

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

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

SCS ENGINEERS

09217088.10 | March 5, 2019

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

Submitted to:

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

Prepared by:

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March 5, 2019
File No. 09217088.10



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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

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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

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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.

03-04-2019
(Date)

Bryan White

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

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- 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-S0/01, 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 second semi-annual 2018 groundwater data were obtained on November 7th through November 9th, 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.

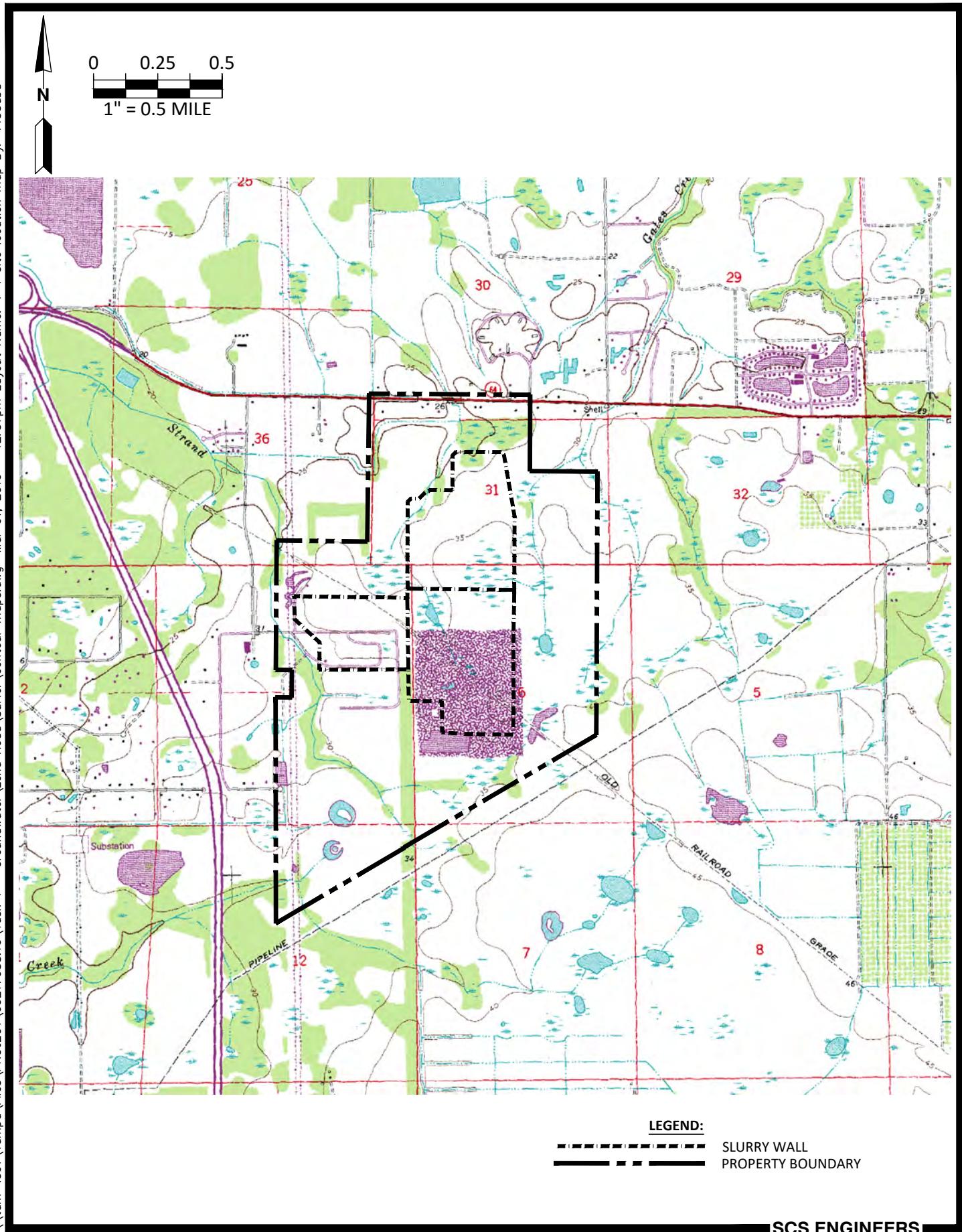
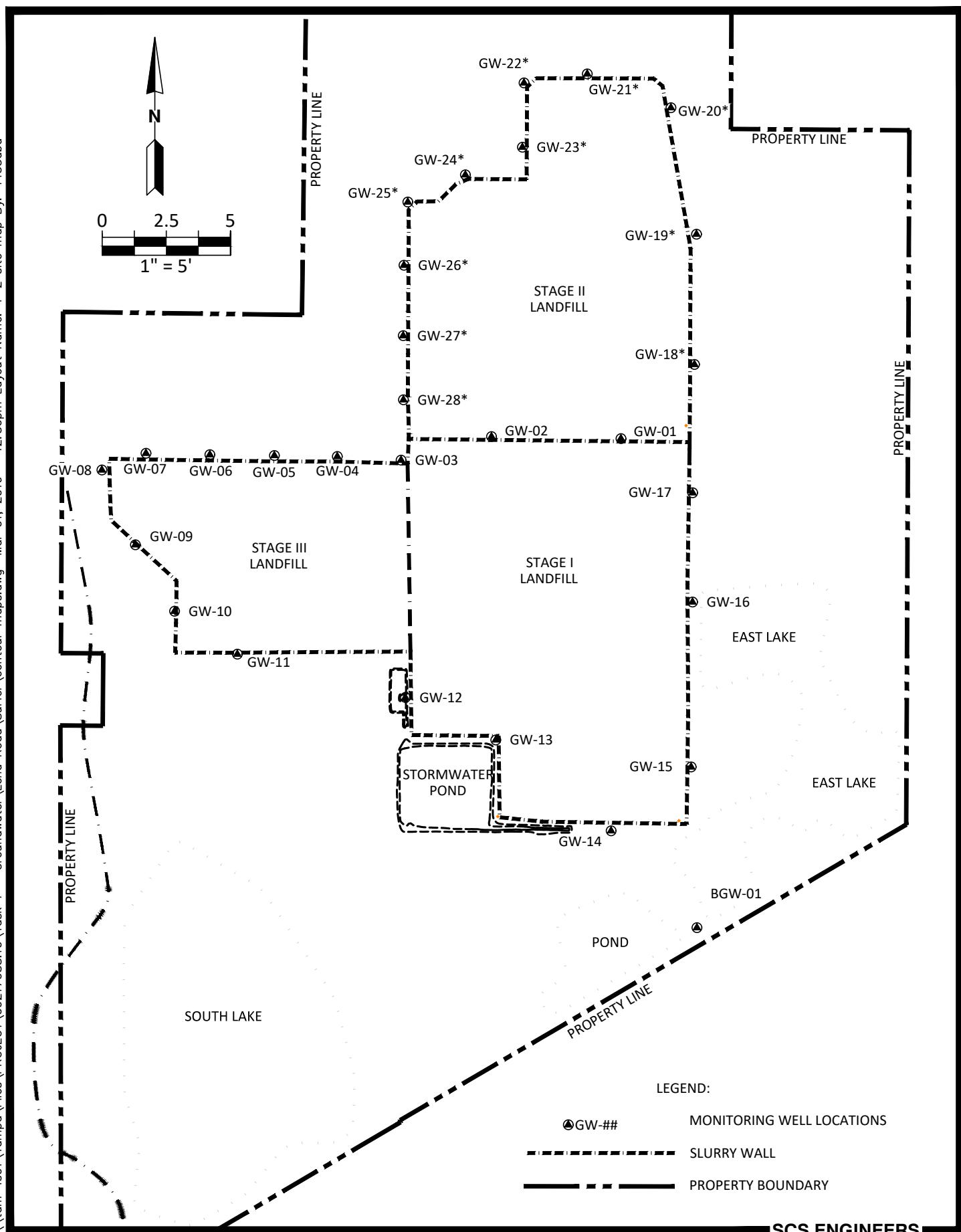


FIGURE 1-1. LOCATION MAP
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

SCS ENGINEERS



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 clastics overlie 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 Landfill site:

- 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 November 7th through the 9th, 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 November 7th through 9th, 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 November 2018 potentiometric map, groundwater flow direction is toward the north-northwest.

Table 2-1. Water Level Data, November 7-9, 2018
Lena Landfill, Manatee County, Florida

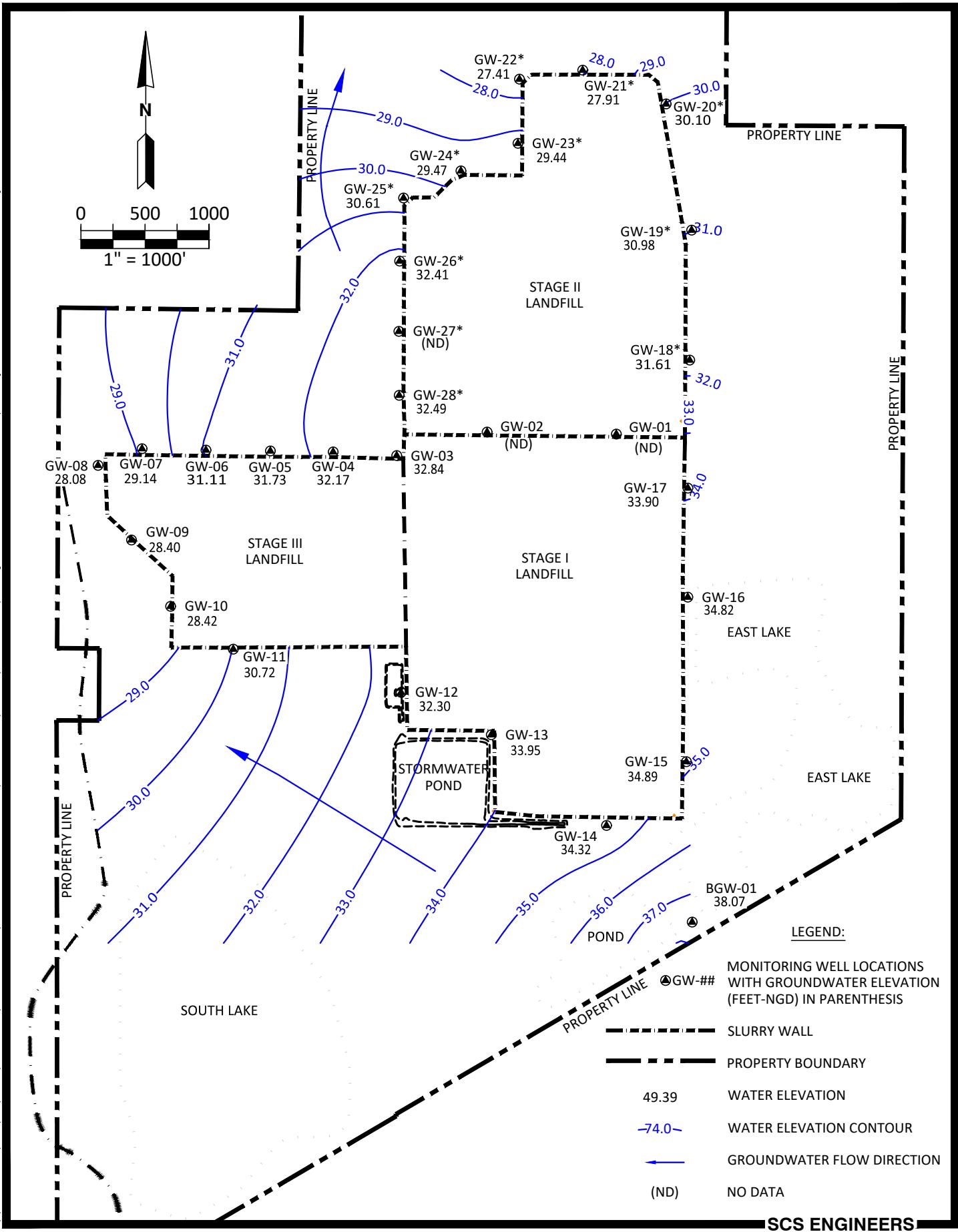
Location ID	Top of Casing (Feet NGVD)	Depth to Water (Feet Below Top of Casing)	11/7-9/2018 Groundwater Elevation (Feet NGVD)
GW-1	38.68	ND	ND
GW-2	40.92	ND	ND
GW-3	39.40	6.56	32.84
GW-4	40.53	8.36	32.17
GW-5	39.90	8.17	31.73
GW-6	38.95	7.84	31.11
GW-7	39.49	10.35	29.14
GW-8	39.75	11.67	28.08
GW-9	39.65	11.25	28.40
GW-10	38.34	9.92	28.42
GW-11	38.26	7.54	30.72
GW-12	42.09	9.79	32.30
GW-13	44.79	10.84	33.95
GW-14	39.63	5.31	34.32
GW-15	42.33	7.44	34.89
GW-16	44.41	9.59	34.82
GW-17	42.19	8.29	33.90
GW-18	41.76	10.15	31.61
GW-19	41.20	10.22	30.98
GW-20	41.00	10.90	30.10
GW-21	40.94	13.03	27.91
GW-22	41.53	14.12	27.41
GW-23	40.91	11.47	29.44
GW-24	41.37	11.90	29.47
GW-25	41.11	10.50	30.61
GW-26	41.44	9.03	32.41
GW-27R	40.90	8.41	32.49
BGW-1	47.57	9.50	38.07

Notes:

NGVD = National Geodetic Vertical Datum.

MW = Monitoring Well

NM = No Measurement



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-27R and BW-1. 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 semi-annual 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.

¹ Florida 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 (BOD_5)
- 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 ($\mu\text{g}/\text{L}$) in monitoring well GW-5 (10.5 $\mu\text{g}/\text{L}$), GW-10 (10.5 $\mu\text{g}/\text{L}$), GW-13 (13.7 $\mu\text{g}/\text{L}$), GW-18 (19.7 $\mu\text{g}/\text{L}$), GW-20 (27.3 $\mu\text{g}/\text{L}$), GW-22 (15.8 $\mu\text{g}/\text{L}$), and GW-27R (30.7 $\mu\text{g}/\text{L}$), during the second semi-annual 2018 sampling event. Arsenic concentrations in GW-10 have exceeded in previous sampling events but are trending downward. Arsenic concentrations at GW-5, GW-13, GW-18, GW-20, and GW-27R are within historical concentration ranges.

Arsenic concentrations in GW-22 have not exceeded the PDWS during the previous sampling events, however, the arsenic concentration at GW-22 was a first time exceedance during the November 2018 sampling event. The arsenic does not appear to be from landfill liquids as the leachate indicator parameters (sodium and chloride) are stable and not increasing.

Arsenic concentrations at GW-5, GW-10, GW-13, GW-18, GW-20, GW-22 and GW-27R will continue to be monitored during subsequent monitoring events.

Iron

Iron was detected above the FDEP SDWS of 300 $\mu\text{g}/\text{L}$ in 26 of the monitoring wells during the November 2018 groundwater sampling event. Iron concentrations in monitoring wells GW-3, GW-4, GW-8, GW-11 and GW-16, were below the SDWS, other wells reported iron at concentrations exceeding the SDWS. The iron concentrations during the November 2018 sampling event were generally consistent with historical data.

Vanadium

Vanadium was detected above the GCTL of 49 micrograms per liter ($\mu\text{g}/\text{L}$) in monitoring well GW-10 (80.4 $\mu\text{g}/\text{L}$) during the second semi-annual 2018 sampling event. Vanadium concentrations at GW-10 will continue to be monitored during subsequent monitoring events.

Table 4-1. Summary of Groundwater Quality Analytical Results (Detected Parameters Only)
Lena Landfill, November 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																													
Acetone	GCTL	6300	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Metals																													
Antimony	PDWS	6	ug/L	0.5 U	0.83 I	0.72 I	0.5 U	1.1	0.5 U	0.5 U	0.5 U	3.8	0.5 U	2.6	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Arsenic	PDWS	10	ug/L	5.4	2.7	1.3	10.5	5.5	9.5	5.8	5.1	10.5	1.5	3.5	13.7	2.8	7	1.4	1.7	19.7	9.5	27.3	5.8	15.8	6	8.7	8.3	7	30.7
Barium	PDWS	2000	ug/L	27.7	16.2	14.7	22	19.3	7.7 I	8.3 I	11	19.9	11.4	37.9	31.1	36.4	60.1	19.6	5.5 I	35	6.3 I	11.7	12.1	24.2	12	12.9	20.4	21	15.4
Chromium	PDWS	100	ug/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2 I	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.4	1.7 U	6.8	2.3 I	3 I	6	1.7 U	1.7 U	1.7 U	2.1 I	1.7 U	
Cobalt	GCTL	140	ug/L	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U		
Copper	SDWS	1000	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U		
Iron	SDWS	300	ug/L	7950	206	279	16400	666	1490	46.5	509	3210	195	549	7730	3600	22200	58.2	6180	12600	3110	2830	1260	9510	2630	13200	5230	8430	9960
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	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	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Nickel	PDWS	100	ug/L	2.1 U	2.1 U	2.1 U	2.1 I	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	
Selenium	PDWS	50	ug/L	0.78 I	1.9	0.98 I	2.5	1.4	2.5	0.83 I	1.5	4	0.5 U	3.7	3.4	1.8	2	0.81 I	1.6	4	1.5	3.9	1	2.7	1.1	1.2	0.64 I	0.5 U	4.1
Sodium	PDWS	160	mg/L	19.4	8.8	4.3	20.2	4.6	15	16.5	5.3	7.7	21.8	4.4	15.2	12.8	50.8	59.8	2.3	12.1	10.2	6.4	3.7	4.4	4.7	5.5	8.5	11	6.3
Thallium	PDWS	2	ug/L	0.5 U	0.5 U	0.5 U	0.56 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	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	0.5 U	0.5 U	0.5 U		
Vanadium	GCTL	49	ug/L	7 I	13.3	20	12.8	12.5	5.5 I	2.6 I	6.9 I	80.4	1.4 I	37.1	8.1 I	2 I	36.1	6.6 I	28	13.8	9.6 I	6.2 I	5.1 I	23	4.4 I	6.7 I	5.5 I	5 I	8.1 I
General Chemistry																													
Ammonia (N)	GCTL	2.8	mg/L	1.4	0.19	0.4	1	1.2	0.66	0.92	0.6	4.8	0.13	0.27	4.8	0.35	0.94	0.89	0.98	1.3	1.4	1.5	0.36	2.3	1.2	2.3	1.2	1	1.3
Chloride	SDWS	250	mg/L	31	14.6	8.5	25	4.6 I	15.1	18.5	5.6	9.2	20.6	4.8 I	11	12.8	75.7	80.2	4 I	15.3	18.1	10.9	9.6	8.1	5.7	7.4	10.5	16.5	9.9
Nitrate (N)	PDWS	10	mg/L	0.029 I	0.13	0.025 U	0.11	0.03 I	0.026 I	0.025 U	0.025 U	0.025 U	0.064	0.025 U	0.07	0.027 I	0.025 U	0.025 U	0.054	0.025 U	0.058	0.13	0.064	0.059	0.025 U	0.025 U	0.077	0.059	
Residues- Filterable (TDS)	SDWS	500	mg/L	256	412	291	547	611	284	285	277	317	286	426	700	629	602	350	77	367	243	267	173	201	200	280	237	351	314
Field Parameter																													
Specific Conductance	NS	NS	umhos/cm	488	633	428.3	882	919	464.2	435.6	517	614	528	731	1281	1046	984	676	131.6	567	313.8	356.6	205.7	287.2	308.7	417	401.9	548	527
Dissolved Oxygen	NS	NS	mg/L	0.95	0.58	0.26	0.26	0.25	0.22	0.37	0.45	0.84	0.36	0.42	0.47	0.66	0.25	0.31	0.3	0.35	0.42	0.51	0.54	0.27	0.5	0.47	0.26	0.25	0.4
Dissolved Oxygen	MPIS	20	% Sat.	12.36	7.28	3.26	3.32	3.2	2.81	4.73	5.65	10.36	4.44	5.27	6.01	8.29	3.2	3.89	3.77	4.47	5.37	6.52	6.9	3.45	6.39	6.11	3.32	3.14	5.11
pH	SDWS	6.5-8.5	U	6.68	6.6	6.6	6.53	6.8	6.78	6.99	6.62	6.73	6.87	6.7	6.63	6.68	6.66	7.04	5.98	6.11	6.25	6.47	5.92	6.35	6.43	6.71	6.28	6.58	
Temperature, Water	NS	NS	deg C	28.8	27.4	27.2	28	27.7	28	28.1	27.3	25.9	25.9	27.2	27.9	26.7	27.8	27.1	26.9	27.8	27.7	27.8	28.1	28.1	28.5	28.6	27.6	27.4	27.6
Turbidity	NS	NS	NTU	3.2	0.66	0.01	7.7 I	0.53	2.65	3.24	0.02	10.5	2.51	0.02	0.02	9.5	1.03	1.26	7.8	13.2	0.01	1.24	0.05	15.4	0.06	0.04	4.32	6.35	0.1

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 November 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-10 (4.8 mg/L) and GW-13 (4.8 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 GW-17, GW-18, GW-19, GW-20, GW-21, GW-22, GW-23, GW-24, and GW-26. pH will continue to be monitored during subsequent monitoring events.

