12.6	63	70-130	J(M1)
1,1,1-Trichloroethane	ug/L	<0.50	20	14.3	71	70-130	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	20	13.3	67	70-130	J(M1)
1,1,2-Trichloroethane	ug/L	<0.50	20	12.5	62	70-130	J(M1)
1,1-Dichloroethane	ug/L	<0.50	20	13.8	69	70-130	J(M1)
1,1-Dichloroethene	ug/L	<0.50	20	15.1	76	65-134	
1,2,3-Trichloropropane	ug/L	<0.59	20	12.8	64	65-135	J(M1)
1,2-Dichlorobenzene	ug/L	0.52 l	20	14.1	68	70-130	J(M1)
1,2-Dichloroethane	ug/L	<0.50	20	13.0	64	70-130	J(M1)
1,2-Dichloropropane	ug/L	<0.50	20	13.2	66	70-130	J(M1)
1,4-Dichlorobenzene	ug/L	2.5	20	16.6	70	70-130	
2-Butanone (MEK)	ug/L	<5.0	40	25.0	63	61-129	
2-Hexanone	ug/L	<5.0	40	29.7	74	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	40	28.5	71	70-130	
Acetone	ug/L	<10.0	40	27.1	67	44-155	
Acrylonitrile	ug/L	<5.0	200	151	76	59-138	
Benzene	ug/L	<0.10	20	13.6	68	70-130	J(M1)
Bromochloromethane	ug/L	<0.50	20	13.1	65	70-130	J(M1)
Bromodichloromethane	ug/L	<0.27	20	13.6	68	70-130	J(M1)
Bromoform	ug/L	<0.50	20	12.6	63	62-129	
Bromomethane	ug/L	<0.50	20	15.0	75	10-179	
Carbon disulfide	ug/L	<5.0	20	17.9	89	40-156	
Carbon tetrachloride	ug/L	<0.50	20	13.7	68	66-127	
Chlorobenzene	ug/L	9.3	20	22.2	64	70-130	J(M1)
Chloroethane	ug/L	<0.50	20	22.1	110	57-142	
Chloroform	ug/L	<0.50	20	13.8	69	70-130	J(M1)

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

MATRIX SPIKE SAMPLE: 2456815		35395500002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	<0.62	20	15.8	79	45-150	
cis-1,2-Dichloroethene	ug/L	<0.50	20	13.2	66	70-130	J(M1)
cis-1,3-Dichloropropene	ug/L	<0.25	20	12.0	60	70-130	J(M1)
Dibromochloromethane	ug/L	<0.26	20	12.2	61	70-130	J(M1)
Dibromomethane	ug/L	<0.50	20	12.1	61	70-130	J(M1)
Ethylbenzene	ug/L	<0.50	20	12.5	63	70-130	J(M1)
Iodomethane	ug/L	<0.50	40	58.8	147	21-150	
Methylene Chloride	ug/L	<2.5	20	13.9	69	65-127	
Styrene	ug/L	<0.50	20	12.1	61	70-130	J(M1)
Tetrachloroethene	ug/L	<0.50	20	10.0	50	48-155	
Toluene	ug/L	<0.50	20	12.8	63	70-130	J(M1)
trans-1,2-Dichloroethene	ug/L	<0.50	20	13.1	65	68-126	J(M1)
trans-1,3-Dichloropropene	ug/L	<0.25	20	12.1	60	70-130	J(M1)
trans-1,4-Dichloro-2-butene	ug/L	<5.0	20	15.6	78	46-138	
Trichloroethene	ug/L	<0.50	20	12.7	64	69-129	J(M1)
Trichlorofluoromethane	ug/L	<0.50	20	20.4	102	60-144	
Vinyl acetate	ug/L	<1.0	20	16.1	81	70-130	
Vinyl chloride	ug/L	<0.50	20	18.6	93	67-136	
Xylene (Total)	ug/L	<1.0	60	37.6	63	70-130	MS
1,2-Dichloroethane-d4 (S)	%				103	75-135	
4-Bromofluorobenzene (S)	%				93	89-111	
Toluene-d8 (S)	%				99	89-112	

SAMPLE DUPLICATE: 2456814

Parameter	Units	35395500001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50 U		40	
1,1,1-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	0.12 U		40	
1,1,2-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethene	ug/L	<0.50	0.50 U		40	
1,2,3-Trichloropropane	ug/L	<0.59	0.59 U		40	
1,2-Dichlorobenzene	ug/L	<0.50	0.50 U		40	
1,2-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,2-Dichloropropane	ug/L	<0.50	0.50 U		40	
1,4-Dichlorobenzene	ug/L	1.0	0.98 I		40	
2-Butanone (MEK)	ug/L	<5.0	5.0 U		40	
2-Hexanone	ug/L	<5.0	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0 U		40	
Acetone	ug/L	<10.0	10.0 U		40	
Acrylonitrile	ug/L	<5.0	5.0 U		40	
Benzene	ug/L	<0.10	0.10 U		40	
Bromochloromethane	ug/L	<0.50	0.50 U		40	
Bromodichloromethane	ug/L	<0.27	0.27 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

SAMPLE DUPLICATE: 2456814

Parameter	Units	35395500001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	<0.50	0.50 U		40	
Bromomethane	ug/L	<0.50	0.50 U		40	
Carbon disulfide	ug/L	<5.0	5.0 U		40	
Carbon tetrachloride	ug/L	<0.50	0.50 U		40	
Chlorobenzene	ug/L	2.3	2.2	5	40	
Chloroethane	ug/L	<0.50	0.50 U		40	
Chloroform	ug/L	<0.50	0.50 U		40	
Chloromethane	ug/L	<0.62	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
Dibromochloromethane	ug/L	<0.26	0.26 U		40	
Dibromomethane	ug/L	<0.50	0.50 U		40	
Ethylbenzene	ug/L	0.56 I	0.50 U		40	
Iodomethane	ug/L	<0.50	0.50 U		40	
Methylene Chloride	ug/L	<2.5	2.5 U		40	
Styrene	ug/L	<0.50	0.50 U		40	
Tetrachloroethene	ug/L	<0.50	0.50 U		40	
Toluene	ug/L	<0.50	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	5.0 U		40	
Trichloroethene	ug/L	<0.50	0.50 U		40	
Trichlorofluoromethane	ug/L	<0.50	0.50 U		40	
Vinyl acetate	ug/L	<1.0	1.0 U		40	
Vinyl chloride	ug/L	<0.50	0.50 U		40	
Xylene (Total)	ug/L	1.4 I	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	113	115	2	40	
4-Bromofluorobenzene (S)	%	91	89	2	40	
Toluene-d8 (S)	%	102	112	9	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 451829

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: 8011 EDB DBCP

Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004, 35395484005

METHOD BLANK: 2447561

Matrix: Water

Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004, 35395484005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	06/05/18 05:33	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	06/05/18 05:33	

LABORATORY CONTROL SAMPLE: 2447562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.28	110	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	101	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2447589 2447590

Parameter	Units	35395500001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<0.0062	.44	.44	0.60	0.57	137	129	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	<0.0072	.44	.44	0.50	0.46	114	106	60-140	8	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 452185 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2449039 Matrix: Water
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	06/05/18 15:14	

LABORATORY CONTROL SAMPLE: 2449040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 2449041

Parameter	Units	35395481006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	281	282	0	5	

SAMPLE DUPLICATE: 2449042

Parameter	Units	35395660002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	383	2	5	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 452224 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2449237 Matrix: Water
Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	06/05/18 12:08	

LABORATORY CONTROL SAMPLE: 2449238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449239 2449240

Parameter	Units	35395310001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.8	50	50	61.5	61.5	101	101	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2449241 2449242

Parameter	Units	35395484002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.1	50	50	64.8	64.8	99	99	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch: 454308

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

METHOD BLANK: 2460858

Matrix: Water

Associated Lab Samples: 35395484001, 35395484002, 35395484003, 35395484004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	06/13/18 16:37	

LABORATORY CONTROL SAMPLE: 2460859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	105	90-110	

MATRIX SPIKE SAMPLE: 2460861

Parameter	Units	35395481005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.65	1	1.7	101	90-110	

SAMPLE DUPLICATE: 2460860

Parameter	Units	35395481005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.65	0.66	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

QC Batch:	451718	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	35395484001, 35395484002, 35395484003, 35395484004		

METHOD BLANK:	2447121	Matrix:	Water
Associated Lab Samples:	35395484001, 35395484002, 35395484003, 35395484004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	06/02/18 06:50	

SAMPLE DUPLICATE: 2447123

Parameter	Units	35395365001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.20	0.75	115	20	J(D6)

SAMPLE DUPLICATE: 2447125

Parameter	Units	35395481003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.17	0.17	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35395484