TDS

During the November 2018 sampling event, TDS concentrations exceeded the SDWS of 500 mg/L in compliance monitoring wells GW-5 (547 mg/L), GW-6 (611 mg/L), GW-13 (700 mg/L), GW-14 (629 mg/L) and GW-15 (602 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 1,000 µg/L in SW-1 (7,600 µg/L) and SW-2 (164,000 µg/L) during the November 2018 groundwater sampling event. The iron concentrations during the November 2018 and previous sampling events fluctuates when compared to historical data.

During the November 2018 ground water sampling event, surface water sample location SW-2 had detections above the MCL for Arsenic (50 µg/L), Mercury (0.012 µg/L), and Selenium (5 µg/L). The exceedances were 913 µg/L, 0.017 µg/L, and 119 µg/L respectively. The metal concentrations appear to be related to an elevated turbidity reading.

The dissolved oxygen concentrations at SW-1 (2.04 mg/L) and SW-2 (0.84 mg/L) were 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. The pH concentration at SW-2 was slightly below its MCL of 6.5-8.5 SU during the second semi-annual sampling event. The pH at SW-2 is consistent with historically low pH concentrations in this region. Other concentrations of sampled parameters did not exceed their respective Surface Water Criteria during the November 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, November 2018

Parameter	MCL	Units	SW-1	SW-2
Volatile Organic Compounds				
Acetone	1700	ug/L	10 U	11.3 I
Chlorophyll a	NS	ug/L	3.8 U	147
Chlorophyll a- uncorrected	NS	ug/L	3.9 I	220
Metals				
Antimony	4300	ug/L	0.5 U	3
Arsenic	50	ug/L	6.5	913
Barium	NS	ug/L	22.1	153
Calcium	NS	mg/L	48.6	224
Chromium	11	ug/L	1.7 U	3.5 I
Calculated Chromium MCL		ug/L	136.92	268.221
Cobalt	NS	ug/L	0.96 U	2.2 I
Copper	2.85	ug/L	2.6 U	20.9
Calculated Copper MCL		ug/L	15.12	30.499
Iron	1000	ug/L	7600	164000
Lead	0.5448	ug/L	1	14.9
Calculated Lead MCL		ug/L	6.53	18.58
Magnesium	NS	mg/L	13.4	64.6
Mercury	0.012	ug/L	0.00864	0.017
Nickel	16.1443	ug/L	2.1 U	5.7 I
Calculated Nickel MCL		ug/L	84.15	168.54
Selenium	5	ug/L	1.5	119
Silver	0.07	ug/L	0.05 U	0.059 I
Vanadium	NS	ug/L	2.6 I	25.8
Zinc	37.0161	ug/L	14.8 I	53.9
Calculated Zinc MCL		ug/L	193.437	387.83
General Chemistry				
Ammonia (N)	NS	mg/L	0.78	0.52 U
BOD	NS	mg/L	2 U	7
COD	NS	mg/L	70.1	335
Carbon- Total Organic	NS	mg/L	18.6	42.3
Hardness- Calculated	NS	mg/L	176	826
Nitrate (N)	NS	mg/L	0.23	0.025 U
Nitrate-Nitrite (N)	NS	mg/L	0.29	0.033 U
Nitrogen- Total	NS	mg/L	2.7	2.2
Nitrogen- Total Kjeldahl	NS	mg/L	2.4	2.2
Phosphorus- Total	NS	mg/L	0.92	1.4
Residues- Filterable (TDS)	NS	mg/L	305	1130
Residues- Nonfilterable (TSS)	NS	mg/L	20.6	922
Field Parameters				
Specific Conductance	1275	umhos/cm	478.1	1452
Dissolved Oxygen	>5.0	mg/L	2.04	0.84
pH	6.5-8.5	Std. Units	7.04	6.24
Temperature, Water	NS	deg C	24.1	22.8
Turbidity	<29	NTU	12.4	16.3

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 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-5, GW-10, GW-13, GW-18, GW-20, GW-22, and GW-27R, during the November 2018 sampling event. Arsenic concentrations at GW-5, GW-10, GW-13, GW-18, GW-20, and GW-27R are within historical concentration ranges. Arsenic concentrations in GW-22 have not exceeded the PDWS during the previous sampling events, however, the arsenic concentration at GW-22 was a first time exceedance during the November 2018 sampling event. The arsenic does not appear to be from landfill liquids as the leachate indicator parameters (sodium and chloride) are stable and not increasing.
- Iron in groundwater was detected above the FDEP SDWS of 300 µg/L in most monitoring wells during the November 2018 groundwater sampling event, with the exception of GW-3, GW-4, GW-8, GW-11 and GW-16. The iron concentrations during the November 2018 sampling event were generally consistent with historical data.
- Vanadium was detected above the GCTL of 49 micrograms per liter (µg/L) in monitoring well GW-10 (80.4 µg/L) during the November 2018 sampling event.
- 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 November 2018 sampling event.
- Surface water sample location SW-2 had detections above the MCL for Arsenic, Mercury, and Selenium. The metal concentrations appear to be related to an elevated turbidity reading.
- 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 November 2018 sampling event. These detections were consistent with historical data.
- Field pH was slightly below the Surface Water criteria of 6.5-8.5 SU during the second semi-annual sampling event at SW-2. Low field pH is consistent with historical data at SW-2.

APPENDIX A

LABORATORY ANALYTICAL RESULTS AND FIELD FORMS

January 11, 2019

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

RE: Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Dear Anthony Detweiler:

Enclosed are the analytical results for sample(s) received by the laboratory between November 07, 2018 and November 12, 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,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
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
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

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SAMPLE SUMMARY

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35429268001	GW-25	Water	11/07/18 08:29	11/07/18 18:30
35429268002	GW-26	Water	11/07/18 09:54	11/07/18 18:30
35429268003	GW-27	Water	11/07/18 10:38	11/07/18 18:30
35429268004	GW-3	Water	11/07/18 11:34	11/07/18 18:30
35429268005	GW-4	Water	11/07/18 12:32	11/07/18 18:30
35429268006	GW-5	Water	11/07/18 13:26	11/07/18 18:30
35429268007	GW-6	Water	11/07/18 14:16	11/07/18 18:30
35429268008	EQ Blank 1	Water	11/07/18 14:40	11/07/18 18:30
35429268009	GW-7	Water	11/07/18 15:17	11/07/18 18:30
35429268010	GW-7 Dup	Water	11/07/18 15:17	11/07/18 18:30
35429268011	GW-8	Water	11/07/18 16:17	11/07/18 18:30
35429268012	Trip Blank 1	Water	11/07/18 08:29	11/07/18 18:30
35429580001	GW-9	Water	11/08/18 07:52	11/08/18 17:45
35429580002	GW-10	Water	11/08/18 08:36	11/08/18 17:45
35429580003	GW-11	Water	11/08/18 09:47	11/08/18 17:45
35429580004	GW-12	Water	11/08/18 10:24	11/08/18 17:45
35429580005	GW-13	Water	11/08/18 11:09	11/08/18 17:45
35429580006	GW-14	Water	11/08/18 11:54	11/08/18 17:45
35429580007	BGW-1	Water	11/08/18 12:44	11/08/18 17:45
35429580008	GW-15	Water	11/08/18 13:20	11/08/18 17:45
35429580009	GW-16	Water	11/08/18 14:00	11/08/18 17:45
35429580010	GW-17	Water	11/08/18 14:43	11/08/18 17:45
35429580011	GW-18	Water	11/08/18 15:34	11/08/18 17:45
35429580012	Equip Blank 2	Water	11/08/18 15:00	11/08/18 17:45
35429580013	GW-15 Dup	Water	11/08/18 13:20	11/08/18 17:45
35429580014	Trip Blank 2	Water	11/08/18 07:52	11/08/18 17:45
35429909001	GW-20	Water	11/09/18 10:12	11/09/18 15:45
35429909002	GW-21	Water	11/09/18 10:55	11/09/18 15:45
35429909003	GW-22	Water	11/09/18 11:38	11/09/18 15:45
35429909004	GW-23	Water	11/09/18 12:22	11/09/18 15:45
35429909005	GW-24	Water	11/09/18 13:01	11/09/18 15:45
35429909006	GW-19	Water	11/09/18 09:27	11/09/18 15:45
35429909007	Trip Blank 3	Water	11/09/18 09:27	11/09/18 15:45
35430379001	SW-1	Water	11/12/18 09:30	11/12/18 16:10
35430379002	SW-2	Water	11/12/18 08:30	11/12/18 16:10
35430379003	SW-1 Dup	Water	11/12/18 09:30	11/12/18 16:10
35430379004	Field Blank	Water	11/12/18 09:25	11/12/18 16:10

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SAMPLE SUMMARY

Project: Lena Rd Landfill (Existing)
 Pace Project No.: 35429268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35430379005	Trip Blank 4	Water	11/12/18 09:30	11/12/18 16:10
35430379006	SW-1 LL Hg Field Blank	Water	11/12/18 09:30	11/12/18 16:10
35430379007	SW-2 LL Hg Field Blank	Water	11/12/18 08:30	11/12/18 16:10
35430379008	Field Blank LL Hg Dup	Water	11/12/18 09:30	11/12/18 16:10
35430379009	Field Blank Hg Dup Field Blank	Water	11/12/18 09:30	11/12/18 16:10
35430379010	Field Blank LL Hg Field Blank	Water	11/12/18 09:25	11/12/18 16:10

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429268001	GW-25	EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
35429268002	GW-26	EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
35429268003	GW-27	EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
35429268004	GW-3	EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
35429268005	GW-4	EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429268006	GW-5	EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
35429268007	GW-6	EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
35429268008	EQ Blank 1	EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
35429268009	GW-7	EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429268010	GW-7 Dup	EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
35429268011	GW-8	EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
35429268012	Trip Blank 1	EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
35429580001	GW-9	EPA 300.0	SEW	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	SC1	12	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	CMB	1	PASI-O
35429580002	GW-10	EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429580003	GW-11	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	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	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	CMB	1	PASI-O
35429580004	GW-12	EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	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	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
35429580005	GW-13	EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTM	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
35429580006	GW-14	EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429580007	BGW-1	EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
35429580008	GW-15	EPA 300.0	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
35429580009	GW-16	EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	BTN	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	JWH	1	PASI-O
		EPA 353.2	JWH	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O
35429580010	GW-17	EPA 7470	AMS	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	JWP	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory	
35429580011	GW-18	EPA 8260	BTN	48	PASI-O	
		SM 2540C	LF	1	PASI-Tp	
		EPA 300.0	CMB	1	PASI-O	
		EPA 350.1	JWH	1	PASI-O	
		EPA 353.2	JWH	1	PASI-O	
		EPA 8011	SMH	2	PASI-O	
		EPA 6010	JWP	13	PASI-O	
		EPA 6020	KPP	5	PASI-O	
		EPA 7470	AMS	1	PASI-O	
		EPA 8260	BTN	48	PASI-O	
35429580012	Equip Blank 2	SM 2540C	LF	1	PASI-Tp	
		EPA 300.0	CMB	1	PASI-O	
		EPA 350.1	JWH	1	PASI-O	
		EPA 353.2	JWH	1	PASI-O	
		EPA 8011	SMH	2	PASI-O	
		EPA 6010	JWP	13	PASI-O	
		EPA 6020	KPP	5	PASI-O	
		EPA 7470	AMS	1	PASI-O	
35429580013	GW-15 Dup	EPA 8260	BTN	48	PASI-O	
		SM 2540C	LF	1	PASI-Tp	
		EPA 300.0	CMB	1	PASI-O	
		EPA 350.1	JWH	1	PASI-O	
		EPA 353.2	JWH	1	PASI-O	
		EPA 8011	SMH	2	PASI-O	
		EPA 6010	JWP	13	PASI-O	
		EPA 6020	KPP	5	PASI-O	
		EPA 7470	AMS	1	PASI-O	
		EPA 8260	BTN	48	PASI-O	
35429580014	Trip Blank 2	SM 2540C	LF	1	PASI-Tp	
		EPA 300.0	CMB	1	PASI-O	
		EPA 350.1	JWH	1	PASI-O	
		EPA 353.2	JWH	1	PASI-O	
35429909001	GW-20	EPA 8011	SMH	2	PASI-O	
		EPA 8011	SMH	2	PASI-O	
		EPA 6010	LEC	13	PASI-O	
		EPA 6020	KPP	5	PASI-O	
		EPA 7470	AMS	1	PASI-O	

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429909002	GW-21	EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O
35429909003	GW-22	SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	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
35429909004	GW-23	EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	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	CMB	1	PASI-O
35429909005	GW-24	EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	13	PASI-O
		EPA 6020	KPP	5	PASI-O
		EPA 7470	AMS	1	PASI-O
		EPA 8260	SK1	48	PASI-O

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35429909006	GW-19	SM 2540C	LF	1	PASI-Tp
		EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	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
35429909007	Trip Blank 3	EPA 300.0	CMB	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 353.2	SEW	1	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 8011	SMH	2	PASI-O
35430379001	SW-1	EPA 6010	LEC	13	PASI-O
		EPA 6020	KPP	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	CMB	1	PASI-O
		SM10200	FGF	5	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
35430379002	SW-2	EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	2	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC, SC1	13	PASI-O
		EPA 6020	KPP	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35430379003	SW-1 Dup	SM 2540D	LF	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	CMB	1	PASI-O
		SM10200	FGF	5	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	2	PASI-O
		EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	13	PASI-O
		EPA 6020	KPP	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp
		SM 5210B	CMB	1	PASI-O
		SM10200	FGF	5	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	2	PASI-O
35430379004	Field Blank	EPA 8011	SMH	2	PASI-O
		EPA 6010	LEC	13	PASI-O
		EPA 6020	KPP	6	PASI-O
		EPA 8260	SK1	48	PASI-O
		SM 2540C	LF	1	PASI-Tp
		SM 2540D	LF	1	PASI-Tp
		SM 9222D	HG1	1	PASI-Tp

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SAMPLE ANALYTE COUNT

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 1631E	CLG	1	PASI-Tp
		SM 5210B	CMB	1	PASI-O
		SM10200	FGF	5	PASI-O
		TKN+NOx Calculation	JMD	1	PASI-O
		EPA 350.1	CLL	1	PASI-O
		EPA 351.2	JMD	1	PASI-O
		EPA 353.2	JWH	2	PASI-O
		EPA 365.4	JMD	1	PASI-O
		EPA 410.4	FGF	1	PASI-O
		SM 5310B	FGF	1	PASI-O
		FLDEP SOP 10/03/83	CLL	2	PASI-O
35430379005	Trip Blank 4	EPA 8011	SMH	2	PASI-O
35430379006	SW-1 LL Hg Field Blank	EPA 1631E	CLG	1	PASI-Tp
35430379007	SW-2 LL Hg Field Blank	EPA 1631E	CLG	1	PASI-Tp
35430379008	Field Blank LL Hg Dup	EPA 1631E	CLG	1	PASI-Tp
35430379009	Field Blank Hg Dup Field Blank	EPA 1631E	CLG	1	PASI-Tp
35430379010	Field Blank LL Hg Field Blank	EPA 1631E	CLG	1	PASI-Tp

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-25 Lab ID: **35429268001** Collected: 11/07/18 08:29 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.71	Std. Units			1		11/07/18 08:29		
Field Temperature	27.6	deg C			1		11/07/18 08:29		
Field Specific Conductance	401.9	umhos/cm			1		11/07/18 08:29		
Oxygen, Dissolved	0.26	mg/L			1		11/07/18 08:29	7782-44-7	
Turbidity	4.32	NTU			1		11/07/18 08:29		
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	11/12/18 10:18	11/13/18 19:38	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 19:38	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	20.4	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 15:51	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 15:51	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 15:51	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 15:51	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 15:51	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 15:51	7440-50-8	
Iron	5230	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 15:51	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 15:51	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 15:51	7440-22-4	
Sodium	8.5	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 15:51	7440-23-5	
Vanadium	5.5 I	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 15:51	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 15:51	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	11/09/18 03:48	11/10/18 14:45	7440-36-0	
Arsenic	8.3	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:45	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:45	7439-92-1	
Selenium	0.64 I	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 14:57	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 14:55	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 14:55	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 14:55	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 14:55	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 14:55	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 14:55	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 14:55	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 14:55	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-25	Lab ID: 35429268001	Collected: 11/07/18 08:29	Received: 11/07/18 18:30	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		11/16/18 14:55	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 14:55	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 14:55	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 14:55	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 14:55	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 14:55	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 14:55	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 14:55	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 14:55	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 14:55	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 14:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 14:55	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 14:55	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 14:55	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 14:55	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 14:55	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 14:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/16/18 14:55	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/16/18 14:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/16/18 14:55	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	237	mg/L	5.0	5.0	1		11/09/18 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	10.5	mg/L	5.0	2.5	1		11/15/18 15:21	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-25	Lab ID: 35429268001	Collected: 11/07/18 08:29	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.2	mg/L	0.050	0.035	1		11/14/18 09:37	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		11/08/18 08:07	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-26 Lab ID: **35429268002** Collected: 11/07/18 09:54 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.28	Std. Units			1		11/07/18 09:54		
Field Temperature	27.4	deg C			1		11/07/18 09:54		
Field Specific Conductance	548	umhos/cm			1		11/07/18 09:54		
Oxygen, Dissolved	0.25	mg/L			1		11/07/18 09:54	7782-44-7	
Turbidity	6.35	NTU			1		11/07/18 09:54		
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	11/12/18 10:18	11/13/18 19:53	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 19:53	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	21.0	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 16:02	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 16:02	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 16:02	7440-43-9	
Chromium	2.1 I	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 16:02	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 16:02	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 16:02	7440-50-8	
Iron	8430	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 16:02	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 16:02	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 16:02	7440-22-4	
Sodium	11.0	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 16:02	7440-23-5	
Vanadium	5.0 I	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 16:02	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 16:02	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	11/09/18 03:48	11/10/18 14:46	7440-36-0	
Arsenic	7.0	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:46	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:46	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 14:59	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:22	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 15:20	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:20	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 15:20	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 15:20	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 15:20	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:20	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:20	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 15:20	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-26	Lab ID: 35429268002	Collected: 11/07/18 09:54	Received: 11/07/18 18:30	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		11/16/18 15:20	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 15:20	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 15:20	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 15:20	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 15:20	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:20	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 15:20	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 15:20	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:20	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 15:20	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 15:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:20	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 15:20	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 15:20	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 15:20	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:20	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 15:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/16/18 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		11/16/18 15:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 15:20	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	351	mg/L	5.0	5.0	1		11/09/18 14:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	16.5	mg/L	5.0	2.5	1		11/08/18 18:36	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-26	Lab ID: 35429268002	Collected: 11/07/18 09:54	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.0	mg/L	0.050	0.035	1		11/14/18 09:39	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.077	mg/L	0.050	0.025	1		11/08/18 10:14	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-27 Lab ID: **35429268003** Collected: 11/07/18 10:38 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.58	Std. Units			1		11/07/18 10:38		
Field Temperature	27.6	deg C			1		11/07/18 10:38		
Field Specific Conductance	527	umhos/cm			1		11/07/18 10:38		
Oxygen, Dissolved	0.40	mg/L			1		11/07/18 10:38	7782-44-7	
Turbidity	0.10	NTU			1		11/07/18 10:38		
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	11/12/18 10:18	11/13/18 20:08	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	11/12/18 10:18	11/13/18 20:08	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	15.4	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 16:05	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 16:05	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 16:05	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 16:05	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 16:05	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 16:05	7440-50-8	
Iron	9960	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 16:05	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 16:05	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 16:05	7440-22-4	
Sodium	6.3	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 16:05	7440-23-5	
Vanadium	8.1 I	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 16:05	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 16:05	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	11/09/18 03:48	11/10/18 14:48	7440-36-0	
Arsenic	30.7	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:48	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:48	7439-92-1	
Selenium	4.1	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:07	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:28	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 15:44	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:44	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 15:44	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 15:44	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 15:44	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:44	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:44	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 15:44	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-27	Lab ID: 35429268003	Collected: 11/07/18 10:38	Received: 11/07/18 18:30	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		11/16/18 15:44	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 15:44	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 15:44	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 15:44	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 15:44	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:44	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 15:44	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 15:44	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:44	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 15:44	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 15:44	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 15:44	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 15:44	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 15:44	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 15:44	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 15:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/16/18 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		11/16/18 15:44	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/16/18 15:44	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	314	mg/L	5.0	5.0	1		11/09/18 14:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	9.9	mg/L	5.0	2.5	1		11/08/18 18:58	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-27	Lab ID: 35429268003	Collected: 11/07/18 10:38	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.3	mg/L	0.050	0.035	1		11/14/18 09:41	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		11/08/18 10:23	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Sample: GW-3	Lab ID: 35429268004	Collected: 11/07/18 11:34	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.60	Std. Units			1		11/07/18 11:34		
Field Temperature	27.4	deg C			1		11/07/18 11:34		
Field Specific Conductance	633	umhos/cm			1		11/07/18 11:34		
Oxygen, Dissolved	0.58	mg/L			1		11/07/18 11:34	7782-44-7	
Turbidity	0.66	NTU			1		11/07/18 11:34		
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	11/12/18 10:18	11/13/18 20:23	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	11/12/18 10:18	11/13/18 20:23	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	16.2	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 16:08	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 16:08	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 16:08	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 16:08	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 16:08	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 16:08	7440-50-8	
Iron	206	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 16:08	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 16:08	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 16:08	7440-22-4	
Sodium	8.8	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 16:08	7440-23-5	
Vanadium	13.3	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 16:08	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 16:08	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	0.83 I	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:49	7440-36-0	
Arsenic	2.7	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:49	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:49	7439-92-1	
Selenium	1.9	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:09	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:35	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 16:08	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:08	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 16:08	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 16:08	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 16:08	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:08	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:08	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 16:08	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-3	Lab ID: 35429268004	Collected: 11/07/18 11:34	Received: 11/07/18 18:30	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		11/16/18 16:08	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 16:08	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 16:08	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 16:08	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 16:08	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:08	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 16:08	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 16:08	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:08	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 16:08	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 16:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:08	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 16:08	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 16:08	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 16:08	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:08	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 16:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/16/18 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		11/16/18 16:08	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 16:08	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	412	mg/L	5.0	5.0	1		11/09/18 14:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	14.6	mg/L	5.0	2.5	1		11/08/18 19:20	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-3	Lab ID: 35429268004	Collected: 11/07/18 11:34	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.19	mg/L	0.050	0.035	1		11/14/18 09:50	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		11/08/18 11:01	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-4 **Lab ID: 35429268005** Collected: 11/07/18 12:32 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.60	Std. Units			1		11/07/18 12:32		
Field Temperature	27.2	deg C			1		11/07/18 12:32		
Field Specific Conductance	428.3	umhos/cm			1		11/07/18 12:32		
Oxygen, Dissolved	0.26	mg/L			1		11/07/18 12:32	7782-44-7	
Turbidity	0.01	NTU			1		11/07/18 12:32		
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	11/12/18 10:18	11/13/18 20:53	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0095	0.0072	1	11/12/18 10:18	11/13/18 20:53	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	14.7	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 16:11	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 16:11	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 16:11	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 16:11	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 16:11	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 16:11	7440-50-8	
Iron	279	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 16:11	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 16:11	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 16:11	7440-22-4	
Sodium	4.3	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 16:11	7440-23-5	
Vanadium	20.0	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 16:11	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 16:11	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	0.72 I	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:50	7440-36-0	
Arsenic	1.3	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:50	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:50	7439-92-1	
Selenium	0.98 I	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:11	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:39	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 16:33	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:33	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 16:33	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 16:33	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 16:33	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:33	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:33	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 16:33	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-4	Lab ID: 35429268005	Collected: 11/07/18 12:32	Received: 11/07/18 18:30	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		11/16/18 16:33	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 16:33	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 16:33	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 16:33	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 16:33	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:33	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 16:33	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 16:33	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:33	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 16:33	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 16:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:33	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 16:33	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 16:33	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 16:33	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:33	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 16:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/16/18 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/16/18 16:33	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 16:33	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	291	mg/L	5.0	5.0	1		11/09/18 15:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	8.5	mg/L	5.0	2.5	1		11/08/18 19:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-4	Lab ID: 35429268005	Collected: 11/07/18 12:32	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.40	mg/L	0.050	0.035	1		11/14/18 09:56	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		11/08/18 11:02	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-5 Lab ID: **35429268006** Collected: 11/07/18 13:26 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.53	Std. Units			1		11/07/18 13:26		
Field Temperature	28.0	deg C			1		11/07/18 13:26		
Field Specific Conductance	882	umhos/cm			1		11/07/18 13:26		
Oxygen, Dissolved	0.26	mg/L			1		11/07/18 13:26	7782-44-7	
Turbidity	7.71	NTU			1		11/07/18 13:26		
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	11/12/18 10:18	11/13/18 21:07	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/12/18 10:18	11/13/18 21:07	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	22.0	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 16:58	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 16:58	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 16:58	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 16:58	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 16:58	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 16:58	7440-50-8	
Iron	16400	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 16:58	7439-89-6	
Nickel	2.1 I	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 16:58	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 16:58	7440-22-4	
Sodium	20.2	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 16:58	7440-23-5	
Vanadium	12.8	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 16:58	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 16:58	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	11/09/18 03:48	11/10/18 14:51	7440-36-0	
Arsenic	10.5	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:51	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:51	7439-92-1	
Selenium	2.5	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:19	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:41	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 16:57	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:57	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 16:57	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 16:57	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 16:57	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:57	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:57	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 16:57	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-5	Lab ID: 35429268006	Collected: 11/07/18 13:26	Received: 11/07/18 18:30	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		11/16/18 16:57	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 16:57	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 16:57	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 16:57	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 16:57	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:57	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 16:57	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 16:57	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:57	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 16:57	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 16:57	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 16:57	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 16:57	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 16:57	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 16:57	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 16:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/16/18 16:57	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		11/16/18 16:57	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 16:57	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	547	mg/L	5.0	5.0	1		11/12/18 14:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	25.0	mg/L	10.0	5.0	2		11/08/18 20:48	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-5	Lab ID: 35429268006	Collected: 11/07/18 13:26	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.0	mg/L	0.050	0.035	1		11/14/18 09:58	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.11	mg/L	0.050	0.025	1		11/08/18 11:03	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-6 Lab ID: **35429268007** Collected: 11/07/18 14:16 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.80	Std. Units			1		11/07/18 14:16		
Field Temperature	27.7	deg C			1		11/07/18 14:16		
Field Specific Conductance	919	umhos/cm			1		11/07/18 14:16		
Oxygen, Dissolved	0.25	mg/L			1		11/07/18 14:16	7782-44-7	
Turbidity	0.53	NTU			1		11/07/18 14:16		
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	11/12/18 10:18	11/13/18 21:22	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/12/18 10:18	11/13/18 21:22	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	19.3	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:01	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:01	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:01	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:01	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:01	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:01	7440-50-8	
Iron	666	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:01	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:01	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:01	7440-22-4	
Sodium	4.6	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:01	7440-23-5	
Vanadium	12.5	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:01	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:01	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	1.1	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:55	7440-36-0	
Arsenic	5.5	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:55	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:55	7439-92-1	
Selenium	1.4	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:21	7782-49-2	
Thallium	0.56 I	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:43	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 17:22	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:22	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 17:22	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 17:22	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 17:22	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:22	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:22	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 17:22	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-6	Lab ID: 35429268007	Collected: 11/07/18 14:16	Received: 11/07/18 18:30	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		11/16/18 17:22	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 17:22	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 17:22	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 17:22	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 17:22	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:22	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 17:22	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 17:22	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:22	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 17:22	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:22	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 17:22	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 17:22	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 17:22	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:22	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 17:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/16/18 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/16/18 17:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 17:22	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	611	mg/L	5.0	5.0	1		11/12/18 14:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	4.6 I	mg/L	5.0	2.5	1		11/11/18 16:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-6	Lab ID: 35429268007	Collected: 11/07/18 14:16	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.2	mg/L	0.050	0.035	1		11/14/18 09:59	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.030 I	mg/L	0.050	0.025	1		11/08/18 11:05	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: EQ Blank 1 **Lab ID: 35429268008** Collected: 11/07/18 14:40 Received: 11/07/18 18:30 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	11/12/18 10:18	11/13/18 21:37	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 21:37	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	0.84 U	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:04	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:04	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:04	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:04	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:04	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:04	7440-50-8	
Iron	12.2 I	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:04	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:04	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:04	7440-22-4	
Sodium	0.27 U	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:04	7440-23-5	
Vanadium	1.0 U	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:04	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:04	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	11/09/18 03:48	11/10/18 14:57	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:57	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:57	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:23	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	33.6	ug/L	20.0	10.0	1		11/16/18 17:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:46	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 17:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 17:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 17:46	74-83-9	
2-Butanone (MEK)	36.4	ug/L	10.0	5.0	1		11/16/18 17:46	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:46	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 17:46	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 17:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 17:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 17:46	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 17:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	95-50-1	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: EQ Blank 1	Lab ID: 35429268008	Collected: 11/07/18 14:40	Received: 11/07/18 18:30	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		11/16/18 17:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 17:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 17:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:46	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 17:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 17:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 17:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/16/18 17:46	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 17:46	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 17:46	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 17:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/16/18 17:46	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		11/16/18 17:46	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		11/16/18 17:46	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		11/12/18 14:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	2.5 U	mg/L	5.0	2.5	1		11/08/18 11:58	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		11/14/18 10:01	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		11/08/18 11:08	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-7 Lab ID: **35429268009** Collected: 11/07/18 15:17 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.78	Std. Units			1		11/07/18 15:17		
Field Temperature	28.0	deg C			1		11/07/18 15:17		
Field Specific Conductance	464.2	umhos/cm			1		11/07/18 15:17		
Oxygen, Dissolved	0.22	mg/L			1		11/07/18 15:17	7782-44-7	
Turbidity	2.65	NTU			1		11/07/18 15:17		
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	11/12/18 10:18	11/13/18 21:51	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/12/18 10:18	11/13/18 21:51	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	7.7 I	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:07	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:07	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:07	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:07	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:07	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:07	7440-50-8	
Iron	1490	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:07	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:07	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:07	7440-22-4	
Sodium	15.0	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:07	7440-23-5	
Vanadium	5.5 I	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:07	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:07	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	11/09/18 03:48	11/10/18 14:58	7440-36-0	
Arsenic	9.5	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:58	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:58	7439-92-1	
Selenium	2.5	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:25	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:48	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 18:11	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:11	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 18:11	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 18:11	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 18:11	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:11	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:11	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 18:11	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-7	Lab ID: 35429268009	Collected: 11/07/18 15:17	Received: 11/07/18 18:30	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		11/16/18 18:11	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 18:11	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 18:11	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 18:11	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 18:11	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:11	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 18:11	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 18:11	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:11	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 18:11	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 18:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:11	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 18:11	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 18:11	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 18:11	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:11	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 18:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/16/18 18:11	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		11/16/18 18:11	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 18:11	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	284	mg/L	5.0	5.0	1		11/12/18 14:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	15.1	mg/L	5.0	2.5	1		11/08/18 21:32	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-7	Lab ID: 35429268009	Collected: 11/07/18 15:17	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.66	mg/L	0.050	0.035	1		11/14/18 10:03	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.026 I	mg/L	0.050	0.025	1		11/08/18 11:10	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-7 Dup Lab ID: **35429268010** Collected: 11/07/18 15:17 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.78	Std. Units			1		11/07/18 15:17		
Field Temperature	28.0	deg C			1		11/07/18 15:17		
Field Specific Conductance	464.2	umhos/cm			1		11/07/18 15:17		
Oxygen, Dissolved	0.22	mg/L			1		11/07/18 15:17	7782-44-7	
Turbidity	2.65	NTU			1		11/07/18 15:17		
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	11/12/18 10:18	11/13/18 22:36	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	11/12/18 10:18	11/13/18 22:36	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	7.7 I	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:10	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:10	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:10	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:10	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:10	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:10	7440-50-8	
Iron	1360	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:10	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:10	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:10	7440-22-4	
Sodium	15.9	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:10	7440-23-5	
Vanadium	5.2 I	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:10	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:10	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	11/09/18 03:48	11/10/18 14:59	7440-36-0	
Arsenic	9.4	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:59	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:59	7439-92-1	
Selenium	2.1	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:27	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 14:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:54	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 18:35	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:35	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 18:35	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 18:35	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 18:35	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:35	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:35	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 18:35	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-7 Dup	Lab ID: 35429268010	Collected: 11/07/18 15:17	Received: 11/07/18 18:30	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		11/16/18 18:35	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 18:35	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 18:35	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 18:35	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 18:35	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:35	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 18:35	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 18:35	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:35	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 18:35	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 18:35	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 18:35	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 18:35	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 18:35	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 18:35	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 18:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/16/18 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		11/16/18 18:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 18:35	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	295	mg/L	5.0	5.0	1		11/12/18 14:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	17.7	mg/L	5.0	2.5	1		11/08/18 21:54	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-7 Dup	Lab ID: 35429268010	Collected: 11/07/18 15:17	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.67	mg/L	0.050	0.035	1		11/14/18 10:05	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		11/08/18 11:11	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-8 Lab ID: 35429268011 Collected: 11/07/18 16:17 Received: 11/07/18 18:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.99	Std. Units			1		11/07/18 16:17		
Field Temperature	28.1	deg C			1		11/07/18 16:17		
Field Specific Conductance	435.6	umhos/cm			1		11/07/18 16:17		
Oxygen, Dissolved	0.37	mg/L			1		11/07/18 16:17	7782-44-7	
Turbidity	3.24	NTU			1		11/07/18 16:17		
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	11/13/18 17:45	11/14/18 04:44	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/13/18 17:45	11/14/18 04:44	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	8.3 I	ug/L	10.0	0.84	1	11/09/18 03:46	11/09/18 17:13	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/09/18 03:46	11/09/18 17:13	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/09/18 03:46	11/09/18 17:13	7440-43-9	
Chromium	2.0 I	ug/L	5.0	1.7	1	11/09/18 03:46	11/09/18 17:13	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/09/18 03:46	11/09/18 17:13	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/09/18 03:46	11/09/18 17:13	7440-50-8	
Iron	46.5	ug/L	40.0	9.2	1	11/09/18 03:46	11/09/18 17:13	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/09/18 03:46	11/09/18 17:13	7440-02-0	
Silver	1.0 U	ug/L	5.0	1.0	1	11/09/18 03:46	11/09/18 17:13	7440-22-4	
Sodium	16.5	mg/L	2.0	0.27	1	11/09/18 03:46	11/09/18 17:13	7440-23-5	
Vanadium	2.6 I	ug/L	10.0	1.0	1	11/09/18 03:46	11/09/18 17:13	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/09/18 03:46	11/09/18 17:13	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	11/09/18 03:48	11/10/18 15:01	7440-36-0	
Arsenic	5.8	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 15:01	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 15:01	7439-92-1	
Selenium	0.83 I	ug/L	1.0	0.50	1	11/09/18 03:48	11/09/18 15:29	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/09/18 03:48	11/10/18 15:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/15/18 12:06	11/20/18 17:56	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/16/18 19:00	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/16/18 19:00	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/16/18 19:00	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/16/18 19:00	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/16/18 19:00	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 19:00	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/16/18 19:00	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/16/18 19:00	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-8	Lab ID: 35429268011	Collected: 11/07/18 16:17	Received: 11/07/18 18:30	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		11/16/18 19:00	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 19:00	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/16/18 19:00	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/16/18 19:00	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/16/18 19:00	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/16/18 19:00	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 19:00	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/16/18 19:00	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/16/18 19:00	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/16/18 19:00	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/16/18 19:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/16/18 19:00	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/16/18 19:00	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/16/18 19:00	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/16/18 19:00	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/16/18 19:00	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/16/18 19:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/16/18 19:00	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/16/18 19:00	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/16/18 19:00	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	285	mg/L	5.0	5.0	1		11/12/18 14:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	18.5	mg/L	5.0	2.5	1		11/08/18 22:16	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-8	Lab ID: 35429268011	Collected: 11/07/18 16:17	Received: 11/07/18 18:30	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.92	mg/L	0.050	0.035	1		11/14/18 10:07	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		11/08/18 11:12	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Trip Blank 1 Lab ID: 35429268012 Collected: 11/07/18 08:29 Received: 11/07/18 18:30 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	11/13/18 17:45	11/14/18 04:58	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0099	0.0074	1	11/13/18 17:45	11/14/18 04:58	106-93-4	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-9 Lab ID: **35429580001** Collected: 11/08/18 07:52 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.62	Std. Units			1		11/08/18 07:52		
Field Temperature	27.3	deg C			1		11/08/18 07:52		
Field Specific Conductance	517	umhos/cm			1		11/08/18 07:52		
Oxygen, Dissolved	0.45	mg/L			1		11/08/18 07:52	7782-44-7	
Turbidity	0.02	NTU			1		11/08/18 07:52		
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	11/15/18 00:08	11/15/18 10:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/15/18 00:08	11/15/18 10:18	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	11.0	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:10	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:10	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:10	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:10	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:10	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:10	7440-50-8	
Iron	509	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:10	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:10	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:10	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:10	7440-22-4	
Sodium	5.3	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:10	7440-23-5	
Vanadium	6.9 I	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:10	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:10	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	11/17/18 04:25	11/19/18 15:48	7440-36-0	
Arsenic	5.1	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:48	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:48	7439-92-1	
Selenium	1.5	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:48	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:29	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/17/18 16:52	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/17/18 16:52	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/17/18 16:52	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/17/18 16:52	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/17/18 16:52	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 16:52	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/17/18 16:52	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-9	Lab ID: 35429580001	Collected: 11/08/18 07:52	Received: 11/08/18 17:45	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		11/17/18 16:52	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 16:52	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/17/18 16:52	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/17/18 16:52	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/17/18 16:52	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/17/18 16:52	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 16:52	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 16:52	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/17/18 16:52	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 16:52	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/17/18 16:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 16:52	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/17/18 16:52	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/17/18 16:52	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/17/18 16:52	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/17/18 16:52	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/17/18 16:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/17/18 16:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/17/18 16:52	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/17/18 16:52	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	277	mg/L	5.0	5.0	1		11/12/18 14:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	5.6	mg/L	5.0	2.5	1		11/16/18 21:13	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-9	Lab ID: 35429580001	Collected: 11/08/18 07:52	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.60	mg/L	0.050	0.035	1		11/12/18 12:23	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		11/09/18 09:07	14797-55-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-10 Lab ID: **35429580002** Collected: 11/08/18 08:36 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.73	Std. Units			1		11/08/18 08:36		
Field Temperature	25.9	deg C			1		11/08/18 08:36		
Field Specific Conductance	614	umhos/cm			1		11/08/18 08:36		
Oxygen, Dissolved	0.84	mg/L			1		11/08/18 08:36	7782-44-7	
Turbidity	10.5	NTU			1		11/08/18 08:36		
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	11/15/18 00:08	11/15/18 10:33	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 00:08	11/15/18 10:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	19.9	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:13	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:13	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:13	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:13	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:13	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:13	7440-50-8	
Iron	3210	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:13	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:13	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:13	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:13	7440-22-4	
Sodium	7.7	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:13	7440-23-5	
Vanadium	80.4	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:13	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	3.8	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:49	7440-36-0	
Arsenic	10.5	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:49	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:49	7439-92-1	
Selenium	4.0	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:49	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:31	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/17/18 17:16	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:16	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/17/18 17:16	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/17/18 17:16	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/17/18 17:16	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:16	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:16	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-10	Lab ID: 35429580002	Collected: 11/08/18 08:36	Received: 11/08/18 17:45	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		11/17/18 17:16	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 17:16	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/17/18 17:16	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/17/18 17:16	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/17/18 17:16	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:16	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 17:16	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 17:16	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:16	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 17:16	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/17/18 17:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:16	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/17/18 17:16	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/17/18 17:16	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/17/18 17:16	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:16	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/17/18 17:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/17/18 17:16	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/17/18 17:16	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		11/17/18 17:16	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	317	mg/L	5.0	5.0	1		11/12/18 14:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	9.2	mg/L	5.0	2.5	1		11/16/18 21:37	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-10	Lab ID: 35429580002	Collected: 11/08/18 08:36	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	4.8	mg/L	0.050	0.035	1		11/12/18 12:25	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		11/09/18 09:09	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-11 Lab ID: **35429580003** Collected: 11/08/18 09:47 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.87	Std. Units			1		11/08/18 09:47		
Field Temperature	25.9	deg C			1		11/08/18 09:47		
Field Specific Conductance	528	umhos/cm			1		11/08/18 09:47		
Oxygen, Dissolved	0.36	mg/L			1		11/08/18 09:47	7782-44-7	
Turbidity	2.51	NTU			1		11/08/18 09:47		
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	11/15/18 00:08	11/15/18 10:48	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/15/18 00:08	11/15/18 10:48	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	11.4	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:15	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:15	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:15	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:15	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:15	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:15	7440-50-8	
Iron	195	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:15	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:15	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:15	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:15	7440-22-4	
Sodium	21.8	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:15	7440-23-5	
Vanadium	1.4 I	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:15	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:15	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	11/17/18 04:25	11/19/18 15:51	7440-36-0	
Arsenic	1.5	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:51	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:51	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:51	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:34	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/17/18 17:40	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:40	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/17/18 17:40	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/17/18 17:40	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/17/18 17:40	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:40	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:40	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-11	Lab ID: 35429580003	Collected: 11/08/18 09:47	Received: 11/08/18 17:45	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		11/17/18 17:40	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 17:40	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/17/18 17:40	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/17/18 17:40	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/17/18 17:40	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:40	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 17:40	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 17:40	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:40	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 17:40	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/17/18 17:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 17:40	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/17/18 17:40	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/17/18 17:40	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/17/18 17:40	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/17/18 17:40	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/17/18 17:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/17/18 17:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/17/18 17:40	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/17/18 17:40	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	286	mg/L	5.0	5.0	1		11/12/18 14:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	20.6	mg/L	5.0	2.5	1		11/16/18 22:47	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-11	Lab ID: 35429580003	Collected: 11/08/18 09:47	Received: 11/08/18 17:45	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		11/12/18 12:27	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		11/09/18 09:51	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-12 Lab ID: **35429580004** Collected: 11/08/18 10:24 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.70	Std. Units			1		11/08/18 10:24		
Field Temperature	27.2	deg C			1		11/08/18 10:24		
Field Specific Conductance	731	umhos/cm			1		11/08/18 10:24		
Oxygen, Dissolved	0.42	mg/L			1		11/08/18 10:24	7782-44-7	
Turbidity	0.02	NTU			1		11/08/18 10:24		
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	11/15/18 00:08	11/15/18 11:02	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/15/18 00:08	11/15/18 11:02	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	37.9	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:18	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:18	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:18	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:18	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:18	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:18	7440-50-8	
Iron	549	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:18	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:18	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:18	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:18	7440-22-4	
Sodium	4.4	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:18	7440-23-5	
Vanadium	37.1	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:18	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:18	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	2.6	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:52	7440-36-0	
Arsenic	3.5	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:52	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:52	7439-92-1	
Selenium	3.7	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:52	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:36	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/17/18 18:04	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/17/18 18:04	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/17/18 18:04	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/17/18 18:04	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/17/18 18:04	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 18:04	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/17/18 18:04	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-12	Lab ID: 35429580004	Collected: 11/08/18 10:24	Received: 11/08/18 17:45	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		11/17/18 18:04	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 18:04	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/17/18 18:04	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/17/18 18:04	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/17/18 18:04	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/17/18 18:04	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 18:04	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/17/18 18:04	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/17/18 18:04	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/17/18 18:04	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/17/18 18:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/17/18 18:04	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/17/18 18:04	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/17/18 18:04	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/17/18 18:04	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/17/18 18:04	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/17/18 18:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/17/18 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/17/18 18:04	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/17/18 18:04	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	426	mg/L	5.0	5.0	1		11/12/18 14:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	4.8 I	mg/L	5.0	2.5	1		11/16/18 23:57	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-12	Lab ID: 35429580004	Collected: 11/08/18 10:24	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.27	mg/L	0.050	0.035	1		11/12/18 12:29	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.064	mg/L	0.050	0.025	1		11/09/18 09:52	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-13 Lab ID: **35429580005** Collected: 11/08/18 11:09 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.63	Std. Units			1		11/08/18 11:09		
Field Temperature	27.9	deg C			1		11/08/18 11:09		
Field Specific Conductance	1281	umhos/cm			1		11/08/18 11:09		
Oxygen, Dissolved	0.47	mg/L			1		11/08/18 11:09	7782-44-7	
Turbidity	0.02	NTU			1		11/08/18 11:09		
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	11/15/18 00:08	11/15/18 11:33	96-12-8	
1,2-Dibromoethane (EDB)	0.0071 U	ug/L	0.0095	0.0071	1	11/15/18 00:08	11/15/18 11:33	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	31.1	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:21	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:21	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:21	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:21	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:21	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:21	7440-50-8	
Iron	7730	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:21	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:21	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:21	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:21	7440-22-4	
Sodium	15.2	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:21	7440-23-5	
Vanadium	8.1 I	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:21	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:21	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	11/17/18 04:25	11/19/18 15:54	7440-36-0	
Arsenic	13.7	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:54	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:54	7439-92-1	
Selenium	3.4	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:54	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 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	11/21/18 13:08	11/26/18 18:38	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 13:17	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:17	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 13:17	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 13:17	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 13:17	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:17	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:17	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-13	Lab ID: 35429580005	Collected: 11/08/18 11:09	Received: 11/08/18 17:45	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		11/19/18 13:17	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 13:17	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 13:17	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 13:17	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 13:17	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:17	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 13:17	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 13:17	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:17	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 13:17	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 13:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:17	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 13:17	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 13:17	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 13:17	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:17	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 13:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/19/18 13:17	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		11/19/18 13:17	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/19/18 13:17	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	700	mg/L	10.0	10.0	1		11/12/18 14:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	11.0	mg/L	5.0	2.5	1		11/17/18 08:26	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-13	Lab ID: 35429580005	Collected: 11/08/18 11:09	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	4.8	mg/L	0.050	0.035	1		11/12/18 12:31	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		11/09/18 09:53	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-14 Lab ID: **35429580006** Collected: 11/08/18 11:54 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.68	Std. Units			1		11/08/18 11:54		
Field Temperature	26.7	deg C			1		11/08/18 11:54		
Field Specific Conductance	1046	umhos/cm			1		11/08/18 11:54		
Oxygen, Dissolved	0.66	mg/L			1		11/08/18 11:54	7782-44-7	
Turbidity	9.5	NTU			1		11/08/18 11:54		
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	11/15/18 00:08	11/15/18 11:48	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 00:08	11/15/18 11:48	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	36.4	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:24	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:24	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:24	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:24	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:24	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:24	7440-50-8	
Iron	3600	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:24	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:24	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:24	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:24	7440-22-4	
Sodium	12.8	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:24	7440-23-5	
Vanadium	2.0 I	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:24	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:24	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	11/17/18 04:25	11/19/18 15:56	7440-36-0	
Arsenic	2.8	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:56	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:56	7439-92-1	
Selenium	1.8	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:56	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 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	11/21/18 13:08	11/26/18 18:40	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 13:42	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:42	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 13:42	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 13:42	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 13:42	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:42	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:42	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-14	Lab ID: 35429580006	Collected: 11/08/18 11:54	Received: 11/08/18 17:45	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		11/19/18 13:42	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 13:42	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 13:42	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 13:42	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 13:42	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:42	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 13:42	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 13:42	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:42	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 13:42	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 13:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 13:42	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 13:42	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 13:42	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 13:42	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 13:42	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 13:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/19/18 13:42	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/19/18 13:42	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/18 13:42	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	629	mg/L	5.0	5.0	1		11/12/18 14:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	12.8	mg/L	10.0	5.0	2		11/17/18 00:44	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-14	Lab ID: 35429580006	Collected: 11/08/18 11:54	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.35	mg/L	0.050	0.035	1		11/12/18 12:33	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.070	mg/L	0.050	0.025	1		11/09/18 09:55	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: BGW-1 Lab ID: **35429580007** Collected: 11/08/18 12:44 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.68	Std. Units			1		11/08/18 12:44		
Field Temperature	28.8	deg C			1		11/08/18 12:44		
Field Specific Conductance	488	umhos/cm			1		11/08/18 12:44		
Oxygen, Dissolved	0.95	mg/L			1		11/08/18 12:44	7782-44-7	
Turbidity	3.20	NTU			1		11/08/18 12:44		
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	11/15/18 00:08	11/15/18 12:03	96-12-8	
1,2-Dibromoethane (EDB)	0.0071 U	ug/L	0.0095	0.0071	1	11/15/18 00:08	11/15/18 12:03	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	27.7	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:27	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:27	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:27	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:27	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:27	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:27	7440-50-8	
Iron	7950	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:27	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:27	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:27	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:27	7440-22-4	
Sodium	19.4	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:27	7440-23-5	
Vanadium	7.0 I	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:27	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:27	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	11/17/18 04:25	11/19/18 15:57	7440-36-0	
Arsenic	5.4	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:57	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:57	7439-92-1	
Selenium	0.78 I	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:57	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:42	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 14:06	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:06	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 14:06	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 14:06	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 14:06	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:06	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:06	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: BGW-1	Lab ID: 35429580007	Collected: 11/08/18 12:44	Received: 11/08/18 17:45	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		11/19/18 14:06	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 14:06	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 14:06	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 14:06	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 14:06	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:06	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 14:06	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 14:06	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:06	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 14:06	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 14:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:06	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 14:06	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 14:06	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 14:06	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:06	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 14:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/19/18 14:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		11/19/18 14:06	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/18 14:06	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	256	mg/L	5.0	5.0	1		11/12/18 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	31.0	mg/L	5.0	2.5	1		11/17/18 01:07	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: BGW-1	Lab ID: 35429580007	Collected: 11/08/18 12:44	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.4	mg/L	0.050	0.035	1		11/12/18 12:34	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.029 I	mg/L	0.050	0.025	1		11/09/18 09:56	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-15 Lab ID: **35429580008** Collected: 11/08/18 13:20 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.66	Std. Units			1		11/08/18 13:20		
Field Temperature	27.8	deg C			1		11/08/18 13:20		
Field Specific Conductance	984	umhos/cm			1		11/08/18 13:20		
Oxygen, Dissolved	0.25	mg/L			1		11/08/18 13:20	7782-44-7	
Turbidity	1.03	NTU			1		11/08/18 13:20		
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	11/15/18 00:08	11/15/18 12:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/15/18 00:08	11/15/18 12:18	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	60.1	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:30	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:30	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:30	7440-43-9	
Chromium	5.4	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:30	7440-47-3	
Cobalt	1.2 I	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:30	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:30	7440-50-8	
Iron	22200	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:30	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:30	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:30	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:30	7440-22-4	
Sodium	50.8	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:30	7440-23-5	
Vanadium	36.1	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:30	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:30	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	11/17/18 04:25	11/19/18 15:59	7440-36-0	
Arsenic	7.0	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:59	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:59	7439-92-1	
Selenium	2.0	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 15:59	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 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	11/21/18 13:08	11/26/18 18:44	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 14:31	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:31	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 14:31	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 14:31	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 14:31	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:31	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:31	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-15	Lab ID: 35429580008	Collected: 11/08/18 13:20	Received: 11/08/18 17:45	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		11/19/18 14:31	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 14:31	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 14:31	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 14:31	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 14:31	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:31	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 14:31	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 14:31	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:31	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 14:31	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 14:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:31	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 14:31	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 14:31	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 14:31	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:31	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 14:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/19/18 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/19/18 14:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		11/19/18 14:31	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	602	mg/L	5.0	5.0	1		11/12/18 14:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	75.7	mg/L	10.0	5.0	2		11/17/18 01:31	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-15	Lab ID: 35429580008	Collected: 11/08/18 13:20	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.94	mg/L	0.050	0.035	1		11/12/18 12:40	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.027 I	mg/L	0.050	0.025	1		11/09/18 09:57	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-16 Lab ID: **35429580009** Collected: 11/08/18 14:00 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.04	Std. Units			1		11/27/18 17:07		
Field Temperature	27.1	deg C			1		11/27/18 17:07		
Field Specific Conductance	676	umhos/cm			1		11/27/18 17:07		
Oxygen, Dissolved	0.31	mg/L			1		11/27/18 17:07	7782-44-7	
Turbidity	1.26	NTU			1		11/27/18 17:07		
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	11/15/18 00:08	11/15/18 12:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 00:08	11/15/18 12:32	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	19.6	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:32	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:32	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:32	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:32	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:32	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:32	7440-50-8	
Iron	58.2	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:32	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:32	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:32	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:32	7440-22-4	
Sodium	59.8	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:32	7440-23-5	
Vanadium	6.6 I	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:32	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:32	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	11/17/18 04:25	11/19/18 16:01	7440-36-0	
Arsenic	1.4	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:01	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:01	7439-92-1	
Selenium	0.81 I	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:01	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/26/18 18:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 14:56	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:56	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 14:56	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 14:56	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 14:56	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:56	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:56	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-16	Lab ID: 35429580009	Collected: 11/08/18 14:00	Received: 11/08/18 17:45	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		11/19/18 14:56	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 14:56	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 14:56	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 14:56	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 14:56	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:56	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 14:56	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 14:56	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:56	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 14:56	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 14:56	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 14:56	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 14:56	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 14:56	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 14:56	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 14:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/19/18 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/19/18 14:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/18 14:56	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	350	mg/L	5.0	5.0	1		11/13/18 15:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	80.2	mg/L	5.0	2.5	1		11/17/18 01:54	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-16	Lab ID: 35429580009	Collected: 11/08/18 14:00	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.89	mg/L	0.050	0.035	1		11/12/18 12:42	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		11/09/18 10:01	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-17 Lab ID: **35429580010** Collected: 11/08/18 14:43 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	5.98	Std. Units			1		11/08/18 14:43		
Field Temperature	26.9	deg C			1		11/08/18 14:43		
Field Specific Conductance	131.6	umhos/cm			1		11/08/18 14:43		
Oxygen, Dissolved	0.30	mg/L			1		11/08/18 14:43	7782-44-7	
Turbidity	7.8	NTU			1		11/08/18 14:43		
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	11/15/18 00:08	11/15/18 12:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0071 U	ug/L	0.0095	0.0071	1	11/15/18 00:08	11/15/18 12:47	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	5.5 I	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:41	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:41	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:41	7440-43-9	
Chromium	6.8 ug/L		5.0	1.7	1	11/17/18 04:20	11/17/18 22:41	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:41	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:41	7440-50-8	
Iron	6180 ug/L		40.0	9.2	1	11/17/18 04:20	11/17/18 22:41	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:41	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:41	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:41	7440-22-4	
Sodium	2.3 mg/L		2.0	0.27	1	11/17/18 04:20	11/17/18 22:41	7440-23-5	
Vanadium	28.0 ug/L		10.0	1.0	1	11/17/18 04:20	11/17/18 22:41	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:41	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	11/17/18 04:25	11/19/18 16:02	7440-36-0	
Arsenic	1.7 ug/L		1.0	0.50	1	11/17/18 04:25	11/19/18 16:02	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:02	7439-92-1	
Selenium	1.6 ug/L		1.0	0.50	1	11/17/18 04:25	11/19/18 16:02	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 15:20	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:20	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 15:20	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 15:20	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 15:20	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:20	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:20	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-17	Lab ID: 35429580010	Collected: 11/08/18 14:43	Received: 11/08/18 17:45	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		11/19/18 15:20	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 15:20	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 15:20	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 15:20	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 15:20	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:20	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 15:20	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 15:20	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:20	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 15:20	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 15:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:20	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 15:20	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 15:20	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 15:20	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:20	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 15:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/19/18 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		11/19/18 15:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/19/18 15:20	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	77.0	mg/L	5.0	5.0	1		11/13/18 15:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	4.0 I	mg/L	5.0	2.5	1		11/17/18 02:18	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-17	Lab ID: 35429580010	Collected: 11/08/18 14:43	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.98	mg/L	0.050	0.035	1		11/12/18 12:44	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		11/09/18 10:06	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-18 Lab ID: 35429580011 Collected: 11/08/18 15:34 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.11	Std. Units			1		11/08/18 15:34		
Field Temperature	27.8	deg C			1		11/08/18 15:34		
Field Specific Conductance	567	umhos/cm			1		11/08/18 15:34		
Oxygen, Dissolved	0.35	mg/L			1		11/08/18 15:34	7782-44-7	
Turbidity	13.2	NTU			1		11/08/18 15:34		
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	11/15/18 00:08	11/15/18 13:03	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 00:08	11/15/18 13:03	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	35.0	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:44	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:44	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:44	7440-43-9	
Chromium	2.3 I	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:44	7440-47-3	
Cobalt	1.4 I	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:44	7440-48-4	
Copper	3.3 I	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:44	7440-50-8	
Iron	12600	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:44	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:44	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:44	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:44	7440-22-4	
Sodium	12.1	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:44	7440-23-5	
Vanadium	13.8	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:44	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:44	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	11/17/18 04:25	11/19/18 17:22	7440-36-0	
Arsenic	19.7	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:22	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:22	7439-92-1	
Selenium	4.0	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:22	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:17	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 15:45	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:45	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 15:45	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 15:45	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 15:45	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:45	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:45	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-18	Lab ID: 35429580011	Collected: 11/08/18 15:34	Received: 11/08/18 17:45	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		11/19/18 15:45	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 15:45	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 15:45	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 15:45	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 15:45	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:45	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 15:45	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 15:45	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:45	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 15:45	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 15:45	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 15:45	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 15:45	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 15:45	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 15:45	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 15:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/19/18 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		11/19/18 15:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/19/18 15:45	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	367	mg/L	5.0	5.0	1		11/13/18 15:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	15.3	mg/L	5.0	2.5	1		11/17/18 02:41	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-18	Lab ID: 35429580011	Collected: 11/08/18 15:34	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.3	mg/L	0.050	0.035	1		11/12/18 12:45	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.054	mg/L	0.050	0.025	1		11/09/18 10:10	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Equip Blank 2 Lab ID: 35429580012 Collected: 11/08/18 15:00 Received: 11/08/18 17:45 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	0.0060 U	ug/L	0.019	0.0060	1	11/15/18 00:08	11/15/18 13:18	96-12-8	
1,2-Dibromoethane (EDB)	0.0071 U	ug/L	0.0094	0.0071	1	11/15/18 00:08	11/15/18 13:18	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	0.84 U	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:47	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:47	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:47	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:47	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:47	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:47	7440-50-8	
Iron	9.2 U	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:47	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:47	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:47	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:47	7440-22-4	
Sodium	0.27 U	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:47	7440-23-5	
Vanadium	1.0 U	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:47	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:47	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	11/17/18 04:25	11/19/18 16:09	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:09	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:09	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:09	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 16:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:21	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	83.7	ug/L	20.0	10.0	1		11/19/18 11:14	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 11:14	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 11:14	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 11:14	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 11:14	74-83-9	
2-Butanone (MEK)	40.1	ug/L	10.0	5.0	1		11/19/18 11:14	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 11:14	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/19/18 11:14	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 11:14	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 11:14	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 11:14	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 11:14	74-95-3	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Equip Blank 2	Lab ID: 35429580012	Collected: 11/08/18 15:00	Received: 11/08/18 17:45	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		11/19/18 11:14	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 11:14	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 11:14	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 11:14	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 11:14	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 11:14	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 11:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 11:14	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 11:14	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 11:14	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 11:14	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 11:14	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 11:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/19/18 11:14	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		11/19/18 11:14	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/18 11:14	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		11/13/18 15:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	2.5 U	mg/L	5.0	2.5	1		11/17/18 03:05	16887-00-6	
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		11/12/18 12:47	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		11/09/18 10:11	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-15 Dup Lab ID: **35429580013** Collected: 11/08/18 13:20 Received: 11/08/18 17:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.66	Std. Units			1		11/08/18 13:20		
Field Temperature	27.8	deg C			1		11/08/18 13:20		
Field Specific Conductance	984	umhos/cm			1		11/08/18 13:20		
Oxygen, Dissolved	0.25	mg/L			1		11/08/18 13:20	7782-44-7	
Turbidity	1.03	NTU			1		11/08/18 13:20		
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	11/15/18 00:08	11/15/18 13:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/15/18 00:08	11/15/18 13:32	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	60.2	ug/L	10.0	0.84	1	11/17/18 04:20	11/17/18 22:49	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/17/18 04:20	11/17/18 22:49	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/17/18 04:20	11/17/18 22:49	7440-43-9	
Chromium	5.4	ug/L	5.0	1.7	1	11/17/18 04:20	11/17/18 22:49	7440-47-3	
Cobalt	1.1 I	ug/L	10.0	0.96	1	11/17/18 04:20	11/17/18 22:49	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/17/18 04:20	11/17/18 22:49	7440-50-8	
Iron	22400	ug/L	40.0	9.2	1	11/17/18 04:20	11/17/18 22:49	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/17/18 04:20	11/17/18 22:49	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/17/18 04:20	11/17/18 22:49	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/17/18 04:20	11/17/18 22:49	7440-22-4	
Sodium	50.7	mg/L	2.0	0.27	1	11/17/18 04:20	11/17/18 22:49	7440-23-5	
Vanadium	36.4	ug/L	10.0	1.0	1	11/17/18 04:20	11/17/18 22:49	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/17/18 04:20	11/17/18 22:49	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	11/17/18 04:25	11/19/18 17:24	7440-36-0	
Arsenic	7.0	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:24	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:24	7439-92-1	
Selenium	0.92 I	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:24	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/17/18 04:25	11/19/18 17:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 13:08	11/27/18 13:23	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/19/18 16:10	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/19/18 16:10	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/19/18 16:10	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/19/18 16:10	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/19/18 16:10	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 16:10	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/19/18 16:10	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-15 Dup	Lab ID: 35429580013	Collected: 11/08/18 13:20	Received: 11/08/18 17:45	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		11/19/18 16:10	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 16:10	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/19/18 16:10	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/19/18 16:10	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/19/18 16:10	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/19/18 16:10	110-57-6	J(L1)
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 16:10	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/19/18 16:10	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/19/18 16:10	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/19/18 16:10	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/19/18 16:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/19/18 16:10	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/19/18 16:10	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/19/18 16:10	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/19/18 16:10	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/19/18 16:10	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/19/18 16:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/19/18 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/19/18 16:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/19/18 16:10	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	575	mg/L	5.0	5.0	1		11/13/18 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	78.7	mg/L	10.0	5.0	2		11/16/18 13:04	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-15 Dup	Lab ID: 35429580013	Collected: 11/08/18 13:20	Received: 11/08/18 17:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.94	mg/L	0.050	0.035	1		11/12/18 12:49	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.030 I	mg/L	0.050	0.025	1		11/09/18 10:13	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Trip Blank 2 **Lab ID: 35429580014** Collected: 11/08/18 07:52 Received: 11/08/18 17:45 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	11/15/18 00:08	11/15/18 13:48	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0097	0.0072	1	11/15/18 00:08	11/15/18 13:48	106-93-4	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-20 Lab ID: **35429909001** Collected: 11/09/18 10:12 Received: 11/09/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.47	Std. Units			1		11/09/18 10:12		
Field Temperature	27.8	deg C			1		11/09/18 10:12		
Field Specific Conductance	356.6	umhos/cm			1		11/09/18 10:12		
Oxygen, Dissolved	0.51	mg/L			1		11/09/18 10:12	7782-44-7	
Turbidity	1.24	NTU			1		11/09/18 10:12		
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	11/15/18 01:10	11/15/18 17:30	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0097	0.0072	1	11/15/18 01:10	11/15/18 17:30	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	11.7	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:33	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:33	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:33	7440-43-9	
Chromium	3.2 I	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:33	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:33	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:33	7440-50-8	
Iron	2830	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:33	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:33	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:33	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:33	7440-22-4	
Sodium	6.4	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:33	7440-23-5	
Vanadium	6.2 I	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:33	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:33	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	11/24/18 03:03	11/24/18 13:32	7440-36-0	
Arsenic	27.3	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:32	7440-38-2	
Lead	0.56 I	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:32	7439-92-1	
Selenium	3.9	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 15:09	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 14:25	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/18/18 18:34	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:34	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/18/18 18:34	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/18/18 18:34	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/18/18 18:34	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:34	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:34	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-20	Lab ID: 35429909001	Collected: 11/09/18 10:12	Received: 11/09/18 15:45	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		11/18/18 18:34	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 18:34	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/18/18 18:34	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/18/18 18:34	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/18/18 18:34	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:34	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 18:34	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 18:34	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:34	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 18:34	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/18/18 18:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:34	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/18/18 18:34	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/18/18 18:34	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/18/18 18:34	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:34	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/18/18 18:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/18/18 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/18/18 18:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/18/18 18:34	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	267	mg/L	5.0	5.0	1		11/14/18 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	10.9	mg/L	5.0	2.5	1		11/16/18 20:02	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-20	Lab ID: 35429909001	Collected: 11/09/18 10:12	Received: 11/09/18 15:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.5	mg/L	0.25	0.17	5		11/13/18 11:28	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.058	mg/L	0.050	0.025	1		11/10/18 07:10	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-21 Lab ID: **35429909002** Collected: 11/09/18 10:55 Received: 11/09/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	5.92	Std. Units			1		11/09/18 10:55		
Field Temperature	28.1	deg C			1		11/09/18 10:55		
Field Specific Conductance	205.7	umhos/cm			1		11/09/18 10:55		
Oxygen, Dissolved	0.54	mg/L			1		11/09/18 10:55	7782-44-7	
Turbidity	0.05	NTU			1		11/09/18 10:55		
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	11/15/18 01:10	11/15/18 17:45	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 01:10	11/15/18 17:45	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	12.1	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:38	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:38	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:38	7440-43-9	
Chromium	3.0 I	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:38	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:38	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:38	7440-50-8	
Iron	1260	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:38	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:38	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:38	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:38	7440-22-4	
Sodium	3.7	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:38	7440-23-5	
Vanadium	5.1 I	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:38	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:38	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	11/24/18 03:03	11/24/18 13:34	7440-36-0	
Arsenic	5.8	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:34	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:34	7439-92-1	
Selenium	1.0	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 15:11	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 14:32	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/18/18 18:58	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:58	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/18/18 18:58	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/18/18 18:58	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/18/18 18:58	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:58	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:58	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-21	Lab ID: 35429909002	Collected: 11/09/18 10:55	Received: 11/09/18 15:45	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		11/18/18 18:58	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 18:58	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/18/18 18:58	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/18/18 18:58	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/18/18 18:58	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:58	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 18:58	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 18:58	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:58	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 18:58	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/18/18 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 18:58	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/18/18 18:58	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/18/18 18:58	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/18/18 18:58	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/18/18 18:58	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/18/18 18:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/18/18 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/18/18 18:58	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/18/18 18:58	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	173	mg/L	5.0	5.0	1		11/14/18 15:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	9.6	mg/L	5.0	2.5	1		11/16/18 20:24	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-21	Lab ID: 35429909002	Collected: 11/09/18 10:55	Received: 11/09/18 15:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.36	mg/L	0.050	0.035	1		11/13/18 11:34	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		11/10/18 07:11	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-22 Lab ID: **35429909003** Collected: 11/09/18 11:38 Received: 11/09/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	5.92	Std. Units			1		11/09/18 11:38		
Field Temperature	28.1	deg C			1		11/09/18 11:38		
Field Specific Conductance	287.2	umhos/cm			1		11/09/18 11:38		
Oxygen, Dissolved	0.27	mg/L			1		11/09/18 11:38	7782-44-7	
Turbidity	15.4	NTU			1		11/09/18 11:38		
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	11/15/18 01:10	11/15/18 18:00	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 01:10	11/15/18 18:00	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	24.2	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:41	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:41	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:41	7440-43-9	
Chromium	6.0	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:41	7440-47-3	
Cobalt	1.1 I	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:41	7440-48-4	
Copper	2.9 I	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:41	7440-50-8	
Iron	9510	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:41	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:41	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:41	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:41	7440-22-4	
Sodium	4.4	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:41	7440-23-5	
Vanadium	23.0	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:41	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:41	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	11/24/18 03:03	11/24/18 13:36	7440-36-0	
Arsenic	15.8	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:36	7440-38-2	
Lead	1.7	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:36	7439-92-1	
Selenium	2.7	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 15:12	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 14:34	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/18/18 19:22	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:22	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/18/18 19:22	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/18/18 19:22	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/18/18 19:22	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:22	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:22	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-22	Lab ID: 35429909003	Collected: 11/09/18 11:38	Received: 11/09/18 15:45	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		11/18/18 19:22	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 19:22	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/18/18 19:22	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/18/18 19:22	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/18/18 19:22	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:22	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 19:22	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 19:22	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:22	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 19:22	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/18/18 19:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:22	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/18/18 19:22	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/18/18 19:22	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/18/18 19:22	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:22	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/18/18 19:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/18/18 19:22	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/18/18 19:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/18/18 19:22	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	201	mg/L	5.0	5.0	1		11/14/18 15:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	8.1	mg/L	5.0	2.5	1		11/16/18 20:47	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-22	Lab ID: 35429909003	Collected: 11/09/18 11:38	Received: 11/09/18 15:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	2.3	mg/L	0.050	0.035	1		11/13/18 11:40	7664-41-7	
353.2 Nitrogen, NO₂/NO₃ unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	0.064	mg/L	0.050	0.025	1		11/10/18 07:12	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-23 Lab ID: **35429909004** Collected: 11/09/18 12:22 Received: 11/09/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.35	Std. Units			1		11/09/18 12:22		
Field Temperature	28.5	deg C			1		11/09/18 12:22		
Field Specific Conductance	308.7	umhos/cm			1		11/09/18 12:22		
Oxygen, Dissolved	0.50	mg/L			1		11/09/18 12:22	7782-44-7	
Turbidity	0.06	NTU			1		11/09/18 12:22		
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	11/15/18 01:10	11/15/18 18:15	96-12-8	
1,2-Dibromoethane (EDB)	0.0071 U	ug/L	0.0095	0.0071	1	11/15/18 01:10	11/15/18 18:15	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	12.0	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:44	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:44	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:44	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:44	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:44	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:44	7440-50-8	
Iron	2630	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:44	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:44	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:44	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:44	7440-22-4	
Sodium	4.7	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:44	7440-23-5	
Vanadium	4.4 I	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:44	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:44	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	11/24/18 03:03	11/24/18 13:37	7440-36-0	
Arsenic	6.0	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:37	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:37	7439-92-1	
Selenium	1.1	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 15:13	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 14:36	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/18/18 19:46	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:46	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/18/18 19:46	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/18/18 19:46	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/18/18 19:46	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:46	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:46	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-23	Lab ID: 35429909004	Collected: 11/09/18 12:22	Received: 11/09/18 15:45	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		11/18/18 19:46	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 19:46	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/18/18 19:46	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/18/18 19:46	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/18/18 19:46	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:46	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 19:46	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 19:46	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:46	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 19:46	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/18/18 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 19:46	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/18/18 19:46	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/18/18 19:46	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/18/18 19:46	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/18/18 19:46	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/18/18 19:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		11/18/18 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/18/18 19:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/18/18 19:46	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	200	mg/L	5.0	5.0	1		11/14/18 15:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	5.7	mg/L	5.0	2.5	1		11/16/18 21:09	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-23	Lab ID: 35429909004	Collected: 11/09/18 12:22	Received: 11/09/18 15:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.2	mg/L	0.050	0.035	1		11/13/18 11:45	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		11/10/18 07:14	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-24 Lab ID: **35429909005** Collected: 11/09/18 13:01 Received: 11/09/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.43	Std. Units			1		11/09/18 13:01		
Field Temperature	28.6	deg C			1		11/09/18 13:01		
Field Specific Conductance	417.0	umhos/cm			1		11/09/18 13:01		
Oxygen, Dissolved	0.47	mg/L			1		11/09/18 13:01	7782-44-7	
Turbidity	0.04	NTU			1		11/09/18 13:01		
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	11/15/18 01:10	11/15/18 18:30	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 01:10	11/15/18 18:30	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	12.9	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:47	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:47	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:47	7440-43-9	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:47	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:47	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:47	7440-50-8	
Iron	13200	ug/L	40.0	9.2	1	11/24/18 03:01	11/27/18 14:47	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:47	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:47	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:47	7440-22-4	
Sodium	5.5	mg/L	2.0	0.27	1	11/24/18 03:01	11/27/18 14:47	7440-23-5	
Vanadium	6.7 I	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:47	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:47	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	11/24/18 03:03	11/24/18 13:39	7440-36-0	
Arsenic	8.7	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:39	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:39	7439-92-1	
Selenium	1.2	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 15:14	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 14:38	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/18/18 20:10	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:10	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/18/18 20:10	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/18/18 20:10	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/18/18 20:10	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:10	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:10	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-24	Lab ID: 35429909005	Collected: 11/09/18 13:01	Received: 11/09/18 15:45	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		11/18/18 20:10	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 20:10	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/18/18 20:10	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/18/18 20:10	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/18/18 20:10	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:10	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 20:10	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 20:10	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:10	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 20:10	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/18/18 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:10	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/18/18 20:10	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/18/18 20:10	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/18/18 20:10	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:10	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/18/18 20:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/18/18 20:10	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		11/18/18 20:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		11/18/18 20:10	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	280	mg/L	5.0	5.0	1		11/14/18 15:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	7.4	mg/L	5.0	2.5	1		11/16/18 21:31	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Sample: GW-24	Lab ID: 35429909005	Collected: 11/09/18 13:01	Received: 11/09/18 15:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	2.3	mg/L	0.050	0.035	1		11/13/18 11:47	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		11/10/18 07:15	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-19 Lab ID: **35429909006** Collected: 11/09/18 09:27 Received: 11/09/18 15:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.25	Std. Units			1		11/09/18 09:27		
Field Temperature	27.7	deg C			1		11/09/18 09:27		
Field Specific Conductance	313.8	umhos/cm			1		11/09/18 09:27		
Oxygen, Dissolved	0.42	mg/L			1		11/09/18 09:27	7782-44-7	
Turbidity	0.01	NTU			1		11/09/18 09:27		
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	11/15/18 01:10	11/15/18 18:45	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/15/18 01:10	11/15/18 18:45	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	6.3 I	ug/L	10.0	0.84	1	11/24/18 03:01	11/27/18 14:50	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/24/18 03:01	11/27/18 14:50	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/24/18 03:01	11/27/18 14:50	7440-43-9	
Chromium	1.7 I	ug/L	5.0	1.7	1	11/24/18 03:01	11/27/18 14:50	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/24/18 03:01	11/27/18 14:50	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/24/18 03:01	11/27/18 14:50	7440-50-8	
Iron	3110 ug/L		40.0	9.2	1	11/24/18 03:01	11/27/18 14:50	7439-89-6	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/24/18 03:01	11/27/18 14:50	7440-02-0	
Selenium	8.5 U	ug/L	15.0	8.5	1	11/24/18 03:01	11/27/18 14:50	7782-49-2	
Silver	1.0 U	ug/L	5.0	1.0	1	11/24/18 03:01	11/27/18 14:50	7440-22-4	
Sodium	10.2 mg/L		2.0	0.27	1	11/24/18 03:01	11/27/18 14:50	7440-23-5	
Vanadium	9.6 I	ug/L	10.0	1.0	1	11/24/18 03:01	11/27/18 14:50	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/24/18 03:01	11/27/18 14:50	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	11/24/18 03:03	11/24/18 13:41	7440-36-0	
Arsenic	9.5 ug/L		1.0	0.50	1	11/24/18 03:03	11/24/18 13:41	7440-38-2	
Lead	0.63 I	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:41	7439-92-1	
Selenium	1.5 ug/L		1.0	0.50	1	11/24/18 03:03	11/24/18 15:15	7782-49-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/24/18 03:03	11/24/18 13:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	0.10 U	ug/L	0.20	0.10	1	11/21/18 15:16	11/27/18 14:40	7439-97-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/18/18 20:34	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:34	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/18/18 20:34	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/18/18 20:34	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/18/18 20:34	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:34	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:34	75-15-0	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-19	Lab ID: 35429909006	Collected: 11/09/18 09:27	Received: 11/09/18 15:45	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		11/18/18 20:34	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 20:34	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/18/18 20:34	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/18/18 20:34	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/18/18 20:34	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:34	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 20:34	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/18/18 20:34	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:34	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/18/18 20:34	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/18/18 20:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/18/18 20:34	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/18/18 20:34	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/18/18 20:34	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/18/18 20:34	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/18/18 20:34	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/18/18 20:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/18/18 20:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/18/18 20:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		11/18/18 20:34	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	243	mg/L	5.0	5.0	1		11/14/18 15:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	18.1	mg/L	5.0	2.5	1		11/16/18 21:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: GW-19	Lab ID: 35429909006	Collected: 11/09/18 09:27	Received: 11/09/18 15:45	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	1.4	mg/L	0.050	0.035	1		11/13/18 11:49	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		11/10/18 07:16	14797-55-8	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Trip Blank 3 **Lab ID: 35429909007** Collected: 11/09/18 09:27 Received: 11/09/18 15:45 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	11/15/18 01:10	11/15/18 19:00	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/15/18 01:10	11/15/18 19:00	106-93-4	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-1 **Lab ID: 35430379001** Collected: 11/12/18 09:30 Received: 11/12/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.04	Std. Units			1		11/12/18 09:30		
Field Temperature	24.1	deg C			1		11/12/18 09:30		
Field Specific Conductance	478.1	umhos/cm			1		11/12/18 09:30		
Oxygen, Dissolved	2.04	mg/L			1		11/12/18 09:30	7782-44-7	
REDOX	117.1	mV			1		11/12/18 09:30		
Turbidity	12.4	NTU			1		11/12/18 09:30		
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	11/20/18 10:30	11/21/18 01:20	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0098	0.0073	1	11/20/18 10:30	11/21/18 01:20	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	22.1	ug/L	10.0	0.84	1	11/16/18 07:41	11/16/18 13:26	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/16/18 07:41	11/16/18 13:26	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/16/18 07:41	11/16/18 13:26	7440-43-9	
Calcium	48600	ug/L	500	64.1	1	11/16/18 07:41	11/16/18 13:26	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/16/18 07:41	11/16/18 13:26	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/16/18 07:41	11/16/18 13:26	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/16/18 07:41	11/16/18 13:26	7440-50-8	
Iron	7600	ug/L	40.0	9.2	1	11/16/18 07:41	11/16/18 13:26	7439-89-6	
Magnesium	13400	ug/L	500	84.0	1	11/16/18 07:41	11/16/18 13:26	7439-95-4	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/16/18 07:41	11/16/18 13:26	7440-02-0	
Tot Hardness asCaCO ₃ (SM 2340B)	176000	ug/L		506	1	11/16/18 07:41	11/16/18 13:26		
Vanadium	2.6 I	ug/L	10.0	1.0	1	11/16/18 07:41	11/16/18 13:26	7440-62-2	
Zinc	14.8 I	ug/L	20.0	11.0	1	11/16/18 07:41	11/16/18 13:26	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	11/20/18 12:04	11/21/18 17:48	7440-36-0	
Arsenic	6.5	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:48	7440-38-2	
Lead	1.0	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:48	7439-92-1	
Selenium	1.5	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:48	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	11/20/18 12:04	11/21/18 17:48	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:48	7440-28-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/21/18 16:38	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/21/18 16:38	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/21/18 16:38	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/21/18 16:38	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/21/18 16:38	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 16:38	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/21/18 16:38	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/21/18 16:38	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-1	Lab ID: 35430379001	Collected: 11/12/18 09:30	Received: 11/12/18 16:10	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		11/21/18 16:38	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 16:38	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/21/18 16:38	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/21/18 16:38	124-48-1	J(L1)
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/21/18 16:38	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/21/18 16:38	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 16:38	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 16:38	10061-02-6	J(L1)
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/21/18 16:38	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 16:38	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/21/18 16:38	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 16:38	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/21/18 16:38	79-34-5	J(L1)
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/21/18 16:38	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/21/18 16:38	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/21/18 16:38	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		11/21/18 16:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/21/18 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/21/18 16:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/21/18 16:38	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	305	mg/L	5.0	5.0	1		11/14/18 15:16		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	20.6	mg/L	2.0	2.0	1		11/13/18 10:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-1	Lab ID: 35430379001	Collected: 11/12/18 09:30	Received: 11/12/18 16:10	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform Tampa	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	52.0	CFU/100 mL	1.0	1.0	1	11/12/18 16:30	11/13/18 14:51		
1631E Mercury, Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	8.64	ng/L	0.50	0.25	1	11/15/18 16:10	11/16/18 13:08	7439-97-6	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/13/18 18:56	11/18/18 16:33		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	3.9 I	mg/m3	8.5	3.8	1	11/13/18 15:52	11/20/18 16:48		
Chlorophyll b	3.8 U	mg/m3	8.5	3.8	1	11/13/18 15:52	11/20/18 16:48		
Chlorophyll c	3.8 U	mg/m3	8.5	3.8	1	11/13/18 15:52	11/20/18 16:48		
Chlorophyll a (Corrected)	3.8 U	mg/m3	8.5	3.8	1	11/13/18 15:52	11/20/18 16:48		
Pheophytin	147	mg/m3	8.5	3.8	1	11/13/18 15:52	11/20/18 16:48		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	2.7	mg/L	0.50	0.086	1		12/04/18 14:32		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.78	mg/L	0.050	0.035	1		11/13/18 12:09	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	2.4	mg/L	0.50	0.086	1	11/27/18 17:16	11/28/18 12:44	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	0.29	mg/L	0.050	0.033	1		11/13/18 07:47		
Nitrogen, Nitrate	0.23	mg/L	0.050	0.025	1		11/13/18 07:47	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	0.92	mg/L	0.10	0.050	1	11/27/18 17:16	11/28/18 12:44	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	70.1	mg/L	20.0	12.5	1	11/15/18 11:37	11/19/18 09:01		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	18.6	mg/L	1.0	0.50	1		11/21/18 23:19	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonium	0.77	mg/L	0.050	0.035	1		11/28/18 12:00	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		11/28/18 12:00		