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
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.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach
PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35395484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35395484002	BGW-1				
35395484003	GW-14				
35395484004	GW-13				
35395484001	EQ	EPA 8011	451829	EPA 8011	451915
35395484002	BGW-1	EPA 8011	451829	EPA 8011	451915
35395484003	GW-14	EPA 8011	451829	EPA 8011	451915
35395484004	GW-13	EPA 8011	451829	EPA 8011	451915
35395484005	Trip Blank	EPA 8011	451829	EPA 8011	451915
35395484001	EQ	EPA 3010	452740	EPA 6010	452747
35395484002	BGW-1	EPA 3010	452740	EPA 6010	452747
35395484003	GW-14	EPA 3010	452740	EPA 6010	452747
35395484004	GW-13	EPA 3010	452740	EPA 6010	452747
35395484001	EQ	EPA 3010	452741	EPA 6020	452748
35395484002	BGW-1	EPA 3010	452741	EPA 6020	452748
35395484003	GW-14	EPA 3010	452741	EPA 6020	452748
35395484004	GW-13	EPA 3010	452741	EPA 6020	452748
35395484001	EQ	EPA 7470	452356	EPA 7470	452488
35395484002	BGW-1	EPA 7470	452356	EPA 7470	452488
35395484003	GW-14	EPA 7470	452356	EPA 7470	452488
35395484004	GW-13	EPA 7470	452356	EPA 7470	452488
35395484001	EQ	EPA 8260	453219		
35395484002	BGW-1	EPA 8260	453219		
35395484003	GW-14	EPA 8260	453219		
35395484004	GW-13	EPA 8260	453219		
35395484001	EQ	SM 2540C	452185		
35395484002	BGW-1	SM 2540C	452185		
35395484003	GW-14	SM 2540C	452185		
35395484004	GW-13	SM 2540C	452185		
35395484001	EQ	EPA 300.0	452224		
35395484002	BGW-1	EPA 300.0	452224		
35395484003	GW-14	EPA 300.0	452224		
35395484004	GW-13	EPA 300.0	452224		
35395484001	EQ	EPA 350.1	454308		
35395484002	BGW-1	EPA 350.1	454308		
35395484003	GW-14	EPA 350.1	454308		
35395484004	GW-13	EPA 350.1	454308		
35395484001	EQ	EPA 353.2	451718		
35395484002	BGW-1	EPA 353.2	451718		
35395484003	GW-14	EPA 353.2	451718		
35395484004	GW-13	EPA 353.2	451718		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Manatee County Landfill	Report To:	Bob Bennett	Attention:	
Address:	333 Lena Road	Copy To:		Company Name:	
Brandenton, FL 34211				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:		Project Name:	Lena Rd Landfill (Existing Wells)	Pace Project Manager:	cameron.meynardie@paceclabs.com,
Requested Due Date:		Project #:		Pace Profile #:	8100 Line 1
				Regulatory Agency	
				State/Location	
				FL	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, .) Sample IDs must be unique	MATRIX		CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Analyses Test	Y/N	
		Drinking Water DW	Waste Water WW	Product P	Solid SL			Other OT								
									Water	Waste Water	Product					Solid
1	EQ							DATE	TIME	DATE	TIME					
2	BSU-1															
3	BSU-1-1															
4	BSU-1-3															
5	TRIP BLANK															
6																
7																
8																
9																
10																
11																
12																
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
Empty Containers		H. B. S. PACE		5/2/18		1230		H. B. S. PACE		6/1/18		1410		72.5 F		
pH, Temp, Spec Cond, DO, Turbidity, Color and Sheen by observation																
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed:		TEMP in C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)		
H. B. S. PACE		H. B. S. PACE		H. B. S. PACE		6-1-18		65.4		Y		Y		Y		

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35395484**
Project Manager: PM: CEM **Due Date:** 06/15/18
Client: CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents: DS

Label:

Deliver: 6/1/18

pH:

Thermometer Used: T23

Date: 6/1/18

Time: 1615

Initials: MVL

State of Origin: FL

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C 6.5 (Visual) 0.0 (Correction Factor) 6.5 (Actual)

Cooler #2 Temp.°C (Visual) (Correction Factor) (Actual)

Cooler #3 Temp.°C (Visual) (Correction Factor) (Actual)

Cooler #4 Temp.°C (Visual) (Correction Factor) (Actual)

Cooler #5 Temp.°C (Visual) (Correction Factor) (Actual)

Cooler #6 Temp.°C (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

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

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals intact:** ☐ Yes ☒ No **Ice:** Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) **Shorted Date:** **Shorted Time:** **Qty:**

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review:

Date:

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LENA RD LF	SITE LOCATION: LENA RD. BRADENTON, FL
WELL NO: EQ	SAMPLE ID: 6-1-18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: BP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
BLANK											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Buxner/PACE	SAMPLER(S) SIGNATURE(S): H. Buxner	SAMPLING INITIATED AT: 0750	SAMPLING ENDED AT: 0759
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y ☒ N ☐	FILTER SIZE: μ m
FIELD DECONTAMINATION: PUMP ☒ N ☐ TUBING Y ☒ N ☐ (replaced)	DUPLICATE: Y ☒ N ☐		
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME
	1	RE	1L
	1	RE	250ml
	1	RE	250ml
	2	CG	40ml
	3	CG	40ml
		PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)
		COOL	0
		HNO3	↓
		H2SO4	↓
		COOL	↓
		HCL	↓
		INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
		AL, NH3, TDS	PP
		METALS	↓
		NH3	↓
		EDB4 DECB	↓
		8240	↓
		SAMPLE PUMP FLOW RATE (mL per minute)	
		<300	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>LENA RD LF</u>		SITE LOCATION: <u>LENA RD BRADENTON FL</u>	
WELL NO: <u>BGW-1</u>		DATE: <u>6-1-18</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>10.55</u>	PURGE PUMP TYPE OR BAILER: <u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>26.03</u> feet - <u>10.55</u> feet X <u>0.16</u> gallons/foot = <u>2.4768</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>13</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>13</u>	PURGING INITIATED AT: <u>0810</u>	PURGING ENDED AT: <u>0837</u>	TOTAL VOLUME PURGED (gallons): <u>4.05</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>0827</u>	<u>2.55</u>	<u>2.55</u>	<u>0.15</u>	<u>10.70</u>	<u>6.12</u>	<u>24.4</u>	<u>440.0</u>	<u>2.49</u>	<u>3.94</u>	<u>CLEAR</u>	<u>NONE</u>
<u>0832</u>	<u>0.75</u>	<u>3.30</u>	<u>0.15</u>	<u>10.70</u>	<u>6.11</u>	<u>24.4</u>	<u>440.2</u>	<u>2.44</u>	<u>3.69</u>	<u>"</u>	<u>"</u>
<u>0837</u>	<u>0.75</u>	<u>4.05</u>	<u>0.15</u>	<u>10.70</u>	<u>6.10</u>	<u>24.4</u>	<u>440.2</u>	<u>2.30</u>	<u>3.10</u>	<u>"</u>	<u>"</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. B. Jones / PACE</u>		SAMPLER(S) SIGNATURE(S): <u>H. B. Jones</u>		SAMPLING INITIATED AT: <u>0838</u>	SAMPLING ENDED AT: <u>0848</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>13'</u>		TUBING MATERIAL CODE: <u>HDPE</u>		FIELD-FILTERED: Y <u>(N)</u>	FILTER SIZE: <u> </u> μm
FIELD DECONTAMINATION: PUMP <u>(N)</u>		TUBING Y <u>(N)</u> (replaced)		DUPLICATE: Y <u>(N)</u>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	<u>1</u>	<u>GL</u>	<u>1L</u>	<u>COOL</u>	<u>0</u>	<u>6.1</u>	<u>Al, NO3 TDS</u>	<u>APP</u>	<u>< 200</u>
	<u>1</u>	<u>GL</u>	<u>250 ml</u>	<u>HNO3</u>	<u>↓</u>	<u>< 2</u>	<u>METALS</u>	<u>↓</u>	<u>↓</u>
	<u>1</u>	<u>GL</u>	<u>250 ml</u>	<u>H2SO4</u>	<u>↓</u>	<u>< 2</u>	<u>NH3</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>GS</u>	<u>40 ml</u>	<u>COOL</u>	<u>↓</u>	<u>6.1</u>	<u>EDB #DBCP</u>	<u>↓</u>	<u>↓</u>
	<u>3</u>	<u>GS</u>	<u>40 ml</u>	<u>HCL</u>	<u>↓</u>	<u>< 2</u>	<u>8240</u>	<u>↓</u>	<u>↓</u>