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-2 **Lab ID: 35430379002** Collected: 11/12/18 08:30 Received: 11/12/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.24	Std. Units			1		11/12/18 08:30		
Field Temperature	22.8	deg C			1		11/12/18 08:30		
Field Specific Conductance	1452	umhos/cm			1		11/12/18 08:30		
Oxygen, Dissolved	0.84	mg/L			1		11/12/18 08:30	7782-44-7	
REDOX	173	mV			1		11/12/18 08:30		
Turbidity	16.3	NTU			1		11/12/18 08:30		
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	11/20/18 10:30	11/21/18 01:35	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/20/18 10:30	11/21/18 01:35	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	153	ug/L	20.0	1.7	2	11/16/18 07:41	11/16/18 14:20	7440-39-3	
Beryllium	3.2 U	ug/L	8.0	3.2	2	11/16/18 07:41	11/16/18 14:20	7440-41-7	D3
Cadmium	0.66 U	ug/L	2.0	0.66	2	11/16/18 07:41	11/16/18 14:20	7440-43-9	D3
Calcium	224000	ug/L	5000	641	10	11/16/18 07:41	11/20/18 15:39	7440-70-2	
Chromium	3.5 I	ug/L	10.0	3.4	2	11/16/18 07:41	11/16/18 14:20	7440-47-3	D3
Cobalt	2.2 I	ug/L	20.0	1.9	2	11/16/18 07:41	11/16/18 14:20	7440-48-4	D3
Copper	20.9	ug/L	10.0	5.2	2	11/16/18 07:41	11/16/18 14:20	7440-50-8	
Iron	164000	ug/L	400	92.0	10	11/16/18 07:41	11/20/18 15:39	7439-89-6	
Magnesium	64600	ug/L	1000	168	2	11/16/18 07:41	11/16/18 14:20	7439-95-4	
Nickel	5.7 I	ug/L	10.0	4.2	2	11/16/18 07:41	11/16/18 14:20	7440-02-0	D3
Tot Hardness asCaCO ₃ (SM 2340B)	826000	ug/L		5060	10	11/16/18 07:41	11/20/18 15:39		
Vanadium	25.8	ug/L	20.0	2.0	2	11/16/18 07:41	11/16/18 14:20	7440-62-2	
Zinc	53.9	ug/L	40.0	22.0	2	11/16/18 07:41	11/16/18 14:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Antimony	3.0	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:59	7440-36-0	
Arsenic	913	ug/L	2.0	1.0	2	11/20/18 12:04	11/21/18 19:20	7440-38-2	
Lead	14.9	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:59	7439-92-1	
Selenium	119	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:59	7782-49-2	
Silver	0.059 I	ug/L	0.10	0.050	1	11/20/18 12:04	11/21/18 17:59	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 17:59	7440-28-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	11.3 I	ug/L	20.0	10.0	1		11/21/18 17:03	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:03	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/21/18 17:03	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/21/18 17:03	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/21/18 17:03	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:03	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:03	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/21/18 17:03	56-23-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-2	Lab ID: 35430379002	Collected: 11/12/18 08:30	Received: 11/12/18 16:10	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		11/21/18 17:03	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 17:03	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/21/18 17:03	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/21/18 17:03	124-48-1	J(L1)
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/21/18 17:03	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:03	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 17:03	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 17:03	10061-02-6	J(L1)
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:03	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 17:03	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/21/18 17:03	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:03	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/21/18 17:03	79-34-5	J(L1)
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/21/18 17:03	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/21/18 17:03	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:03	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		11/21/18 17:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/21/18 17:03	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		11/21/18 17:03	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/21/18 17:03	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	1130	mg/L	10.0	10.0	1		11/14/18 15:16		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	922	mg/L	20.0	20.0	1		11/16/18 10:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-2	Lab ID: 35430379002	Collected: 11/12/18 08:30	Received: 11/12/18 16:10	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform Tampa	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	31.0	CFU/100 mL	1.0	1.0	1	11/12/18 16:30	11/13/18 14:51		
1631E Mercury, Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	17.0	ng/L	5.0	2.5	10	11/15/18 16:10	11/16/18 13:13	7439-97-6	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	7.0	mg/L	3.2	3.2	2	11/13/18 18:58	11/18/18 16:38		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	220	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:52		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:52		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:52		
Chlorophyll a (Corrected)	147	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:52		
Pheophytin	108	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:52		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	2.2	mg/L	0.50	0.086	1		12/04/18 14:32		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.52 U	mg/L	0.75	0.52	15		11/13/18 12:11	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	2.2	mg/L	2.0	0.34	1	11/27/18 17:16	11/28/18 12:52	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		11/13/18 07:42		
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/13/18 07:42	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	1.4	mg/L	0.40	0.20	1	11/27/18 17:16	11/28/18 12:52	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	335	mg/L	20.0	12.5	1	11/19/18 10:20	11/19/18 15:18		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	42.3	mg/L	1.0	0.50	1		11/22/18 00:10	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonium	0.48	mg/L	0.050	0.035	1		11/28/18 12:00	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		11/28/18 12:00		