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

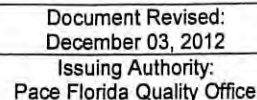
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

SITE NAME: LENA RD LF		SITE LOCATION: LENA RD BRADENTON FL	
WELL NO: GOS-14		DATE: 6-1-18	

[illegible]

SAMPLED BY (PRINT) AFFILIATION:				SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y ☐ N ☒		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP ☒ N ☐ TUBING Y ☒ N (replaced) ☐						DUPLICATE: Y ☒ N ☐				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	PE	1L	COOL	0	6.4	ANB TDS		APB	< 300
	1	PE	250 ml	H ₂ NO ₃		< 2	METALS			
	1	PE	250 ml	H ₂ SO ₄		< 2	NH ₃			
	2	CG	40 ml	COOL		6.4	EDB & DECP			
	3	CG	40 ml	HCl		< 2	8260			
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)



June 18, 2018

Anthony Detweiler
Manatee County Solid Waste
3333 Lena Road
Bradenton, FL 34211

RE: Project: Lena Road Landfill SW
Pace Project No.: 35395660

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Cameron Meynardie
cameron.meynardie@pacelabs.com
(813)881-9401
Project Manager

Enclosures

cc: Bob Bennett, Manatee County
Ken Guilbeault, SCS Engineers
Bryan White, Manatee County Solid Waste



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs

110 South Bayview Blvd., Tampa, FL 34677

Florida Certification #: E84129

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35395660001	SW-1	Water	06/04/18 09:45	06/04/18 12:40
35395660002	SW-2	Water	06/04/18 08:15	06/04/18 12:40
35395660003	SW-1 Dup	Water	06/04/18 09:45	06/04/18 12:40
35395660004	Field Blank	Water	06/04/18 08:30	06/04/18 12:40
35395660005	Trip Blank	Water	06/04/18 08:15	06/04/18 12:40
35395660006	SW-2 Field Blank	Water	06/04/18 08:15	06/04/18 12:40
35395660007	SW-2 Dup	Water	06/04/18 08:15	06/04/18 12:00
35395660008	EQ Blank	Water	06/04/18 09:30	06/04/18 12:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35395660001	SW-1	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	6	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 5210B	NMT	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		EPA 1631E	NMT	1	PASI-Tp
		SM10200	BMU	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	SEW	2	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 410.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	KEK	2	PASI-O
35395660002	SW-2	EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	6	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 5210B	NMT	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		EPA 1631E	NMT	1	PASI-Tp
		SM10200	BMU	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	SEW	2	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 410.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
35395660003	SW-1 Dup	FLDEP SOP 10/03/83	KEK	2	PASI-O
		EPA 8011	MMB	2	PASI-O

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35395660004	Field Blank	EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	6	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 5210B	NMT	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		SM10200	BMU	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	SEW	2	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 410.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	KEK	2	PASI-O
		EPA 8011	MMB	2	PASI-O
		EPA 6010	SC1	14	PASI-O
		EPA 6020	CRT	6	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 5210B	NMT	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		SM10200	BMU	5	PASI-O
		TKN+NOx Calculation	TLK	1	PASI-O
		EPA 350.1	KEK	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	SEW	2	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 410.4	SEW	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	KEK	2	PASI-O
35395660005	Trip Blank	EPA 8011	MMB	2	PASI-O
35395660006	SW-2 Field Blank	EPA 1631E	NMT	1	PASI-Tp
35395660007	SW-2 Dup	EPA 1631E	NMT	1	PASI-Tp
35395660008	EQ Blank	EPA 1631E	NMT	1	PASI-Tp

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-1 Lab ID: 35395660001 Collected: 06/04/18 09:45 Received: 06/04/18 12:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.71	Std. Units			1		06/04/18 09:45		
Field Temperature	27.3	deg C			1		06/04/18 09:45		
Field Specific Conductance	437.1	umhos/cm			1		06/04/18 09:45		
Oxygen, Dissolved	2.30	mg/L			1		06/04/18 09:45	7782-44-7	
Turbidity	14.5	NTU			1		06/04/18 09:45		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	06/06/18 11:44	06/06/18 22:07	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	06/06/18 11:44	06/06/18 22:07	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	17.0	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:31	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:31	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:31	7440-43-9	
Calcium	39300	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:31	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:31	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:31	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:31	7440-50-8	
Iron	4570	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 18:31	7439-89-6	
Magnesium	11900	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:31	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:31	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 18:31	7782-49-2	
Tot Hardness asCaCO3 (SM 2340B	147000	ug/L	3210	1600	1	06/07/18 02:18	06/07/18 18:31		
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:31	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 18:31	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:46	7440-36-0	
Arsenic	7.7	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:46	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:46	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:46	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	06/07/18 02:21	06/07/18 15:46	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:46	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/12/18 12:30	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:30	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/12/18 12:30	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/12/18 12:30	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/12/18 12:30	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:30	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:30	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/12/18 12:30	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-1 **Lab ID: 35395660001** Collected: 06/04/18 09:45 Received: 06/04/18 12:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 12:30	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/12/18 12:30	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/12/18 12:30	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/12/18 12:30	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:30	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 12:30	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 12:30	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:30	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 12:30	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/12/18 12:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:30	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/12/18 12:30	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/12/18 12:30	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/12/18 12:30	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:30	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/12/18 12:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	89-111		1		06/12/18 12:30	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	75-135		1		06/12/18 12:30	17060-07-0	
Toluene-d8 (S)	105	%	89-112		1		06/12/18 12:30	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	339	mg/L	5.0	5.0	1		06/05/18 15:23
------------------------	------------	------	-----	-----	---	--	----------------

2540D Total Susp. Solids Tampa

Analytical Method: SM 2540D

Total Suspended Solids	6.3	mg/L	1.0	1.0	1		06/05/18 09:58
------------------------	------------	------	-----	-----	---	--	----------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-1		Lab ID: 35395660001		Collected: 06/04/18 09:45		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day Tampa		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	06/04/18 17:51	06/09/18 15:23		
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	47.0	CFU/100 mL	1.0	1.0	1	06/04/18 14:36	06/05/18 13:50		
1631E Mercury, Low Level Tampa		Analytical Method: EPA 1631E Preparation Method: EPA 1631E							
Mercury	9.05	ng/L	0.50	0.25	1	06/15/18 15:24	06/16/18 13:32	7439-97-6	
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	3.2 U	mg/m3	7.1	3.2	1	06/05/18 09:00	06/12/18 14:36		
Chlorophyll b	3.2 U	mg/m3	7.1	3.2	1	06/05/18 09:00	06/12/18 14:36		
Chlorophyll c	3.2 U	mg/m3	7.1	3.2	1	06/05/18 09:00	06/12/18 14:36		
Chlorophyll a (Corrected)	3.2 U	mg/m3	7.1	3.2	1	06/05/18 09:00	06/12/18 14:36		
Pheophytin	127	mg/m3	7.1	3.2	1	06/05/18 09:00	06/12/18 14:36		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.4	mg/L	0.50	0.086	1		06/14/18 16:41		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.12	mg/L	0.050	0.035	1		06/14/18 17:04	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	1.4	mg/L	0.50	0.086	1	06/13/18 14:21	06/14/18 13:13	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.061	mg/L	0.050	0.033	1		06/05/18 06:40		
Nitrogen, Nitrate	0.061	mg/L	0.050	0.025	1		06/05/18 06:40	14797-55-8	
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.39	mg/L	0.10	0.050	1	06/13/18 14:21	06/14/18 13:13	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	83.0	mg/L	20.0	12.5	1	06/05/18 10:46	06/05/18 13:27		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	31.6	mg/L	1.0	0.50	1		06/07/18 23:54	7440-44-0	
Un-ionized Ammonia, Ammonium		Analytical Method: FLDEP SOP 10/03/83							
Nitrogen, Ammonium	0.12	mg/L	0.050	0.035	1		06/14/18 17:48	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		06/14/18 17:48		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-2		Lab ID: 35395660002		Collected: 06/04/18 08:15		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	7.08	Std. Units			1		06/04/18 08:15		
Field Temperature	25.9	deg C			1		06/04/18 08:15		
Field Specific Conductance	545	umhos/cm			1		06/04/18 08:15		
Oxygen, Dissolved	0.80	mg/L			1		06/04/18 08:15	7782-44-7	
Turbidity	9.54	NTU			1		06/04/18 08:15		
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/06/18 11:44	06/06/18 22:22	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/06/18 11:44	06/06/18 22:22	106-93-4	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	26.9	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:33	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:33	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:33	7440-43-9	
Calcium	43400	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:33	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:33	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:33	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:33	7440-50-8	
Iron	17000	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 18:33	7439-89-6	
Magnesium	15100	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:33	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:33	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 18:33	7782-49-2	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3210	1600	1	06/07/18 02:18	06/07/18 18:33		
Vanadium	5.6 I	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:33	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 18:33	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:49	7440-36-0	
Arsenic	101	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:49	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:49	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:49	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	06/07/18 02:21	06/07/18 15:49	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:49	7440-28-0	
8260 MSV									
Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/12/18 13:21	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:21	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/12/18 13:21	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/12/18 13:21	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/12/18 13:21	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:21	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:21	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/12/18 13:21	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-2 **Lab ID: 35395660002** Collected: 06/04/18 08:15 Received: 06/04/18 12:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 13:21	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/12/18 13:21	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/12/18 13:21	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/12/18 13:21	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:21	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 13:21	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 13:21	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:21	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 13:21	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/12/18 13:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:21	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/12/18 13:21	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/12/18 13:21	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/12/18 13:21	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:21	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/12/18 13:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	89-111		1		06/12/18 13:21	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-135		1		06/12/18 13:21	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/12/18 13:21	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	375	mg/L	5.0	5.0	1		06/05/18 15:24
------------------------	------------	------	-----	-----	---	--	----------------

2540D Total Susp. Solids Tampa

Analytical Method: SM 2540D

Total Suspended Solids	12.8	mg/L	2.0	2.0	1		06/05/18 09:59
------------------------	-------------	------	-----	-----	---	--	----------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-2		Lab ID: 35395660002		Collected: 06/04/18 08:15		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day Tampa		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	06/04/18 18:01	06/09/18 15:35		
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	51.0	CFU/100 mL	1.0	1.0	1	06/04/18 14:36	06/05/18 13:50		
1631E Mercury, Low Level Tampa		Analytical Method: EPA 1631E Preparation Method: EPA 1631E							
Mercury	17.7	ng/L	0.50	0.25	1	06/15/18 15:24	06/16/18 13:37	7439-97-6	
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	4.7 I	mg/m3	7.7	3.5	1	06/05/18 09:00	06/12/18 14:25		
Chlorophyll b	3.5 U	mg/m3	7.7	3.5	1	06/05/18 09:00	06/12/18 14:25		
Chlorophyll c	3.5 U	mg/m3	7.7	3.5	1	06/05/18 09:00	06/12/18 14:25		
Chlorophyll a (Corrected)	3.5 U	mg/m3	7.7	3.5	1	06/05/18 09:00	06/12/18 14:25		
Pheophytin	109	mg/m3	7.7	3.5	1	06/05/18 09:00	06/12/18 14:25		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.6	mg/L	0.50	0.086	1		06/14/18 16:41		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.049 I	mg/L	0.050	0.035	1		06/14/18 17:06	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	1.6	mg/L	0.50	0.086	1	06/13/18 14:21	06/14/18 13:16	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.033 U	mg/L	0.050	0.033	1		06/05/18 06:44		
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/05/18 06:44	14797-55-8	
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.21	mg/L	0.10	0.050	1	06/13/18 14:21	06/14/18 13:16	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	121	mg/L	20.0	12.5	1	06/05/18 10:46	06/05/18 13:27		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	45.1	mg/L	1.0	0.50	1		06/08/18 00:09	7440-44-0	
Un-ionized Ammonia, Ammonium		Analytical Method: FLDEP SOP 10/03/83							
Nitrogen, Ammonium	0.049 I	mg/L	0.050	0.035	1		06/14/18 17:48	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		06/14/18 17:48		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-1 Dup Lab ID: 35395660003 Collected: 06/04/18 09:45 Received: 06/04/18 12:40 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data Analytical Method:									
Field pH	6.71	Std. Units			1		06/04/18 09:45		
Field Temperature	27.3	deg C			1		06/04/18 09:45		
Field Specific Conductance	437.1	umhos/cm			1		06/04/18 09:45		
Oxygen, Dissolved	2.30	mg/L			1		06/04/18 09:45	7782-44-7	
Turbidity	14.5	NTU			1		06/04/18 09:45		
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/06/18 11:44	06/06/18 22:52	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/06/18 11:44	06/06/18 22:52	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	17.0	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:36	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:36	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:36	7440-43-9	
Calcium	39400	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:36	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:36	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:36	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:36	7440-50-8	
Iron	4580	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 18:36	7439-89-6	
Magnesium	11900	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:36	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:36	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 18:36	7782-49-2	
Tot Hardness asCaCO3 (SM 2340B	148000	ug/L	3210	1600	1	06/07/18 02:18	06/07/18 18:36		
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:36	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 18:36	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:52	7440-36-0	
Arsenic	7.8	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:52	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:52	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:52	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	06/07/18 02:21	06/07/18 15:52	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:52	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		06/12/18 13:45	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:45	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/12/18 13:45	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/12/18 13:45	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/12/18 13:45	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:45	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:45	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/12/18 13:45	56-23-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-1 Dup **Lab ID:** 35395660003 **Collected:** 06/04/18 09:45 **Received:** 06/04/18 12:40 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 13:45	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/12/18 13:45	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/12/18 13:45	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/12/18 13:45	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:45	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 13:45	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 13:45	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:45	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 13:45	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/12/18 13:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 13:45	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/12/18 13:45	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/12/18 13:45	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/12/18 13:45	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/12/18 13:45	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/12/18 13:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	89-111		1		06/12/18 13:45	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	75-135		1		06/12/18 13:45	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/12/18 13:45	2037-26-5	

2540C Total Diss. Solids Tampa

Analytical Method: SM 2540C

Total Dissolved Solids	320	mg/L	5.0	5.0	1		06/05/18 15:25
------------------------	-----	------	-----	-----	---	--	----------------

2540D Total Susp. Solids Tampa

Analytical Method: SM 2540D

Total Suspended Solids	6.0	mg/L	2.0	2.0	1		06/05/18 09:59
------------------------	-----	------	-----	-----	---	--	----------------