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-1 Dup **Lab ID: 35430379003** Collected: 11/12/18 09:30 Received: 11/12/18 16:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.04	Std. Units			1		11/12/18 09:30		
Field Temperature	24.1	deg C			1		11/12/18 09:30		
Field Specific Conductance	478.1	umhos/cm			1		11/12/18 09:30		
Oxygen, Dissolved	2.04	mg/L			1		11/12/18 09:30	7782-44-7	
REDOX	117.1	mV			1		11/12/18 09:30		
Turbidity	12.4	NTU			1		11/12/18 09:30		
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	11/20/18 10:30	11/21/18 01:49	96-12-8	
1,2-Dibromoethane (EDB)	0.0074 U	ug/L	0.0098	0.0074	1	11/20/18 10:30	11/21/18 01:49	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	15.8	ug/L	10.0	0.84	1	11/16/18 07:41	11/16/18 14:22	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/16/18 07:41	11/16/18 14:22	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/16/18 07:41	11/16/18 14:22	7440-43-9	
Calcium	41400	ug/L	500	64.1	1	11/16/18 07:41	11/16/18 14:22	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/16/18 07:41	11/16/18 14:22	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/16/18 07:41	11/16/18 14:22	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/16/18 07:41	11/16/18 14:22	7440-50-8	
Iron	6060	ug/L	40.0	9.2	1	11/16/18 07:41	11/16/18 14:22	7439-89-6	
Magnesium	11300	ug/L	500	84.0	1	11/16/18 07:41	11/16/18 14:22	7439-95-4	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/16/18 07:41	11/16/18 14:22	7440-02-0	
Tot Hardness asCaCO ₃ (SM 2340B)	150000	ug/L		506	1	11/16/18 07:41	11/16/18 14:22		
Vanadium	1.6 I	ug/L	10.0	1.0	1	11/16/18 07:41	11/16/18 14:22	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/16/18 07:41	11/16/18 14:22	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	11/20/18 12:04	11/21/18 18:00	7440-36-0	
Arsenic	5.8	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:00	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:00	7439-92-1	
Selenium	0.96 I	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:00	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	11/20/18 12:04	11/21/18 18:00	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:00	7440-28-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	10.0 U	ug/L	20.0	10.0	1		11/21/18 17:28	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:28	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/21/18 17:28	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/21/18 17:28	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/21/18 17:28	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:28	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:28	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/21/18 17:28	56-23-5	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-1 Dup	Lab ID: 35430379003	Collected: 11/12/18 09:30	Received: 11/12/18 16:10	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		11/21/18 17:28	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 17:28	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/21/18 17:28	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/21/18 17:28	124-48-1	J(L1)
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/21/18 17:28	74-95-3	
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	106-46-7	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:28	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 17:28	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 17:28	10061-02-6	J(L1)
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:28	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 17:28	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/21/18 17:28	75-09-2	J(L1)
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 17:28	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/21/18 17:28	79-34-5	J(L1)
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	75-69-4	
1,2,3-Trichloropropene	0.59 U	ug/L	2.0	0.59	1		11/21/18 17:28	96-18-4	J(L1)
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/21/18 17:28	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/21/18 17:28	75-01-4	
Xylene (Total)	1.0 U	ug/L	3.0	1.0	1		11/21/18 17:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/21/18 17:28	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		11/21/18 17:28	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		11/21/18 17:28	2037-26-5	
2540C Total Diss. Solids Tampa	Analytical Method: SM 2540C								
Total Dissolved Solids	280	mg/L	5.0	5.0	1		11/14/18 15:17		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	11.4	mg/L	2.0	2.0	1		11/16/18 10:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: SW-1 Dup	Lab ID: 35430379003	Collected: 11/12/18 09:30	Received: 11/12/18 16:10	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform Tampa	Analytical Method: SM 9222D Preparation Method: SM 9222D								
Fecal Coliforms	56.0	CFU/100 mL	1.0	1.0	1	11/12/18 16:30	11/13/18 14:51		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/13/18 18:59	11/18/18 16:40		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	6.6	mg/m3	6.2	2.8	1	11/13/18 15:52	11/20/18 16:54		
Chlorophyll b	2.8 U	mg/m3	6.2	2.8	1	11/13/18 15:52	11/20/18 16:54		
Chlorophyll c	2.8 U	mg/m3	6.2	2.8	1	11/13/18 15:52	11/20/18 16:54		
Chlorophyll a (Corrected)	2.8 U	mg/m3	6.2	2.8	1	11/13/18 15:52	11/20/18 16:54		
Pheophytin	168	mg/m3	6.2	2.8	1	11/13/18 15:52	11/20/18 16:54		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	1.7	mg/L	0.50	0.086	1		12/04/18 14:32		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.65	mg/L	0.050	0.035	1		11/13/18 12:13	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	1.5	mg/L	0.50	0.086	1	11/27/18 17:16	11/28/18 12:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	0.27	mg/L	0.050	0.033	1		11/13/18 07:48		
Nitrogen, Nitrate	0.21	mg/L	0.050	0.025	1		11/13/18 07:48	14797-55-8	
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	1.1	mg/L	0.10	0.050	1	11/27/18 17:16	11/28/18 12:53	7723-14-0	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4								
Chemical Oxygen Demand	68.7	mg/L	20.0	12.5	1	11/19/18 10:20	11/19/18 15:18		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	19.2	mg/L	1.0	0.50	1		11/22/18 00:25	7440-44-0	
Un-ionized Ammonia, Ammonium	Analytical Method: FLDEP SOP 10/03/83								
Nitrogen, Ammonium	0.64	mg/L	0.050	0.035	1		11/28/18 12:00	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		11/28/18 12:00		

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Field Blank	Lab ID: 35430379004	Collected: 11/12/18 09:25	Received: 11/12/18 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	11/20/18 10:30	11/21/18 02:04	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	11/20/18 10:30	11/21/18 02:04	106-93-4	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Barium	0.84 U	ug/L	10.0	0.84	1	11/16/18 07:41	11/16/18 14:25	7440-39-3	
Beryllium	1.6 U	ug/L	4.0	1.6	1	11/16/18 07:41	11/16/18 14:25	7440-41-7	
Cadmium	0.33 U	ug/L	1.0	0.33	1	11/16/18 07:41	11/16/18 14:25	7440-43-9	
Calcium	64.1 U	ug/L	500	64.1	1	11/16/18 07:41	11/16/18 14:25	7440-70-2	
Chromium	1.7 U	ug/L	5.0	1.7	1	11/16/18 07:41	11/16/18 14:25	7440-47-3	
Cobalt	0.96 U	ug/L	10.0	0.96	1	11/16/18 07:41	11/16/18 14:25	7440-48-4	
Copper	2.6 U	ug/L	5.0	2.6	1	11/16/18 07:41	11/16/18 14:25	7440-50-8	
Iron	9.2 U	ug/L	40.0	9.2	1	11/16/18 07:41	11/16/18 14:25	7439-89-6	
Magnesium	84.0 U	ug/L	500	84.0	1	11/16/18 07:41	11/16/18 14:25	7439-95-4	
Nickel	2.1 U	ug/L	5.0	2.1	1	11/16/18 07:41	11/16/18 14:25	7440-02-0	
Tot Hardness asCaCO ₃ (SM 2340B)	506 U	ug/L	3210	506	1	11/16/18 07:41	11/16/18 14:25		
Vanadium	1.0 U	ug/L	10.0	1.0	1	11/16/18 07:41	11/16/18 14:25	7440-62-2	
Zinc	11.0 U	ug/L	20.0	11.0	1	11/16/18 07:41	11/16/18 14:25	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	11/20/18 12:04	11/21/18 18:02	7440-36-0	
Arsenic	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:02	7440-38-2	
Lead	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:02	7439-92-1	
Selenium	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:02	7782-49-2	
Silver	0.050 U	ug/L	0.10	0.050	1	11/20/18 12:04	11/21/18 18:02	7440-22-4	
Thallium	0.50 U	ug/L	1.0	0.50	1	11/20/18 12:04	11/21/18 18:02	7440-28-0	
8260 MSV	Analytical Method: EPA 8260								
Acetone	49.3	ug/L	20.0	10.0	1		11/21/18 10:43	67-64-1	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		11/21/18 10:43	107-13-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		11/21/18 10:43	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		11/21/18 10:43	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		11/21/18 10:43	74-83-9	
2-Butanone (MEK)	20.7	ug/L	10.0	5.0	1		11/21/18 10:43	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		11/21/18 10:43	75-15-0	
Carbon tetrachloride	0.50 U	ug/L	3.0	0.50	1		11/21/18 10:43	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 10:43	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		11/21/18 10:43	74-87-3	
Dibromochloromethane	0.26 U	ug/L	2.0	0.26	1		11/21/18 10:43	124-48-1	
Dibromomethane	0.50 U	ug/L	2.0	0.50	1		11/21/18 10:43	74-95-3	J(L1)
1,2-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	95-50-1	
1,4-Dichlorobenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Field Blank	Lab ID: 35430379004	Collected: 11/12/18 09:25	Received: 11/12/18 16:10	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		11/21/18 10:43	110-57-6	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	78-87-5	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 10:43	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		11/21/18 10:43	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	100-41-4	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		11/21/18 10:43	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		11/21/18 10:43	74-88-4	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		11/21/18 10:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		11/21/18 10:43	108-10-1	
Styrene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	630-20-6	J(L1)
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		11/21/18 10:43	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	127-18-4	
Toluene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	108-88-3	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	2.0	0.59	1		11/21/18 10:43	96-18-4	
Vinyl acetate	1.0 U	ug/L	10.0	1.0	1		11/21/18 10:43	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		11/21/18 10:43	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		11/21/18 10:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		11/21/18 10:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		11/21/18 10:43	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		11/21/18 10:43	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		11/14/18 15:18		
2540D Total Susp. Solids Tampa	Analytical Method: SM 2540D								
Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1		11/16/18 10:12		
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	11/12/18 16:30	11/13/18 14:51		
1631E Mercury, Low Level Tampa	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	0.25 U	ng/L	0.50	0.25	1	11/15/18 16:10	11/16/18 11:53	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Field Blank	Lab ID: 35430379004	Collected: 11/12/18 09:25	Received: 11/12/18 16:10	Matrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	2.0 U	mg/L	2.0	2.0	1	11/13/18 19:00	11/18/18 16:42		
Chlorophyll & Pheophytin	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	2.2 U	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:56		
Chlorophyll b	2.2 U	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:56		
Chlorophyll c	2.2 U	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:56		
Chlorophyll a (Corrected)	2.2 U	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:56		
Pheophytin	71.4	mg/m3	5.0	2.2	1	11/13/18 15:52	11/20/18 16:56		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	0.086 U	mg/L	0.50	0.086	1		12/04/18 14:32		
350.1 Ammonia	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.035 U	mg/L	0.050	0.035	1		11/13/18 12:22	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	11/27/18 17:16	11/28/18 12:54	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		11/13/18 07:46		
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		11/13/18 07:46	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	11/27/18 17:16	11/28/18 12:54	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	11/19/18 10:20	11/19/18 15:18		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	1.2	mg/L	1.0	0.50	1		11/22/18 00:39	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		11/28/18 12:00	7764-41-7	N2
Nitrogen, Ammonia (Unionized)	0.020 U	mg/L	0.020	0.020	1		11/28/18 12:00		

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Trip Blank 4 **Lab ID: 35430379005** Collected: 11/12/18 09:30 Received: 11/12/18 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	11/20/18 10:30	11/21/18 02:33	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	11/20/18 10:30	11/21/18 02:33	106-93-4	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Sample: SW-1 LL Hg Field Blank Lab ID: 35430379006 Collected: 11/12/18 09:30 Received: 11/12/18 16:10 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	11/15/18 16:10	11/16/18 11:58	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Sample: SW-2 LL Hg Field Blank Lab ID: 35430379007 Collected: 11/12/18 08:30 Received: 11/12/18 16:10 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	11/15/18 16:10	11/16/18 12:03	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Field Blank LL Hg Dup Lab ID: 35430379008 Collected: 11/12/18 09:30 Received: 11/12/18 16:10 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	11/15/18 16:10	11/16/18 12:08	7439-97-6	

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Sample: Field Blank Hg Dup Field Lab ID: 35430379009 Collected: 11/12/18 09:30 Received: 11/12/18 16:10 Matrix: Water
Blank

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	11/15/18 16:10	11/16/18 12:13	7439-97-6

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ANALYTICAL RESULTS

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Sample: Field Blank LL Hg Field Blank Lab ID: 35430379010 Collected: 11/12/18 09:25 Received: 11/12/18 16:10 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	11/15/18 16:10	11/16/18 12:18	7439-97-6

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch: 494009 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

METHOD BLANK: 2672151 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011

Parameter	Units	Blank		Reporting		Analyzed	Qualifiers
		Result	Limit	MDL			
Mercury	ug/L	0.10	U	0.20	0.10	11/20/18 17:16	

LABORATORY CONTROL SAMPLE: 2672152

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: 2672153 2672154

Parameter	35429268003		MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
	Units	Result	Spike Conc.	Spike Conc.								Qual
Mercury	ug/L	0.10	U	2	2	2.0	2.0	101	98	75-125	3	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 495344 Analysis Method: EPA 7470

QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009

METHOD BLANK: 2679174 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/26/18 15:34	

LABORATORY CONTROL SAMPLE: 2679175

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: 2679176 2679177

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.0	104	102	75-125	2	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	495346	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	35429580010, 35429580011, 35429580012, 35429580013		

METHOD BLANK: 2679180 Matrix: Water

Associated Lab Samples: 35429580010, 35429580011, 35429580012, 35429580013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/27/18 13:02	

LABORATORY CONTROL SAMPLE: 2679181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2679182 2679183

Parameter	Units	MS Result	MSD Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.1	2.0	103	102	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 495348 Analysis Method: EPA 7470

QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

METHOD BLANK: 2679187 Matrix: Water

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	11/27/18 14:08	

LABORATORY CONTROL SAMPLE: 2679188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2679189 2679190

Parameter	Units	35429503001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	2.0	2.0	101	98	75-125	4	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492355 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

METHOD BLANK: 2662661 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Barium	ug/L	0.84 U	10.0	0.84	11/09/18 15:45	
Beryllium	ug/L	1.6 U	4.0	1.6	11/09/18 15:45	
Cadmium	ug/L	0.33 U	1.0	0.33	11/09/18 15:45	
Chromium	ug/L	1.7 U	5.0	1.7	11/09/18 15:45	
Cobalt	ug/L	0.96 U	10.0	0.96	11/09/18 15:45	
Copper	ug/L	2.6 U	5.0	2.6	11/09/18 15:45	
Iron	ug/L	9.2 U	40.0	9.2	11/09/18 15:45	
Nickel	ug/L	2.1 U	5.0	2.1	11/09/18 15:45	
Silver	ug/L	1.0 U	5.0	1.0	11/09/18 15:45	
Sodium	mg/L	0.27 U	2.0	0.27	11/09/18 15:45	
Vanadium	ug/L	1.0 U	10.0	1.0	11/09/18 15:45	
Zinc	ug/L	11.0 U	20.0	11.0	11/09/18 15:45	

LABORATORY CONTROL SAMPLE: 2662662

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Barium	ug/L	250	259	103	80-120	
Beryllium	ug/L	25	25.2	101	80-120	
Cadmium	ug/L	25	25.9	104	80-120	
Chromium	ug/L	250	257	103	80-120	
Cobalt	ug/L	250	260	104	80-120	
Copper	ug/L	250	250	100	80-120	
Iron	ug/L	2500	2590	104	80-120	
Nickel	ug/L	250	263	105	80-120	
Silver	ug/L	25	25.7	103	80-120	
Sodium	mg/L	12.5	13.1	105	80-120	
Vanadium	ug/L	250	255	102	80-120	
Zinc	ug/L	1250	1310	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662663 2662664

Parameter	Units	35429268001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max
		Result	Spike	Spike							
Barium	ug/L	20.4	250	250	276	272	102	101	75-125	1	20
Beryllium	ug/L	1.6 U	25	25	24.8	24.5	99	98	75-125	1	20
Cadmium	ug/L	0.33 U	25	25	25.5	25.3	102	101	75-125	1	20
Chromium	ug/L	1.7 U	250	250	257	254	102	101	75-125	1	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662663 2662664

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	Max	
		35429268001 Result	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
Cobalt	ug/L	0.96 U	250	250	261	259	104	103	75-125	1	20
Copper	ug/L	2.6 U	250	250	253	250	101	100	75-125	1	20
Iron	ug/L	5230	2500	2500	7700	7590	99	94	75-125	1	20
Nickel	ug/L	2.1 U	250	250	262	259	104	103	75-125	1	20
Silver	ug/L	1.0 U	25	25	25.7	25.1	103	101	75-125	2	20
Sodium	mg/L	8.5	12.5	12.5	21.6	21.5	105	104	75-125	1	20
Vanadium	ug/L	5.5 I	250	250	262	259	103	102	75-125	1	20
Zinc	ug/L	11.0 U	1250	1250	1270	1260	102	100	75-125	1	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	494274	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK: 2673829 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/16/18 13:12	
Beryllium	ug/L	1.6 U	4.0	1.6	11/16/18 13:12	
Cadmium	ug/L	0.33 U	1.0	0.33	11/16/18 13:12	
Calcium	ug/L	68.6 I	500	64.1	11/16/18 13:12	
Chromium	ug/L	1.7 U	5.0	1.7	11/16/18 13:12	
Cobalt	ug/L	0.96 U	10.0	0.96	11/16/18 13:12	
Copper	ug/L	2.6 U	5.0	2.6	11/16/18 13:12	
Iron	ug/L	9.2 U	40.0	9.2	11/16/18 13:12	
Magnesium	ug/L	84.0 U	500	84.0	11/16/18 13:12	
Nickel	ug/L	2.1 U	5.0	2.1	11/16/18 13:12	
Tot Hardness asCaCO ₃ (SM 2340B)	ug/L	506 U	3210	506	11/16/18 13:12	
Vanadium	ug/L	1.0 U	10.0	1.0	11/16/18 13:12	
Zinc	ug/L	11.0 U	20.0	11.0	11/16/18 13:12	

LABORATORY CONTROL SAMPLE: 2673830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	252	101	80-120	
Beryllium	ug/L	25	24.3	97	80-120	
Cadmium	ug/L	25	25.3	101	80-120	
Calcium	ug/L	12500	12800	102	80-120	
Chromium	ug/L	250	250	100	80-120	
Cobalt	ug/L	250	252	101	80-120	
Copper	ug/L	250	243	97	80-120	
Iron	ug/L	2500	2530	101	80-120	
Magnesium	ug/L	12500	12700	101	80-120	
Nickel	ug/L	250	255	102	80-120	
Tot Hardness asCaCO ₃ (SM 2340B)	ug/L	82700	84000	102	80-120	
Vanadium	ug/L	250	250	100	80-120	
Zinc	ug/L	1250	1260	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2673831 2673832