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: SW-1 Dup		Lab ID: 35395660003		Collected: 06/04/18 09:45		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day Tampa		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	06/04/18 18:05	06/09/18 15:38		
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	48.0	CFU/100 mL	1.0	1.0	1	06/04/18 14:36	06/05/18 13:50		
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	2.8 U	mg/m3	6.2	2.8	1	06/05/18 09:00	06/12/18 14:38		
Chlorophyll b	2.8 U	mg/m3	6.2	2.8	1	06/05/18 09:00	06/12/18 14:38		
Chlorophyll c	2.8 U	mg/m3	6.2	2.8	1	06/05/18 09:00	06/12/18 14:38		
Chlorophyll a (Corrected)	2.8 U	mg/m3	6.2	2.8	1	06/05/18 09:00	06/12/18 14:38		
Pheophytin	98.5	mg/m3	6.2	2.8	1	06/05/18 09:00	06/12/18 14:38		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.4	mg/L	0.50	0.086	1		06/14/18 16:41		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.12	mg/L	0.050	0.035	1		06/14/18 17:08	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	1.3	mg/L	0.50	0.086	1	06/13/18 14:21	06/14/18 13:17	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.061	mg/L	0.050	0.033	1		06/05/18 06:45		
Nitrogen, Nitrate	0.061	mg/L	0.050	0.025	1		06/05/18 06:45	14797-55-8	
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.39	mg/L	0.10	0.050	1	06/13/18 14:21	06/14/18 13:17	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	88.0	mg/L	20.0	12.5	1	06/05/18 10:46	06/05/18 13:27		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	32.3	mg/L	1.0	0.50	1		06/08/18 00:24	7440-44-0	
Un-ionized Ammonia, Ammonium		Analytical Method: FLDEP SOP 10/03/83							
Nitrogen, Ammonium	0.12	mg/L	0.050	0.035	1		06/14/18 17:48	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		06/14/18 17:48		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: Field Blank		Lab ID: 35395660004		Collected: 06/04/18 08:30		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0062 U	ug/L	0.019	0.0062	1	06/06/18 11:44	06/06/18 23:06	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/06/18 11:44	06/06/18 23:06	106-93-4	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:39	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:39	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:18	06/07/18 18:39	7440-43-9	
Calcium	250 U	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:39	7440-70-2	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:39	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:39	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:39	7440-50-8	
Iron	20.0 U	ug/L	40.0	20.0	1	06/07/18 02:18	06/07/18 18:39	7439-89-6	
Magnesium	250 U	ug/L	500	250	1	06/07/18 02:18	06/07/18 18:39	7439-95-4	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/07/18 02:18	06/07/18 18:39	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/07/18 02:18	06/07/18 18:39	7782-49-2	
Tot Hardness asCaCO3 (SM 2340B	1600 U	ug/L	3210	1600	1	06/07/18 02:18	06/07/18 18:39		
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/07/18 02:18	06/07/18 18:39	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/07/18 02:18	06/07/18 18:39	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:55	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:55	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:55	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:55	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	06/07/18 02:21	06/07/18 15:55	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/07/18 02:21	06/07/18 15:55	7440-28-0	
8260 MSV Analytical Method: EPA 8260									
Acetone	32.3	ug/L	20.0	10.0	1		06/12/18 12:04	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:04	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		06/12/18 12:04	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		06/12/18 12:04	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		06/12/18 12:04	74-83-9	
2-Butanone (MEK)	13.3	ug/L	10.0	5.0	1		06/12/18 12:04	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:04	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		06/12/18 12:04	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 12:04	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		06/12/18 12:04	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		06/12/18 12:04	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		06/12/18 12:04	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	95-50-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Sample: Field Blank		Lab ID: 35395660004		Collected: 06/04/18 08:30		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:04	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 12:04	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		06/12/18 12:04	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:04	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		06/12/18 12:04	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		06/12/18 12:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		06/12/18 12:04	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		06/12/18 12:04	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		06/12/18 12:04	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		06/12/18 12:04	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		06/12/18 12:04	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		06/12/18 12:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	89-111		1		06/12/18 12:04	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-135		1		06/12/18 12:04	17060-07-0	
Toluene-d8 (S)	106	%	89-112		1		06/12/18 12:04	2037-26-5	
2540C Total Diss. Solids Tampa		Analytical Method: SM 2540C							
Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1		06/05/18 15:26		
2540D Total Susp. Solids Tampa		Analytical Method: SM 2540D							
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1		06/05/18 09:59		
5210B BOD, 5 day Tampa		Analytical Method: SM 5210B							
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	06/04/18 18:09	06/09/18 15:40		
9222D Fecal Coliform Tampa		Analytical Method: SM 9222D Preparation Method: SM 9222D							
Fecal Coliforms	1.0 U	CFU/100 mL	1.0	1.0	1	06/04/18 14:36	06/05/18 13:50		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Sample: Field Blank		Lab ID: 35395660004		Collected: 06/04/18 08:30		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Chlorophyll & Pheophytin		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	2.2 U	mg/m3	5.0	2.2	1	06/05/18 09:00	06/12/18 14:30		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	06/05/18 09:00	06/12/18 14:30		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	06/05/18 09:00	06/12/18 14:30		
Chlorophyll a (Corrected)	2.2 U	mg/m3	5.0	2.2	1	06/05/18 09:00	06/12/18 14:30		
Pheophytin	102	mg/m3	5.0	2.2	1	06/05/18 09:00	06/12/18 14:30		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.086 U	mg/L	0.50	0.086	1		06/14/18 16:41		
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		06/14/18 17:10	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.086 U	mg/L	0.50	0.086	1	06/13/18 14:21	06/14/18 13:22	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.033 U	mg/L	0.050	0.033	1		06/05/18 06:46		
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/05/18 06:46	14797-55-8	
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	06/13/18 14:21	06/14/18 13:22	7723-14-0	
410.4 COD		Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	12.5 U	mg/L	20.0	12.5	1	06/05/18 10:46	06/05/18 13:27		
5310B TOC		Analytical Method: SM 5310B							
Total Organic Carbon	0.63 I	mg/L	1.0	0.50	1		06/08/18 00:38	7440-44-0	
Un-ionized Ammonia, Ammonium		Analytical Method: FLDEP SOP 10/03/83							
Nitrogen, Ammonium	0.035 U	mg/L	0.050	0.035	1		06/14/18 17:48	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		06/14/18 17:48		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Sample: Trip Blank		Lab ID: 35395660005	Collected: 06/04/18 08:15	Received: 06/04/18 12:40	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0063 U	ug/L	0.020	0.0063	1	06/06/18 11:44	06/06/18 23:21	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	06/06/18 11:44	06/06/18 23:21	106-93-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Sample: SW-2 Field Blank		Lab ID: 35395660006		Collected: 06/04/18 08:15		Received: 06/04/18 12:40		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa									
Analytical Method: EPA 1631E Preparation Method: EPA 1631E									
Mercury	0.25 U	ng/L	0.50	0.25	1	06/15/18 15:24	06/16/18 13:02	7439-97-6	J(M1), J(R1)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Sample: SW-2 Dup		Lab ID: 35395660007	Collected: 06/04/18 08:15	Received: 06/04/18 12:00	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa									
			Analytical Method: EPA 1631E Preparation Method: EPA 1631E						
Mercury	9.05	ng/L	0.50	0.25	1	06/15/18 15:24	06/16/18 13:47	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Sample: EQ Blank		Lab ID: 35395660008	Collected: 06/04/18 09:30	Received: 06/04/18 12:00	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury,Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	0.25 U	ng/L	0.50	0.25	1	06/15/18 15:24	06/16/18 13:17	7439-97-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 452740 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2452460 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Beryllium	ug/L	0.50 U	1.0	0.50	06/07/18 17:34	
Cadmium	ug/L	0.50 U	1.0	0.50	06/07/18 17:34	
Calcium	ug/L	250 U	500	250	06/07/18 17:34	
Chromium	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Cobalt	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Copper	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Iron	ug/L	20.0 U	40.0	20.0	06/07/18 17:34	
Magnesium	ug/L	250 U	500	250	06/07/18 17:34	
Nickel	ug/L	2.5 U	5.0	2.5	06/07/18 17:34	
Selenium	ug/L	7.5 U	15.0	7.5	06/07/18 17:34	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3210	1600	06/07/18 17:34	
Vanadium	ug/L	5.0 U	10.0	5.0	06/07/18 17:34	
Zinc	ug/L	10.0 U	20.0	10.0	06/07/18 17:34	

LABORATORY CONTROL SAMPLE: 2452461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	260	104	80-120	
Beryllium	ug/L	25	25.2	101	80-120	
Cadmium	ug/L	25	26.0	104	80-120	
Calcium	ug/L	12500	12800	103	80-120	
Chromium	ug/L	250	260	104	80-120	
Cobalt	ug/L	250	258	103	80-120	
Copper	ug/L	250	248	99	80-120	
Iron	ug/L	2500	2600	104	80-120	
Magnesium	ug/L	12500	12700	102	80-120	
Nickel	ug/L	250	262	105	80-120	
Selenium	ug/L	250	259	104	80-120	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	84500	102	80-120	
Vanadium	ug/L	250	254	102	80-120	
Zinc	ug/L	1250	1300	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452462 2452463

Parameter	Units	35395247012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	34.0	250	250	289	292	102	103	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452462 2452463												
Parameter	Units	35395247012		MS	MSD	MS		MSD	% Rec	Max		Qual
		Result		Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Beryllium	ug/L	0.50 U		25	25	25.1	25.3	100	101	75-125	1	20
Cadmium	ug/L	0.50 U		25	25	25.1	25.4	100	101	75-125	1	20
Calcium	ug/L	134000		12500	12500	140000	143000	48	66	75-125	2	20 J(M1), L
Chromium	ug/L	2.5 U		250	250	254	257	102	103	75-125	1	20
Cobalt	ug/L	5.0 U		250	250	254	257	101	102	75-125	1	20
Copper	ug/L	2.5 U		250	250	251	254	100	102	75-125	1	20
Iron	ug/L	72.0		2500	2500	2640	2660	103	103	75-125	1	20
Magnesium	ug/L	11100		12500	12500	23300	23600	98	100	75-125	1	20
Nickel	ug/L	2.5 U		250	250	256	258	102	103	75-125	1	20
Selenium	ug/L	21.7		250	250	272	273	100	101	75-125	1	20
Tot Hardness asCaCO3 (SM 2340B	ug/L	381000		82700	82700	447000	454000	79	87	75-125	2	20
Vanadium	ug/L	35.5		250	250	286	289	100	101	75-125	1	20
Zinc	ug/L	10.0 U		1250	1250	1240	1260	99	101	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 452741 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2452465 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Arsenic	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Lead	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Selenium	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	
Silver	ug/L	0.050 U	0.10	0.050	06/07/18 14:49	
Thallium	ug/L	0.50 U	1.0	0.50	06/07/18 14:49	

LABORATORY CONTROL SAMPLE: 2452466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.6	101	80-120	
Arsenic	ug/L	50	49.0	98	80-120	
Lead	ug/L	50	52.4	105	80-120	
Selenium	ug/L	50	48.2	96	80-120	
Silver	ug/L	5	5.0	101	80-120	
Thallium	ug/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452467 2452468

Parameter	Units	35395484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.50 U	50	50	50.1	49.8	100	100	75-125	1	20	
Arsenic	ug/L	0.50 U	50	50	48.8	48.9	97	98	75-125	0	20	
Lead	ug/L	0.50 U	50	50	53.0	53.0	106	106	75-125	0	20	
Selenium	ug/L	0.50 U	50	50	49.5	48.1	99	96	75-125	3	20	
Silver	ug/L	0.050 U	5	5	5.2	5.1	104	101	75-125	2	20	
Thallium	ug/L	0.50 U	50	50	50.7	51.3	101	103	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 453853 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2458536 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	06/12/18 11:38	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	06/12/18 11:38	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	06/12/18 11:38	
2-Hexanone	ug/L	5.0 U	10.0	5.0	06/12/18 11:38	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	06/12/18 11:38	
Acetone	ug/L	10.0 U	20.0	10.0	06/12/18 11:38	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	06/12/18 11:38	
Benzene	ug/L	0.10 U	1.0	0.10	06/12/18 11:38	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	06/12/18 11:38	
Bromoform	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Bromomethane	ug/L	0.50 U	5.0	0.50	06/12/18 11:38	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	06/12/18 11:38	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	06/12/18 11:38	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Chloroethane	ug/L	0.50 U	10.0	0.50	06/12/18 11:38	
Chloroform	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Chloromethane	ug/L	0.62 U	1.0	0.62	06/12/18 11:38	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/12/18 11:38	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	06/12/18 11:38	
Dibromomethane	ug/L	0.50 U	2.0	0.50	06/12/18 11:38	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Iodomethane	ug/L	0.50 U	10.0	0.50	06/12/18 11:38	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	06/12/18 11:38	
Styrene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Toluene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	06/12/18 11:38	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	06/12/18 11:38	
Trichloroethene	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

METHOD BLANK: 2458536 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	06/12/18 11:38	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	06/12/18 11:38	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	06/12/18 11:38	
1,2-Dichloroethane-d4 (S)	%	111	75-135		06/12/18 11:38	
4-Bromofluorobenzene (S)	%	95	89-111		06/12/18 11:38	
Toluene-d8 (S)	%	108	89-112		06/12/18 11:38	

LABORATORY CONTROL SAMPLE: 2458537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.7	89	70-130	
1,1,1-Trichloroethane	ug/L	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	70-130	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	17.8	89	70-130	
1,1-Dichloroethene	ug/L	20	17.7	88	65-134	
1,2,3-Trichloropropane	ug/L	20	19.0	95	65-135	
1,2-Dichlorobenzene	ug/L	20	18.5	93	70-130	
1,2-Dichloroethane	ug/L	20	19.0	95	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	40	29.9	75	61-129	
2-Hexanone	ug/L	40	35.6	89	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	40	34.6	87	70-130	
Acetone	ug/L	40	32.6	82	44-155	
Acrylonitrile	ug/L	200	179	90	59-138	
Benzene	ug/L	20	18.3	91	70-130	
Bromochloromethane	ug/L	20	18.7	93	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	
Bromoform	ug/L	20	16.9	85	62-129	
Bromomethane	ug/L	20	15.8	79	10-179	
Carbon disulfide	ug/L	20	16.8	84	40-156	
Carbon tetrachloride	ug/L	20	17.1	86	66-127	
Chlorobenzene	ug/L	20	17.2	86	70-130	
Chloroethane	ug/L	20	23.1	116	57-142	
Chloroform	ug/L	20	18.3	91	70-130	
Chloromethane	ug/L	20	22.9	114	45-150	
cis-1,2-Dichloroethene	ug/L	20	17.5	87	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.9	94	70-130	
Dibromochloromethane	ug/L	20	17.6	88	70-130	
Dibromomethane	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	16.4	82	70-130	
Iodomethane	ug/L	40	45.5	114	21-150	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

LABORATORY CONTROL SAMPLE: 2458537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	21.6	108	65-127	
Styrene	ug/L	20	17.6	88	70-130	
Tetrachloroethene	ug/L	20	14.0	70	48-155	
Toluene	ug/L	20	16.0	80	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	83	68-126	
trans-1,3-Dichloropropene	ug/L	20	18.1	90	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.9	100	46-138	
Trichloroethene	ug/L	20	16.7	84	69-129	
Trichlorofluoromethane	ug/L	20	20.1	100	60-144	
Vinyl acetate	ug/L	20	20.6	103	70-130	
Vinyl chloride	ug/L	20	22.9	114	67-136	
Xylene (Total)	ug/L	60	49.9	83	70-130	
1,2-Dichloroethane-d4 (S)	%			99	75-135	
4-Bromofluorobenzene (S)	%			95	89-111	
Toluene-d8 (S)	%			100	89-112	

MATRIX SPIKE SAMPLE: 2459671

Parameter	Units	35395660002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	15.8	79	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.7	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.4	92	70-130	
1,1,2-Trichloroethane	ug/L	0.50 U	20	16.4	82	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	18.5	92	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	17.4	87	65-134	
1,2,3-Trichloropropane	ug/L	0.59 U	20	18.4	92	65-135	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.6	88	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	18.8	93	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	17.7	89	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	18.1	91	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	26.4	66	61-129	
2-Hexanone	ug/L	5.0 U	40	33.1	83	68-131	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	31.1	78	70-130	
Acetone	ug/L	10.0 U	40	27.0	63	44-155	
Acrylonitrile	ug/L	5.0 U	200	142	71	59-138	
Benzene	ug/L	0.10 U	20	18.0	90	70-130	
Bromochloromethane	ug/L	0.50 U	20	16.1	81	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.6	93	70-130	
Bromoform	ug/L	0.50 U	20	15.1	76	62-129	
Bromomethane	ug/L	0.50 U	20	16.8	84	10-179	
Carbon disulfide	ug/L	5.0 U	20	16.0	79	40-156	
Carbon tetrachloride	ug/L	0.50 U	20	18.4	92	66-127	
Chlorobenzene	ug/L	0.50 U	20	16.4	82	70-130	
Chloroethane	ug/L	0.50 U	20	25.8	129	57-142	
Chloroform	ug/L	0.50 U	20	18.4	92	70-130	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

MATRIX SPIKE SAMPLE: 2459671		35395660002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	21.7	108	45-150	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.6	88	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.7	83	70-130	
Dibromochloromethane	ug/L	0.26 U	20	15.1	76	70-130	
Dibromomethane	ug/L	0.50 U	20	16.1	80	70-130	
Ethylbenzene	ug/L	0.50 U	20	16.8	84	70-130	
Iodomethane	ug/L	0.50 U	40	33.8	84	21-150	
Methylene Chloride	ug/L	2.5 U	20	17.1	84	65-127	
Styrene	ug/L	0.50 U	20	16.8	84	70-130	
Tetrachloroethene	ug/L	0.50 U	20	13.3	67	48-155	
Toluene	ug/L	0.50 U	20	16.2	81	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.7	89	68-126	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.8	84	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	19.0	95	46-138	
Trichloroethene	ug/L	0.50 U	20	16.0	80	69-129	
Trichlorofluoromethane	ug/L	0.50 U	20	22.5	112	60-144	
Vinyl acetate	ug/L	1.0 U	20	17.1	86	70-130	
Vinyl chloride	ug/L	0.50 U	20	25.8	129	67-136	
Xylene (Total)	ug/L	1.0 U	60	51.6	86	70-130	
1,2-Dichloroethane-d4 (S)	%				113	75-135	
4-Bromofluorobenzene (S)	%				91	89-111	
Toluene-d8 (S)	%				96	89-112	

SAMPLE DUPLICATE: 2459670

Parameter	Units	35395660001	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50 U		40	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.12 U		40	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,1-Dichloroethene	ug/L	0.50 U	0.50 U		40	
1,2,3-Trichloropropane	ug/L	0.59 U	0.59 U		40	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
1,2-Dichloroethane	ug/L	0.50 U	0.50 U		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U		40	
2-Butanone (MEK)	ug/L	5.0 U	5.0 U		40	
2-Hexanone	ug/L	5.0 U	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0 U		40	
Acetone	ug/L	10.0 U	10.0 U		40	
Acrylonitrile	ug/L	5.0 U	5.0 U		40	
Benzene	ug/L	0.10 U	0.10 U		40	
Bromochloromethane	ug/L	0.50 U	0.50 U		40	
Bromodichloromethane	ug/L	0.27 U	0.27 U		40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