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35430379001	Result	Spike Conc.	Spike Conc.						
Barium	ug/L	22.1	250	250	272	277	100	102	75-125	2	20
Beryllium	ug/L	1.6 U	25	25	23.5	23.9	94	96	75-125	2	20
Cadmium	ug/L	0.33 U	25	25	24.6	25.2	99	101	75-125	2	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Parameter	Units	35430379001		MS Spike		MSD Spike		MS Result		MSD Result		% Rec	MSD % Rec	% Rec Limits	Max	
		Result	Conc.	Spike Conc.	MSD Result	MSD % Rec	MS Result	MS % Rec	RPD	RPD	Qual				RPD	RPD
Calcium	ug/L	48600	12500	12500	61400	61800	102	106	75-125	1	20					
Chromium	ug/L	1.7 U	250	250	248	253	99	101	75-125	2	20					
Cobalt	ug/L	0.96 U	250	250	253	258	101	103	75-125	2	20					
Copper	ug/L	2.6 U	250	250	246	250	98	99	75-125	2	20					
Iron	ug/L	7600	2500	2500	10200	10300	102	108	75-125	1	20					
Magnesium	ug/L	13400	12500	12500	26000	26300	101	103	75-125	1	20					
Nickel	ug/L	2.1 U	250	250	253	258	101	103	75-125	2	20					
Tot Hardness asCaCO ₃ (SM 2340B)	ug/L	176000	82700	82700	260000	263000	101	104	75-125	1	20					
Vanadium	ug/L	2.6 I	250	250	252	257	100	102	75-125	2	20					
Zinc	ug/L	14.8 I	1250	1250	1240	1250	98	99	75-125	1	20					

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 494589 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013

METHOD BLANK: 2676002 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Barium	ug/L	0.84 U	10.0	0.84	11/18/18 21:26	
Beryllium	ug/L	1.6 U	4.0	1.6	11/18/18 21:26	
Cadmium	ug/L	0.33 U	1.0	0.33	11/18/18 21:26	
Chromium	ug/L	1.7 U	5.0	1.7	11/18/18 21:26	
Cobalt	ug/L	0.96 U	10.0	0.96	11/18/18 21:26	
Copper	ug/L	2.6 U	5.0	2.6	11/18/18 21:26	
Iron	ug/L	9.2 U	40.0	9.2	11/18/18 21:26	
Nickel	ug/L	2.1 U	5.0	2.1	11/18/18 21:26	
Selenium	ug/L	8.5 U	15.0	8.5	11/18/18 21:26	
Silver	ug/L	1.0 U	5.0	1.0	11/18/18 21:26	
Sodium	mg/L	0.27 U	2.0	0.27	11/18/18 21:26	
Vanadium	ug/L	1.0 U	10.0	1.0	11/18/18 21:26	
Zinc	ug/L	11.0 U	20.0	11.0	11/18/18 21:26	

LABORATORY CONTROL SAMPLE: 2676003

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Barium	ug/L	250	246	98	80-120	
Beryllium	ug/L	25	24.2	97	80-120	
Cadmium	ug/L	25	25.0	100	80-120	
Chromium	ug/L	250	249	99	80-120	
Cobalt	ug/L	250	250	100	80-120	
Copper	ug/L	250	239	96	80-120	
Iron	ug/L	2500	2470	99	80-120	
Nickel	ug/L	250	252	101	80-120	
Selenium	ug/L	250	245	98	80-120	
Silver	ug/L	25	24.2	97	80-120	
Sodium	mg/L	12.5	12.5	100	80-120	
Vanadium	ug/L	250	246	98	80-120	
Zinc	ug/L	1250	1250	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2676004 2676005

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	% Rec	Max
		35429558002	Spike								
Parameter	Units	Result	Spike	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Barium	ug/L	52.7	250	250	299	283	98	92	75-125	5	20
Beryllium	ug/L	<1.6	25	25	24.6	23.4	99	94	75-125	5	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Parameter	Units	35429558002		MS		MSD		2676005				
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
										RPD	RPD	Qual
Cadmium	ug/L	<0.33	25	25	25.3	23.6	101	94	75-125	7	20	
Chromium	ug/L	<1.7	250	250	255	239	102	95	75-125	7	20	
Cobalt	ug/L	<0.96	250	250	255	239	102	96	75-125	6	20	
Copper	ug/L	<2.6	250	250	249	235	99	94	75-125	6	20	
Iron	ug/L	<9.2	2500	2500	2540	2360	101	94	75-125	7	20	
Nickel	ug/L	<2.1	250	250	256	241	102	96	75-125	6	20	
Selenium	ug/L	<8.5	250	250	233	224	93	90	75-125	4	20	
Silver	ug/L	<1.0	25	25	25.2	23.4	101	94	75-125	7	20	
Sodium	mg/L	123	12.5	12.5	132	132	75	73	75-125	0	20	J(M1)
Vanadium	ug/L	2.1	250	250	256	242	102	96	75-125	6	20	
Zinc	ug/L	<11.0	1250	1250	1250	1170	100	94	75-125	6	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 495882 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

METHOD BLANK: 2682629 Matrix: Water

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	0.84 U	10.0	0.84	11/27/18 13:50	
Beryllium	ug/L	1.6 U	4.0	1.6	11/27/18 13:50	
Cadmium	ug/L	0.33 U	1.0	0.33	11/27/18 13:50	
Chromium	ug/L	1.7 U	5.0	1.7	11/27/18 13:50	
Cobalt	ug/L	0.96 U	10.0	0.96	11/27/18 13:50	
Copper	ug/L	2.6 U	5.0	2.6	11/27/18 13:50	
Iron	ug/L	9.2 U	40.0	9.2	11/27/18 13:50	
Nickel	ug/L	2.1 U	5.0	2.1	11/27/18 13:50	
Selenium	ug/L	8.5 U	15.0	8.5	11/27/18 13:50	
Silver	ug/L	1.0 U	5.0	1.0	11/27/18 11:27	
Sodium	mg/L	0.27 U	2.0	0.27	11/27/18 13:50	
Vanadium	ug/L	1.0 U	10.0	1.0	11/27/18 13:50	
Zinc	ug/L	11.0 U	20.0	11.0	11/27/18 13:50	

LABORATORY CONTROL SAMPLE: 2682630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	257	103	80-120	
Beryllium	ug/L	50	50.8	102	80-120	
Cadmium	ug/L	50	51.6	103	80-120	
Chromium	ug/L	500	514	103	80-120	
Cobalt	ug/L	500	514	103	80-120	
Copper	ug/L	500	497	99	80-120	
Iron	ug/L	2500	2570	103	80-120	
Nickel	ug/L	500	521	104	80-120	
Selenium	ug/L	500	508	102	80-120	
Silver	ug/L	50	53.8	108	80-120	
Sodium	mg/L	12.5	12.7	102	80-120	
Vanadium	ug/L	500	508	102	80-120	
Zinc	ug/L	2500	2560	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682631 2682632

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		35429772001	Result	Spike Conc.	Spike Conc.						
Barium	ug/L	32.7	250	250	285	289	101	102	75-125	1	20
Beryllium	ug/L	1.6 U	50	50	49.2	49.5	97	98	75-125	1	20
Cadmium	ug/L	0.56 I	50	50	49.4	49.8	98	99	75-125	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682631 2682632

Parameter	Units	MS		MSD		MS Result	% Rec	MSD Result	% Rec	% Rec Limits	Max	
		35429772001	Spike Conc.	Spike Conc.	MS Result						RPD	RPD
Chromium	ug/L	13.9	500	500	510	515	99	100	75-125	1	20	
Cobalt	ug/L	7.0 I	500	500	492	494	97	97	75-125	1	20	
Copper	ug/L	2.6 U	500	500	481	482	96	96	75-125	0	20	
Iron	ug/L	3200	2500	2500	6950	7620	150	177	75-125	9	20 J(M1)	
Nickel	ug/L	12.2	500	500	503	510	98	99	75-125	1	20	
Selenium	ug/L	8.5 U	500	500	484	487	97	97	75-125	1	20	
Silver	ug/L	1.0 U	50	50	52.8	53.2	106	106	75-125	1	20	
Sodium	mg/L	6.6	12.5	12.5	18.9	19.3	98	101	75-125	2	20	
Vanadium	ug/L	21.6	500	500	518	524	99	101	75-125	1	20	
Zinc	ug/L	11.0 U	2500	2500	2430	2440	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492354 Analysis Method: EPA 6020

QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

METHOD BLANK: 2662657 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Antimony	ug/L	0.50 U	1.0	0.50	11/10/18 14:40	
Arsenic	ug/L	0.50 U	1.0	0.50	11/10/18 14:40	
Lead	ug/L	0.50 U	1.0	0.50	11/10/18 14:40	
Selenium	ug/L	0.50 U	1.0	0.50	11/09/18 14:52	
Thallium	ug/L	0.50 U	1.0	0.50	11/10/18 14:40	

LABORATORY CONTROL SAMPLE: 2662658

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Antimony	ug/L	50	50.5	101	80-120	
Arsenic	ug/L	50	48.9	98	80-120	
Lead	ug/L	50	50.6	101	80-120	
Selenium	ug/L	50	48.2	96	80-120	
Thallium	ug/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2662659 2662660

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	RPD	Max
		35429268002	Spike	Spike	Result	Result	% Rec	% Rec	% Rec			
Antimony	ug/L	0.50 U	50	50	49.3	49.4	98	99	75-125	0	20	
Arsenic	ug/L	7.0	50	50	56.7	57.3	99	101	75-125	1	20	
Lead	ug/L	0.50 U	50	50	49.4	49.9	98	99	75-125	1	20	
Selenium	ug/L	0.50 U	50	50	46.5	47.9	93	95	75-125	3	20	
Thallium	ug/L	0.50 U	50	50	49.4	50.1	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 494588 Analysis Method: EPA 6020

QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013

METHOD BLANK: 2675998 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Antimony	ug/L	0.50	U	1.0	0.50	11/19/18 15:21
Arsenic	ug/L	0.50	U	1.0	0.50	11/19/18 15:21
Lead	ug/L	0.50	U	1.0	0.50	11/19/18 15:21
Selenium	ug/L	0.50	U	1.0	0.50	11/19/18 15:21
Thallium	ug/L	0.50	U	1.0	0.50	11/19/18 15:21

LABORATORY CONTROL SAMPLE: 2675999

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Antimony	ug/L	50	51.6	103	80-120	
Arsenic	ug/L	50	51.1	102	80-120	
Lead	ug/L	50	50.2	100	80-120	
Selenium	ug/L	50	51.0	102	80-120	
Thallium	ug/L	50	49.6	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2676000 2676001

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
		35429558001	Spike	Spike	Result	Result	% Rec	Qual	RPD	RPD	Qual
Antimony	ug/L	<0.50	50	50	51.1	50.3	102	100	75-125	2	20
Arsenic	ug/L	7.2	50	50	59.1	58.0	104	102	75-125	2	20
Lead	ug/L	<0.50	50	50	48.8	48.0	97	96	75-125	2	20
Selenium	ug/L	1.8	50	50	53.3	52.6	103	102	75-125	1	20
Thallium	ug/L	<0.50	50	50	49.0	48.2	98	96	75-125	2	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	495243	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET
Associated Lab Samples:	35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK: 2678906 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/24/18 12:04	
Arsenic	ug/L	0.50 U	1.0	0.50	11/24/18 12:04	
Lead	ug/L	0.50 U	1.0	0.50	11/24/18 12:04	
Selenium	ug/L	0.50 U	1.0	0.50	11/24/18 12:04	
Silver	ug/L	0.050 U	0.10	0.050	11/24/18 12:04	
Thallium	ug/L	0.50 U	1.0	0.50	11/24/18 12:04	

LABORATORY CONTROL SAMPLE: 2678907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.8	102	80-120	
Arsenic	ug/L	50	52.2	104	80-120	
Lead	ug/L	50	51.8	104	80-120	
Selenium	ug/L	50	53.1	106	80-120	
Silver	ug/L	5	5.4	109	80-120	
Thallium	ug/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2678908 2678909

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max	
		35430379001 Result	Spike Conc.	Spike Conc.	MS Result				RPD	RPD
Antimony	ug/L	0.50 U	50	50	50.7	53.9	101	108	75-125	6 20
Arsenic	ug/L	6.5	50	50	58.3	61.1	104	109	75-125	5 20
Lead	ug/L	1.0	50	50	51.2	54.3	100	107	75-125	6 20
Selenium	ug/L	1.5	50	50	54.4	55.0	106	107	75-125	1 20
Silver	ug/L	0.050 U	5	5	5.4	5.7	107	113	75-125	5 20
Thallium	ug/L	0.50 U	50	50	51.5	54.4	103	109	75-125	6 20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 495881 Analysis Method: EPA 6020

QC Batch Method: EPA 3010 Analysis Description: 6020 MET

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

METHOD BLANK: 2682625 Matrix: Water

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	
Arsenic	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	
Lead	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	
Selenium	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	
Thallium	ug/L	0.50 U	1.0	0.50	11/24/18 12:38	

LABORATORY CONTROL SAMPLE: 2682626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	50.7	101	80-120	
Arsenic	ug/L	50	50.2	100	80-120	
Lead	ug/L	50	50.9	102	80-120	
Selenium	ug/L	50	50.5	101	80-120	
Thallium	ug/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682627 2682628

Parameter	Units	35429772002		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		MS Spike Result	MSD Spike Conc.	MS Spike Result	MSD Conc.								
Antimony	ug/L	0.50 U	50	50	51.3	51.2	103	102	75-125	0	20		
Arsenic	ug/L	0.50 U	50	50	51.0	50.8	101	101	75-125	0	20		
Lead	ug/L	0.50 U	50	50	50.5	50.0	100	100	75-125	1	20		
Selenium	ug/L	0.50 U	50	50	51.4	49.8	102	99	75-125	3	20		
Thallium	ug/L	0.50 U	50	50	51.0	50.9	102	102	75-125	0	20		

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	494385	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011		

METHOD BLANK: 2674241 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/16/18 10:27	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/16/18 10:27	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Acetone	ug/L	10.0 U	20.0	10.0	11/16/18 10:27	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Benzene	ug/L	0.10 U	1.0	0.10	11/16/18 10:27	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/16/18 10:27	
Bromoform	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/16/18 10:27	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/16/18 10:27	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/16/18 10:27	
Chloroform	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/16/18 10:27	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/16/18 10:27	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/16/18 10:27	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/16/18 10:27	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/16/18 10:27	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/16/18 10:27	
Styrene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Toluene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/16/18 10:27	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/16/18 10:27	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

METHOD BLANK: 2674241

Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010, 35429268011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/16/18 10:27	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/16/18 10:27	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/16/18 10:27	
1,2-Dichloroethane-d4 (S)	%	92	70-130		11/16/18 10:27	
4-Bromofluorobenzene (S)	%	104	70-130		11/16/18 10:27	
Toluene-d8 (S)	%	99	70-130		11/16/18 10:27	

LABORATORY CONTROL SAMPLE: 2674242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	23.4	117	70-130	
1,1,1-Trichloroethane	ug/L	20	22.7	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	24.4	122	68-125	
1,1,2-Trichloroethane	ug/L	20	25.4	127	70-130	
1,1-Dichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	20	16.3	82	66-133	
1,2,3-Trichloropropane	ug/L	20	27.5	137	62-127 J(L1)	
1,2-Dichlorobenzene	ug/L	20	23.9	119	70-130	
1,2-Dichloroethane	ug/L	20	19.9	99	70-130	
1,2-Dichloropropane	ug/L	20	21.7	108	70-130	
1,4-Dichlorobenzene	ug/L	20	22.7	113	70-130	
2-Butanone (MEK)	ug/L	40	39.9	100	47-143	
2-Hexanone	ug/L	40	34.5	86	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.3	88	57-132	
Acetone	ug/L	40	42.7	107	46-148	
Acrylonitrile	ug/L	200	203	101	60-143	
Benzene	ug/L	20	21.9	109	70-130	
Bromochloromethane	ug/L	20	23.9	120	70-130	
Bromodichloromethane	ug/L	20	22.4	112	70-130	
Bromoform	ug/L	20	21.2	106	49-126	
Bromomethane	ug/L	20	7.8	39	10-165	
Carbon disulfide	ug/L	20	15.1	75	60-141	
Carbon tetrachloride	ug/L	20	20.1	100	63-126	
Chlorobenzene	ug/L	20	23.8	119	70-130	
Chloroethane	ug/L	20	19.2	96	71-142	
Chloroform	ug/L	20	22.0	110	70-130	
Chloromethane	ug/L	20	12.8	64	40-140	
cis-1,2-Dichloroethene	ug/L	20	21.1	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	70-130	
Dibromochloromethane	ug/L	20	21.7	109	62-118	
Dibromomethane	ug/L	20	24.2	121	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

LABORATORY CONTROL SAMPLE: 2674242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	22.8	114	70-130	
Iodomethane	ug/L	40	18.2	46	10-164	
Methylene Chloride	ug/L	20	19.8	99	65-136	
Styrene	ug/L	20	21.8	109	70-130	
Tetrachloroethene	ug/L	20	25.2	126	64-134	
Toluene	ug/L	20	23.8	119	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	68-127	
trans-1,3-Dichloropropene	ug/L	20	21.3	106	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	87	42-129	
Trichloroethene	ug/L	20	23.9	119	70-130	
Trichlorofluoromethane	ug/L	20	15.8	79	65-135	
Vinyl acetate	ug/L	20	18.5	92	60-144	
Vinyl chloride	ug/L	20	16.3	81	68-131	
Xylene (Total)	ug/L	60	68.2	114	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2676805

Parameter	Units	35429824028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	20.7	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	24.4	122	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	23.5	117	70-130	
1,1-Dichloroethane	ug/L	3.7	20	23.8	101	70-130	
1,1-Dichloroethene	ug/L	0.62 I	20	13.3	64	66-133 J(M1)	
1,2,3-Trichloropropane	ug/L	0.59 U	20	25.7	129	62-127 J(M0)	
1,2-Dichlorobenzene	ug/L	0.50 U	20	20.7	104	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	21.6	108	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	39.0	98	47-143	
2-Hexanone	ug/L	5.0 U	40	33.0	82	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	34.6	86	57-132	
Acetone	ug/L	10.0 U	40	37.0	84	46-148	
Acrylonitrile	ug/L	5.0 U	200	174	87	60-143	
Benzene	ug/L	0.10 U	20	21.5	107	70-130	
Bromochloromethane	ug/L	0.50 U	20	20.4	102	70-130	
Bromodichloromethane	ug/L	0.27 U	20	21.5	108	70-130	
Bromoform	ug/L	0.50 U	20	15.9	79	49-126	
Bromomethane	ug/L	0.50 U	20	6.2	31	10-165	
Carbon disulfide	ug/L	5.0 U	20	12.4	62	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	17.1	85	63-126	
Chlorobenzene	ug/L	0.50 U	20	21.9	109	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE SAMPLE: 2676805

Parameter	Units	35429824028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	0.50 U	20	25.6	128	71-142	
Chloroform	ug/L	0.50 U	20	21.3	105	70-130	
Chloromethane	ug/L	0.62 U	20	17.5	87	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	20.2	101	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	17.1	86	70-130	
Dibromochloromethane	ug/L	0.26 U	20	17.4	87	62-118	
Dibromomethane	ug/L	0.50 U	20	18.9	94	70-130	
Ethylbenzene	ug/L	0.50 U	20	22.1	111	70-130	
Iodomethane	ug/L	0.50 U	40	7.2 I	18	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.8	89	65-136	
Styrene	ug/L	0.50 U	20	19.7	98	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.3	96	64-134	
Toluene	ug/L	0.50 U	20	22.8	114	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.0	90	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	18.0	90	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	8.8 I	44	42-129	
Trichloroethene	ug/L	0.50 U	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.5	82	65-135	
Vinyl acetate	ug/L	1.0 U	20	17.8	89	60-144	
Vinyl chloride	ug/L	0.50 U	20	19.5	97	68-131	
Xylene (Total)	ug/L	1.5 U	60	64.6	108	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2676804

Parameter	Units	35429824027 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	7.8	7.7	1	40	
1,1-Dichloroethene	ug/L	1.7	1.7	4	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	0.60 I	0.56 I		40	
1,2-Dichloropropane	ug/L	0.50 U	0.50 U		40	
1,4-Dichlorobenzene	ug/L	0.69 I	0.61 I		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	0.31 I	0.31 I		40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

SAMPLE DUPLICATE: 2676804

Parameter	Units	35429824027	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	19.6	18.6	5	40	
Xylene (Total)	ug/L	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	87	90	4	40	
4-Bromofluorobenzene (S)	%	100	99	1	40	
Toluene-d8 (S)	%	98	99	1	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	494429	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35429580001, 35429580002, 35429580003, 35429580004		

METHOD BLANK: 2674504 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/17/18 09:42	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/17/18 09:42	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/17/18 09:42	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/17/18 09:42	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/17/18 09:42	
Acetone	ug/L	10.0 U	20.0	10.0	11/17/18 09:42	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/17/18 09:42	
Benzene	ug/L	0.10 U	1.0	0.10	11/17/18 09:42	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/17/18 09:42	
Bromoform	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/17/18 09:42	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/17/18 09:42	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/17/18 09:42	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/17/18 09:42	
Chloroform	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/17/18 09:42	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/17/18 09:42	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/17/18 09:42	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/17/18 09:42	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/17/18 09:42	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/17/18 09:42	
Styrene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Toluene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/17/18 09:42	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/17/18 09:42	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

METHOD BLANK: 2674504

Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/17/18 09:42	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/17/18 09:42	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/17/18 09:42	
1,2-Dichloroethane-d4 (S)	%	98	70-130		11/17/18 09:42	
4-Bromofluorobenzene (S)	%	102	70-130		11/17/18 09:42	
Toluene-d8 (S)	%	104	70-130		11/17/18 09:42	