SAMPLE DUPLICATE: 2459670

Parameter	Units	35395660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromoform	ug/L	0.50 U	0.50 U		40	
Bromomethane	ug/L	0.50 U	0.50 U		40	
Carbon disulfide	ug/L	5.0 U	5.0 U		40	
Carbon tetrachloride	ug/L	0.50 U	0.50 U		40	
Chlorobenzene	ug/L	0.50 U	0.50 U		40	
Chloroethane	ug/L	0.50 U	0.50 U		40	
Chloroform	ug/L	0.50 U	0.50 U		40	
Chloromethane	ug/L	0.62 U	0.62 U		40	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
Dibromochloromethane	ug/L	0.26 U	0.26 U		40	
Dibromomethane	ug/L	0.50 U	0.50 U		40	
Ethylbenzene	ug/L	0.50 U	0.50 U		40	
Iodomethane	ug/L	0.50 U	0.50 U		40	
Methylene Chloride	ug/L	2.5 U	2.5 U		40	
Styrene	ug/L	0.50 U	0.50 U		40	
Tetrachloroethene	ug/L	0.50 U	0.50 U		40	
Toluene	ug/L	0.50 U	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0 U		40	
Trichloroethene	ug/L	0.50 U	0.50 U		40	
Trichlorofluoromethane	ug/L	0.50 U	0.50 U		40	
Vinyl acetate	ug/L	1.0 U	1.0 U		40	
Vinyl chloride	ug/L	0.50 U	0.50 U		40	
Xylene (Total)	ug/L	1.0 U	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	115	114	0	40	
4-Bromofluorobenzene (S)	%	91	95	4	40	
Toluene-d8 (S)	%	105	105	0	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 452340 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004, 35395660005

METHOD BLANK: 2449771 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004, 35395660005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	06/06/18 20:08	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	06/06/18 20:08	

LABORATORY CONTROL SAMPLE: 2449772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.20	80	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	81	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2450374 2450375

Parameter	Units	35395696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0061 U	.44	.44	0.53	0.48	121	109	60-140	11	40	
1,2-Dibromoethane (EDB)	ug/L	0.0071 U	.44	.44	0.51	0.48	117	109	60-140	7	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 452185 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2449039 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	06/05/18 15:14	

LABORATORY CONTROL SAMPLE: 2449040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	90-110	

SAMPLE DUPLICATE: 2449041

Parameter	Units	35395481006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	281	282	0	5	

SAMPLE DUPLICATE: 2449042

Parameter	Units	35395660002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	375	383	2	5	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 452181 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids, Tampa
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2449010 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	1.0 U	1.0	1.0	06/05/18 09:58	

LABORATORY CONTROL SAMPLE: 2449011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	96.0	96	90-110	

SAMPLE DUPLICATE: 2449012

Parameter	Units	35395442001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	102	97.5	5	5	

SAMPLE DUPLICATE: 2449013

Parameter	Units	35395660003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	6.0	0	5	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 452043 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day Tampa
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2448259 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	06/09/18 15:07	

LABORATORY CONTROL SAMPLE: 2448262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	168	85	85-115	

SAMPLE DUPLICATE: 2448263

Parameter	Units	35395660001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U		20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch:	452316	Analysis Method:	SM 9222D
QC Batch Method:	SM 9222D	Analysis Description:	9222D MBIO Fecal Coliform Tampa
Associated Lab Samples:	35395660001, 35395660002, 35395660003, 35395660004		

METHOD BLANK:	2449613	Matrix:	Water
Associated Lab Samples:	35395660001, 35395660002, 35395660003, 35395660004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	1.0 U	1.0	1.0	06/05/18 13:50	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 454976 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury, Low Level
Associated Lab Samples: 35395660001, 35395660002, 35395660006, 35395660007, 35395660008

METHOD BLANK: 2464433 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660006, 35395660007, 35395660008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	06/16/18 12:42	

METHOD BLANK: 2464434 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660006, 35395660007, 35395660008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	06/16/18 12:47	

METHOD BLANK: 2464435 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660006, 35395660007, 35395660008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	06/16/18 12:52	

LABORATORY CONTROL SAMPLE: 2464436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.84	97	77-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2464437 2464438

Parameter	Units	35395660006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.25 U	.5	.5	0.787	0.523	135	83	71-125	40	24	J(M1), J(R1)

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 452153 Analysis Method: SM10200
QC Batch Method: SM10200 Analysis Description: Chlorophyll & Pheophytin
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2448896 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorophyll a	mg/m3	2.2 U	5.0	2.2	06/12/18 14:21	
Chlorophyll a (Corrected)	mg/m3	2.2 U	5.0	2.2	06/12/18 14:21	
Chlorophyll b	mg/m3	2.2 U	5.0	2.2	06/12/18 14:21	
Chlorophyll c	mg/m3	2.2 U	5.0	2.2	06/12/18 14:21	
Pheophytin	mg/m3	2.2 U	5.0	2.2	06/12/18 14:21	

LABORATORY CONTROL SAMPLE: 2448897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorophyll a	mg/m3	10	10.4	104	85-115	

SAMPLE DUPLICATE: 2448898

Parameter	Units	35395660002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	mg/m3	4.7 I	8.3		40	
Chlorophyll a (Corrected)	mg/m3	3.5 U	3.2 U		40	
Chlorophyll b	mg/m3	3.5 U	3.2 U		40	
Chlorophyll c	mg/m3	3.5 U	3.2 U		40	
Pheophytin	mg/m3	109	100	9	40	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 454417 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2461665 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	06/14/18 15:50	

LABORATORY CONTROL SAMPLE: 2461666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 2461668

Parameter	Units	35397109002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	1	1.1	101	90-110	

SAMPLE DUPLICATE: 2461667

Parameter	Units	35397109002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	0.11	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 454131 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2460077 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	06/14/18 12:58	

LABORATORY CONTROL SAMPLE: 2460078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	18.9	95	90-110	

MATRIX SPIKE SAMPLE: 2460080

Parameter	Units	35395660001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.4	20	19.7	92	90-110	

MATRIX SPIKE SAMPLE: 2460082

Parameter	Units	35396108001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.6	20	21.3	93	90-110	

SAMPLE DUPLICATE: 2460079

Parameter	Units	35395660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.4	1.3	4	20	

SAMPLE DUPLICATE: 2460081

Parameter	Units	35396108001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.6	2.7	1	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 452115 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2448748 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	06/05/18 06:31	
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	06/05/18 06:31	

LABORATORY CONTROL SAMPLE: 2448749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 2448751

Parameter	Units	35395467001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.025	2	1.9	96	90-110	Q

MATRIX SPIKE SAMPLE: 2448753

Parameter	Units	35395707004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.13	2	2.0	95	90-110	

SAMPLE DUPLICATE: 2448750

Parameter	Units	35395467001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	<0.025	0.025 U		20	Q
Nitrogen, NO2 plus NO3	mg/L	<0.025	0.025 U		20	Q

SAMPLE DUPLICATE: 2448752

Parameter	Units	35395707004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.13	0.14	2	20	
Nitrogen, NO2 plus NO3	mg/L	0.13	0.14	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 454132 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2460083 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	06/14/18 13:37	

LABORATORY CONTROL SAMPLE: 2460084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.9	97	90-110	

MATRIX SPIKE SAMPLE: 2460086

Parameter	Units	35395660001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.39	4	4.3	97	80-120	

MATRIX SPIKE SAMPLE: 2460088

Parameter	Units	35396108001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.62	4	4.6	98	80-120	

SAMPLE DUPLICATE: 2460085

Parameter	Units	35395660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.39	0.41	4	20	

SAMPLE DUPLICATE: 2460087

Parameter	Units	35396108001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.62	0.65	4	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW

Pace Project No.: 35395660

QC Batch: 452142 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2448803 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	06/05/18 13:27	

LABORATORY CONTROL SAMPLE: 2448804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	494	487	98	90-110	

MATRIX SPIKE SAMPLE: 2448806

Parameter	Units	35395504001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	30.6	494	524	100	90-110	

MATRIX SPIKE SAMPLE: 2448808

Parameter	Units	35395500004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	59.1	494	545	98	90-110	

SAMPLE DUPLICATE: 2448805

Parameter	Units	35395504001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	30.6	30.0	2	20	

SAMPLE DUPLICATE: 2448807

Parameter	Units	35395500004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59.1	60.0	2	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lena Road Landfill SW
Pace Project No.: 35395660

QC Batch: 452798 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

METHOD BLANK: 2452689 Matrix: Water
Associated Lab Samples: 35395660001, 35395660002, 35395660003, 35395660004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	06/07/18 20:57	

LABORATORY CONTROL SAMPLE: 2452690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	20.8	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452691 2452692

Parameter	Units	35395500004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	20.9	20	20	39.8	39.4	95	93	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2452693 2452694

Parameter	Units	35395716001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.6	20	20	21.2	21.2	98	98	80-120	0	20	

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Lena Road Landfill SW

Pace Project No.: 35395660

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

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.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U Compound was analyzed for but not detected.

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

J(R1) Estimated Value. RPD value was outside control limits.

L Off-scale high. Actual value is known to be greater than value given.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

Q Sample held beyond the accepted holding time.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill SW
Pace Project No.: 35395660

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35395660001	SW-1				
35395660002	SW-2				
35395660003	SW-1 Dup				
35395660001	SW-1	EPA 8011	452340	EPA 8011	452624
35395660002	SW-2	EPA 8011	452340	EPA 8011	452624
35395660003	SW-1 Dup	EPA 8011	452340	EPA 8011	452624
35395660004	Field Blank	EPA 8011	452340	EPA 8011	452624
35395660005	Trip Blank	EPA 8011	452340	EPA 8011	452624
35395660001	SW-1	EPA 3010	452740	EPA 6010	452747
35395660002	SW-2	EPA 3010	452740	EPA 6010	452747
35395660003	SW-1 Dup	EPA 3010	452740	EPA 6010	452747
35395660004	Field Blank	EPA 3010	452740	EPA 6010	452747
35395660001	SW-1	EPA 3010	452741	EPA 6020	452748
35395660002	SW-2	EPA 3010	452741	EPA 6020	452748
35395660003	SW-1 Dup	EPA 3010	452741	EPA 6020	452748
35395660004	Field Blank	EPA 3010	452741	EPA 6020	452748
35395660001	SW-1	EPA 8260	453853		
35395660002	SW-2	EPA 8260	453853		
35395660003	SW-1 Dup	EPA 8260	453853		
35395660004	Field Blank	EPA 8260	453853		
35395660001	SW-1	SM 2540C	452185		
35395660002	SW-2	SM 2540C	452185		
35395660003	SW-1 Dup	SM 2540C	452185		
35395660004	Field Blank	SM 2540C	452185		
35395660001	SW-1	SM 2540D	452181		
35395660002	SW-2	SM 2540D	452181		
35395660003	SW-1 Dup	SM 2540D	452181		
35395660004	Field Blank	SM 2540D	452181		
35395660001	SW-1	SM 5210B	452043	SM 5210B	453373
35395660002	SW-2	SM 5210B	452043	SM 5210B	453373
35395660003	SW-1 Dup	SM 5210B	452043	SM 5210B	453373
35395660004	Field Blank	SM 5210B	452043	SM 5210B	453373
35395660001	SW-1	SM 9222D	452316	SM 9222D	452318
35395660002	SW-2	SM 9222D	452316	SM 9222D	452318
35395660003	SW-1 Dup	SM 9222D	452316	SM 9222D	452318
35395660004	Field Blank	SM 9222D	452316	SM 9222D	452318
35395660001	SW-1	EPA 1631E	454976	EPA 1631E	455059
35395660002	SW-2	EPA 1631E	454976	EPA 1631E	455059
35395660006	SW-2 Field Blank	EPA 1631E	454976	EPA 1631E	455059
35395660007	SW-2 Dup	EPA 1631E	454976	EPA 1631E	455059
35395660008	EQ Blank	EPA 1631E	454976	EPA 1631E	455059
35395660001	SW-1	SM10200	452153	SM10200	453814
35395660002	SW-2	SM10200	452153	SM10200	453814
35395660003	SW-1 Dup	SM10200	452153	SM10200	453814

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Road Landfill SW

Pace Project No.: 35395660

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35395660004	Field Blank	SM10200	452153	SM10200	453814
35395660001	SW-1	TKN+NOx Calculation	454694		
35395660002	SW-2	TKN+NOx Calculation	454694		
35395660003	SW-1 Dup	TKN+NOx Calculation	454694		
35395660004	Field Blank	TKN+NOx Calculation	454694		
35395660001	SW-1	EPA 350.1	454417		
35395660002	SW-2	EPA 350.1	454417		
35395660003	SW-1 Dup	EPA 350.1	454417		
35395660004	Field Blank	EPA 350.1	454417		
35395660001	SW-1	EPA 351.2	454131	EPA 351.2	454541
35395660002	SW-2	EPA 351.2	454131	EPA 351.2	454541
35395660003	SW-1 Dup	EPA 351.2	454131	EPA 351.2	454541
35395660004	Field Blank	EPA 351.2	454131	EPA 351.2	454541
35395660001	SW-1	EPA 353.2	452115		
35395660002	SW-2	EPA 353.2	452115		
35395660003	SW-1 Dup	EPA 353.2	452115		
35395660004	Field Blank	EPA 353.2	452115		
35395660001	SW-1	EPA 365.4	454132	EPA 365.4	454542
35395660002	SW-2	EPA 365.4	454132	EPA 365.4	454542
35395660003	SW-1 Dup	EPA 365.4	454132	EPA 365.4	454542
35395660004	Field Blank	EPA 365.4	454132	EPA 365.4	454542
35395660001	SW-1	EPA 410.4	452142	EPA 410.4	452309
35395660002	SW-2	EPA 410.4	452142	EPA 410.4	452309
35395660003	SW-1 Dup	EPA 410.4	452142	EPA 410.4	452309
35395660004	Field Blank	EPA 410.4	452142	EPA 410.4	452309
35395660001	SW-1	SM 5310B	452798		
35395660002	SW-2	SM 5310B	452798		
35395660003	SW-1 Dup	SM 5310B	452798		
35395660004	Field Blank	SM 5310B	452798		
35395660001	SW-1	FLDEP SOP 10/03/83	454676		
35395660002	SW-2	FLDEP SOP 10/03/83	454676		
35395660003	SW-1 Dup	FLDEP SOP 10/03/83	454676		
35395660004	Field Blank	FLDEP SOP 10/03/83	454676		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35395660

PM: CEM Due Date: 06/18/18
CLIENT: MANCOU-SW

Date and Initials of person:

Examining contents: mvl

Label: 6/4/18

Deliver: ↓

pH: ✓

Thermometer Used: T203

Date: 6/4/18

Time: 1240

Initials: mvl

State of Origin: FL

☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C 9.5 (Visual) 0.0 (Correction Factor) 9.5 (Actual)

Cooler #2 Temp. °C 3.2 (Visual) 0.0 (Correction Factor) 3.2 (Actual)

Cooler #3 Temp. °C 26.5 (Visual) 0.0 (Correction Factor) 26.5 (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☒ Samples on ice, cooling process has begun

☒ Samples on ice, cooling process has begun

☒ Samples on ice, cooling process has begun

☒ Samples on ice, cooling process has begun

☒ Samples on ice, cooling process has begun

☒ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	<u>Time on SW-2 is 8:30</u>
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	Preservative: _____
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		Lot #/Trace #: _____
		Date: _____ Time: _____
		Initials: _____
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments): TB with SW-1 & Dmp
Did not receive SW-1/Blank and EG/Blank

Project Manager Review: _____

Date: _____ Page 47 of 48



Document Name:
Field Sampling Log
Document Number:
F-FL-C-022 rev.00

Date Revised:
December 3, 2012
Issuing Authority:
Pace Florida Quality Office

Field Sampling Log

Arrived on Site Date 6-4-18 Time: 0800 Departed Site 6-4-18 Time: 1100

Sampler's Signature H. BOGUES Sampler's Name HOWARD BOGUES

CLIENT NAME: MANATEE COUNTY PROJECT NAME: LENA RD LANDFILL

CLIENT CONTACT: BOB BENNETT SITE CONTACT: BOB BENNETT

Personnel on Site: _____

SITE Location: LENA RD BRADENTON FL.

Ambient Conditions: _____

Brief Description of Field Activities: COLLECT GRAB SAMPLES SURFACE WATER

Field Equipment Used: YSI, GLOVES

Decon Procedures: Yes / No _____ If Yes. Please Describe _____

Field Filtering: Yes / No _____ If Yes. Please Describe _____

Sample Matrix: DW GW WW SU STW SO SE ML Other: _____

Physical Characteristics of Sample : _____

Sampling Method: GRAB ☒ COMPOSITE _____

For Composite Sampling; Document Sampling Procedure for Collecting a Representative Sample:

QC Blanks: ☒ Precleaned EQB _____ Field Cleaned EQB _____

Field Blanks ☒ Trip Blanks ☒ QC Samples: _____ Duplicate ☒ Replicate Samples _____

Split Samples(explain) _____

Sx. Location	Date and Time	Parameters	Appearance	Odor	pH	Temp °C	Conductivity	DO	Turbidity
DW-2/ SW	6-4-18 0830		ORANGE	NONE	7.08	25.9	515	0.80	9.54
DW-2/EQ	6-4-18 0815								
DW-1/DUP	6-4-18 0945		ORANGE	NONE	6.71	27.3	437.1	2.30	14.5
DW-1/EQ	6-4-18 0930								

Calibration of Meters

Meter	Y / N	Standard	Slope	Variance	Value

Other Notation's or Anomalies: _____

APPENDIX B
COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND
ADaPT FILE