LABORATORY CONTROL SAMPLE: 2674505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.6	113	70-130	
1,1,1-Trichloroethane	ug/L	20	19.1	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	97	68-125	
1,1,2-Trichloroethane	ug/L	20	22.0	110	70-130	
1,1-Dichloroethane	ug/L	20	17.8	89	70-130	
1,1-Dichloroethene	ug/L	20	16.0	80	66-133	
1,2,3-Trichloropropane	ug/L	20	18.1	91	62-127	
1,2-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloropropane	ug/L	20	18.7	94	70-130	
1,4-Dichlorobenzene	ug/L	20	19.2	96	70-130	
2-Butanone (MEK)	ug/L	40	36.7	92	47-143	
2-Hexanone	ug/L	40	32.7	82	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	33.6	84	57-132	
Acetone	ug/L	40	37.1	93	46-148	
Acrylonitrile	ug/L	200	169	85	60-143	
Benzene	ug/L	20	18.7	94	70-130	
Bromochloromethane	ug/L	20	20.6	103	70-130	
Bromodichloromethane	ug/L	20	19.0	95	70-130	
Bromoform	ug/L	20	18.9	94	49-126	
Bromomethane	ug/L	20	25.3	127	10-165	
Carbon disulfide	ug/L	20	13.7	68	60-141	
Carbon tetrachloride	ug/L	20	19.9	99	63-126	
Chlorobenzene	ug/L	20	20.3	102	70-130	
Chloroethane	ug/L	20	19.0	95	71-142	
Chloroform	ug/L	20	18.9	94	70-130	
Chloromethane	ug/L	20	13.0	65	40-140	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.4	87	70-130	
Dibromochloromethane	ug/L	20	18.7	94	62-118	
Dibromomethane	ug/L	20	21.9	109	70-130	
Ethylbenzene	ug/L	20	19.9	99	70-130	
Iodomethane	ug/L	40	15.7	39	10-164	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

LABORATORY CONTROL SAMPLE: 2674505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	18.2	91	65-136	
Styrene	ug/L	20	19.6	98	70-130	
Tetrachloroethene	ug/L	20	20.6	103	64-134	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.7	88	68-127	
trans-1,3-Dichloropropene	ug/L	20	17.4	87	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	13.9	70	42-129	
Trichloroethene	ug/L	20	19.5	98	70-130	
Trichlorofluoromethane	ug/L	20	16.0	80	65-135	
Vinyl acetate	ug/L	20	19.3	97	60-144	
Vinyl chloride	ug/L	20	16.5	82	68-131	
Xylene (Total)	ug/L	60	62.5	104	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2676847

Parameter	Units	35429824034 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.0	95	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	16.6	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.0	85	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	15.4	77	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.1	75	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	15.7	78	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.1	85	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	15.9	80	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	15.4	77	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	16.8	84	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	29.1	73	47-143	
2-Hexanone	ug/L	5.0 U	40	23.8	60	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	24.0	60	57-132	
Acetone	ug/L	10.0 U	40	29.2	73	46-148	
Acrylonitrile	ug/L	5.0 U	200	139	70	60-143	
Benzene	ug/L	0.10 U	20	15.7	79	70-130	
Bromochloromethane	ug/L	0.50 U	20	18.0	90	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.6	82	70-130	
Bromoform	ug/L	0.50 U	20	15.0	75	49-126	
Bromomethane	ug/L	0.50 U	20	20.3	101	10-165	
Carbon disulfide	ug/L	5.0 U	20	12.6	63	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	16.9	85	63-126	
Chlorobenzene	ug/L	0.50 U	20	17.2	86	70-130	
Chloroethane	ug/L	0.50 U	20	13.4	67	71-142 J(M1)	
Chloroform	ug/L	1.0	20	17.3	81	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE SAMPLE: 2676847

Parameter	Units	35429824034 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	9.5	48	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	14.8	74	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.0	65	70-130 J(M1)	
Dibromochloromethane	ug/L	0.26 U	20	15.1	76	62-118	
Dibromomethane	ug/L	0.50 U	20	19.2	96	70-130	
Ethylbenzene	ug/L	0.50 U	20	16.4	82	70-130	
Iodomethane	ug/L	0.50 U	40	4.4 I	11	10-164	
Methylene Chloride	ug/L	2.5 U	20	15.4	77	65-136	
Styrene	ug/L	0.50 U	20	15.4	77	70-130	
Tetrachloroethene	ug/L	0.50 U	20	17.3	87	64-134	
Toluene	ug/L	0.50 U	20	16.2	81	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	14.8	74	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	13.7	69	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	9.5 I	48	42-129	
Trichloroethene	ug/L	0.50 U	20	17.5	88	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	11.5	58	65-135 J(M1)	
Vinyl acetate	ug/L	1.0 U	20	13.2	66	60-144	
Vinyl chloride	ug/L	0.50 U	20	12.5	63	68-131 J(M1)	
Xylene (Total)	ug/L	1.5 U	60	50.0	83	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				112	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2676848

Parameter	Units	35429824035 Result	Dup Result	Max RPD	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	8.6	9.2		7	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

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

SAMPLE DUPLICATE: 2676848

Parameter	Units	35429824035	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	0.65 I	0.62 I		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	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	98	100	2	40	
4-Bromofluorobenzene (S)	%	100	102	2	40	
Toluene-d8 (S)	%	102	102	0	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	494434	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35429580005, 35429580006, 35429580007, 35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013		

METHOD BLANK:	2674557	Matrix:	Water
Associated Lab Samples:	35429580005, 35429580006, 35429580007, 35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/19/18 10:25	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/19/18 10:25	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Acetone	ug/L	10.0 U	20.0	10.0	11/19/18 10:25	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Benzene	ug/L	0.10 U	1.0	0.10	11/19/18 10:25	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/19/18 10:25	
Bromoform	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/19/18 10:25	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/19/18 10:25	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/19/18 10:25	
Chloroform	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/19/18 10:25	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/19/18 10:25	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/19/18 10:25	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/19/18 10:25	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/19/18 10:25	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/19/18 10:25	
Styrene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Toluene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/19/18 10:25	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/19/18 10:25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

METHOD BLANK: 2674557

Matrix: Water

Associated Lab Samples: 35429580005, 35429580006, 35429580007, 35429580008, 35429580009, 35429580010, 35429580011,
35429580012, 35429580013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/19/18 10:25	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/19/18 10:25	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/19/18 10:25	
1,2-Dichloroethane-d4 (S)	%	97	70-130		11/19/18 10:25	
4-Bromofluorobenzene (S)	%	108	70-130		11/19/18 10:25	
Toluene-d8 (S)	%	103	70-130		11/19/18 10:25	

LABORATORY CONTROL SAMPLE: 2674558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.0	105	70-130	
1,1,1-Trichloroethane	ug/L	20	22.0	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.5	102	68-125	
1,1,2-Trichloroethane	ug/L	20	23.6	118	70-130	
1,1-Dichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethene	ug/L	20	16.0	80	66-133	
1,2,3-Trichloropropane	ug/L	20	21.3	107	62-127	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	20	20.8	104	70-130	
1,4-Dichlorobenzene	ug/L	20	19.8	99	70-130	
2-Butanone (MEK)	ug/L	40	41.3	103	47-143	
2-Hexanone	ug/L	40	37.1	93	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.9	95	57-132	
Acetone	ug/L	40	48.7	122	46-148	
Acrylonitrile	ug/L	200	138	69	60-143	
Benzene	ug/L	20	21.4	107	70-130	
Bromochloromethane	ug/L	20	24.7	124	70-130	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	20.1	100	49-126	
Bromomethane	ug/L	20	18.1	91	10-165	
Carbon disulfide	ug/L	20	15.5	78	60-141	
Carbon tetrachloride	ug/L	20	19.6	98	63-126	
Chlorobenzene	ug/L	20	21.5	107	70-130	
Chloroethane	ug/L	20	22.0	110	71-142	
Chloroform	ug/L	20	21.5	108	70-130	
Chloromethane	ug/L	20	21.5	107	40-140	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
Dibromochloromethane	ug/L	20	19.9	100	62-118	
Dibromomethane	ug/L	20	24.3	121	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

LABORATORY CONTROL SAMPLE: 2674558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	20	20.9	104	70-130	
Iodomethane	ug/L	40	31.3	78	10-164	
Methylene Chloride	ug/L	20	20.8	104	65-136	
Styrene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	23.9	119	64-134	
Toluene	ug/L	20	21.9	110	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	68-127	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	26.7	134	42-129 J(L1)	
Trichloroethene	ug/L	20	22.2	111	70-130	
Trichlorofluoromethane	ug/L	20	17.5	88	65-135	
Vinyl acetate	ug/L	20	20.1	101	60-144	
Vinyl chloride	ug/L	20	19.8	99	68-131	
Xylene (Total)	ug/L	60	62.1	104	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2678301

Parameter	Units	35431408009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.7	98	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.9	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	16.0	80	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.7	89	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.6	83	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	15.8	79	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	16.8	84	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.9	85	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.4	82	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	15.9	80	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	31.9	80	47-143	
2-Hexanone	ug/L	5.0 U	40	28.9	72	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	28.0	70	57-132	
Acetone	ug/L	10.0 U	40	32.3	81	46-148	
Acrylonitrile	ug/L	5.0 U	200	197	98	60-143	
Benzene	ug/L	0.10 U	20	17.4	87	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.2	96	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.5	83	70-130	
Bromoform	ug/L	0.50 U	20	16.3	82	49-126	
Bromomethane	ug/L	0.50 U	20	18.5	93	10-165	
Carbon disulfide	ug/L	5.0 U	20	14.0	70	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.3	96	63-126	
Chlorobenzene	ug/L	0.50 U	20	17.2	86	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

MATRIX SPIKE SAMPLE: 2678301

Parameter	Units	35431408009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	0.50 U	20	13.8	69	71-142	J(M1)
Chloroform	ug/L	0.50 U	20	17.4	87	70-130	
Chloromethane	ug/L	0.62 U	20	11.7	58	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.6	83	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.6	68	70-130	J(M1)
Dibromochloromethane	ug/L	0.26 U	20	15.3	76	62-118	
Dibromomethane	ug/L	0.50 U	20	20.4	102	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.3	87	70-130	
Iodomethane	ug/L	0.50 U	40	25.5	64	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.7	83	65-136	
Styrene	ug/L	0.50 U	20	15.7	79	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.5	97	64-134	
Toluene	ug/L	0.50 U	20	17.5	87	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.5	88	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.2	71	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	12.3	61	42-129	
Trichloroethene	ug/L	0.50 U	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	12.9	64	65-135	J(M1)
Vinyl acetate	ug/L	1.0 U	20	14.9	74	60-144	
Vinyl chloride	ug/L	0.50 U	20	14.5	72	68-131	
Xylene (Total)	ug/L	1.5 U	60	52.7	88	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				114	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2678300

Parameter	Units	35431408008 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	
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	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

SAMPLE DUPLICATE: 2678300

Parameter	Units	35431408008	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	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	97	100	3	40	
4-Bromofluorobenzene (S)	%	93	93	0	40	
Toluene-d8 (S)	%	102	103	1	40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 494435 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

METHOD BLANK: 2674570 Matrix: Water

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/18/18 12:11	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/18/18 12:11	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/18/18 12:11	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/18/18 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/18/18 12:11	
Acetone	ug/L	10.0 U	20.0	10.0	11/18/18 12:11	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/18/18 12:11	
Benzene	ug/L	0.10 U	1.0	0.10	11/18/18 12:11	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/18/18 12:11	
Bromoform	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/18/18 12:11	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/18/18 12:11	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/18/18 12:11	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/18/18 12:11	
Chloroform	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/18/18 12:11	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/18/18 12:11	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/18/18 12:11	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/18/18 12:11	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/18/18 12:11	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/18/18 12:11	
Styrene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Toluene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/18/18 12:11	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/18/18 12:11	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

METHOD BLANK: 2674570

Matrix: Water

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/18/18 12:11	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/18/18 12:11	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/18/18 12:11	
1,2-Dichloroethane-d4 (S)	%	97	70-130		11/18/18 12:11	
4-Bromofluorobenzene (S)	%	106	70-130		11/18/18 12:11	
Toluene-d8 (S)	%	103	70-130		11/18/18 12:11	

LABORATORY CONTROL SAMPLE: 2674571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.0	110	70-130	
1,1,1-Trichloroethane	ug/L	20	16.7	83	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	68-125	
1,1,2-Trichloroethane	ug/L	20	20.5	102	70-130	
1,1-Dichloroethane	ug/L	20	15.5	78	70-130	
1,1-Dichloroethene	ug/L	20	13.7	68	66-133	
1,2,3-Trichloropropane	ug/L	20	17.8	89	62-127	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	16.7	83	70-130	
1,2-Dichloropropane	ug/L	20	16.6	83	70-130	
1,4-Dichlorobenzene	ug/L	20	17.8	89	70-130	
2-Butanone (MEK)	ug/L	40	38.7	97	47-143	
2-Hexanone	ug/L	40	35.8	90	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.8	89	57-132	
Acetone	ug/L	40	37.7	94	46-148	
Acrylonitrile	ug/L	200	161	80	60-143	
Benzene	ug/L	20	16.4	82	70-130	
Bromochloromethane	ug/L	20	18.9	95	70-130	
Bromodichloromethane	ug/L	20	17.4	87	70-130	
Bromoform	ug/L	20	19.3	96	49-126	
Bromomethane	ug/L	20	20.1	100	10-165	
Carbon disulfide	ug/L	20	13.7	69	60-141	
Carbon tetrachloride	ug/L	20	16.6	83	63-126	
Chlorobenzene	ug/L	20	18.7	93	70-130	
Chloroethane	ug/L	20	15.8	79	71-142	
Chloroform	ug/L	20	16.0	80	70-130	
Chloromethane	ug/L	20	12.1	61	40-140	
cis-1,2-Dichloroethene	ug/L	20	15.0	75	70-130	
cis-1,3-Dichloropropene	ug/L	20	15.8	79	70-130	
Dibromochloromethane	ug/L	20	17.8	89	62-118	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	17.7	88	70-130	
Iodomethane	ug/L	40	13.2	33	10-164	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

LABORATORY CONTROL SAMPLE: 2674571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	16.1	81	65-136	
Styrene	ug/L	20	17.5	87	70-130	
Tetrachloroethene	ug/L	20	19.0	95	64-134	
Toluene	ug/L	20	16.9	85	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.2	76	68-127	
trans-1,3-Dichloropropene	ug/L	20	16.9	85	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	14.3	71	42-129	
Trichloroethene	ug/L	20	17.4	87	70-130	
Trichlorofluoromethane	ug/L	20	15.9	79	65-135	
Vinyl acetate	ug/L	20	19.5	98	60-144	
Vinyl chloride	ug/L	20	16.0	80	68-131	
Xylene (Total)	ug/L	60	55.1	92	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 2677699

Parameter	Units	35430680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	21.0	105	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	17.9	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.7	88	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.0	85	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	15.5	77	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	16.0	80	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	18.0	90	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.4	82	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.5	82	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	17.4	87	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	33.2	83	47-143	
2-Hexanone	ug/L	5.0 U	40	27.7	69	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	27.6	69	57-132	
Acetone	ug/L	10.0 U	40	33.5	84	46-148	
Acrylonitrile	ug/L	5.0 U	200	132	66	60-143	
Benzene	ug/L	0.10 U	20	17.2	86	70-130	
Bromochloromethane	ug/L	0.50 U	20	19.8	99	70-130	
Bromodichloromethane	ug/L	0.27 U	20	18.2	91	70-130	
Bromoform	ug/L	0.50 U	20	16.8	84	49-126	
Bromomethane	ug/L	0.50 U	20	23.0	115	10-165	
Carbon disulfide	ug/L	5.0 U	20	14.1	70	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.0	95	63-126	
Chlorobenzene	ug/L	0.50 U	20	18.3	92	70-130	
Chloroethane	ug/L	0.50 U	20	15.3	76	71-142	
Chloroform	ug/L	0.50 U	20	17.5	87	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE SAMPLE: 2677699

Parameter	Units	35430680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	11.0	55	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	16.2	81	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.6	68	70-130 J(M1)	
Dibromochloromethane	ug/L	0.26 U	20	16.7	84	62-118	
Dibromomethane	ug/L	0.50 U	20	20.1	101	70-130	
Ethylbenzene	ug/L	0.50 U	20	18.3	91	70-130	
Iodomethane	ug/L	0.50 U	40	4.9 I	12	10-164	
Methylene Chloride	ug/L	2.5 U	20	16.4	82	65-136	
Styrene	ug/L	0.50 U	20	17.5	87	70-130	
Tetrachloroethene	ug/L	0.50 U	20	19.1	95	64-134	
Toluene	ug/L	0.50 U	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	16.0	80	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	14.7	74	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	11.2	56	42-129	
Trichloroethene	ug/L	0.50 U	20	18.9	94	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	14.3	71	65-135	
Vinyl acetate	ug/L	1.0 U	20	15.6	78	60-144	
Vinyl chloride	ug/L	0.50 U	20	14.3	72	68-131	
Xylene (Total)	ug/L	1.5 U	60	55.7	93	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				110	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2677700

Parameter	Units	35430680002 Result	Dup Result	Max RPD	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	1.2	1.5	19	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	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

SAMPLE DUPLICATE: 2677700

Parameter	Units	35430680002	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	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	100	99	1	40	
4-Bromofluorobenzene (S)	%	103	101	2	40	
Toluene-d8 (S)	%	102	101	0	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 495547 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 35430379001, 35430379002, 35430379003

METHOD BLANK: 2680616 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/21/18 08:48	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/21/18 08:48	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Acetone	ug/L	10.0 U	20.0	10.0	11/21/18 08:48	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Benzene	ug/L	0.10 U	1.0	0.10	11/21/18 08:48	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/21/18 08:48	
Bromoform	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/21/18 08:48	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/21/18 08:48	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/21/18 08:48	
Chloroform	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/21/18 08:48	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/21/18 08:48	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/21/18 08:48	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/21/18 08:48	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/21/18 08:48	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/21/18 08:48	
Styrene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Toluene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/21/18 08:48	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/21/18 08:48	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

METHOD BLANK: 2680616

Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/21/18 08:48	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/21/18 08:48	
Xylene (Total)	ug/L	1.0 U	3.0	1.0	11/21/18 08:48	
1,2-Dichloroethane-d4 (S)	%	104	70-130		11/21/18 08:48	
4-Bromofluorobenzene (S)	%	96	70-130		11/21/18 08:48	
Toluene-d8 (S)	%	100	70-130		11/21/18 08:48	

LABORATORY CONTROL SAMPLE: 2680617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	24.5	123	70-130	
1,1,1-Trichloroethane	ug/L	20	22.6	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	25.2	126	68-125 J(L1)	
1,1,2-Trichloroethane	ug/L	20	24.5	123	70-130	
1,1-Dichloroethane	ug/L	20	23.0	115	70-130	
1,1-Dichloroethene	ug/L	20	22.0	110	66-133	
1,2,3-Trichloropropane	ug/L	20	25.9	130	62-127 J(L1)	
1,2-Dichlorobenzene	ug/L	20	24.0	120	70-130	
1,2-Dichloroethane	ug/L	20	22.0	110	70-130	
1,2-Dichloropropane	ug/L	20	23.2	116	70-130	
1,4-Dichlorobenzene	ug/L	20	23.3	117	70-130	
2-Butanone (MEK)	ug/L	40	38.9	97	47-143	
2-Hexanone	ug/L	40	42.8	107	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	42.0	105	57-132	
Acetone	ug/L	40	45.5	114	46-148	
Acrylonitrile	ug/L	200	188	94	60-143	
Benzene	ug/L	20	23.4	117	70-130	
Bromochloromethane	ug/L	20	22.3	111	70-130	
Bromodichloromethane	ug/L	20	22.0	110	70-130	
Bromoform	ug/L	20	23.1	116	49-126	
Bromomethane	ug/L	20	19.9	100	10-165	
Carbon disulfide	ug/L	20	18.6	93	60-141	
Carbon tetrachloride	ug/L	20	22.5	112	63-126	
Chlorobenzene	ug/L	20	23.2	116	70-130	
Chloroethane	ug/L	20	14.9	75	71-142	
Chloroform	ug/L	20	22.6	113	70-130	
Chloromethane	ug/L	20	14.4	72	40-140	
cis-1,2-Dichloroethene	ug/L	20	22.1	111	70-130	
cis-1,3-Dichloropropene	ug/L	20	23.9	120	70-130	
Dibromochloromethane	ug/L	20	24.0	120	62-118 J(L1)	
Dibromomethane	ug/L	20	23.1	116	70-130	
Ethylbenzene	ug/L	20	24.1	121	70-130	
Iodomethane	ug/L	40	34.3	86	10-164	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

LABORATORY CONTROL SAMPLE: 2680617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	27.4	137	65-136	J(L1)
Styrene	ug/L	20	24.5	123	70-130	
Tetrachloroethene	ug/L	20	21.4	107	64-134	
Toluene	ug/L	20	24.3	122	70-130	
trans-1,2-Dichloroethene	ug/L	20	23.1	115	68-127	
trans-1,3-Dichloropropene	ug/L	20	25.3	126	65-121	J(L1)
trans-1,4-Dichloro-2-butene	ug/L	20	21.2	106	42-129	
Trichloroethene	ug/L	20	21.7	108	70-130	
Trichlorofluoromethane	ug/L	20	14.1	71	65-135	
Vinyl acetate	ug/L	20	23.5	117	60-144	
Vinyl chloride	ug/L	20	14.6	73	68-131	
Xylene (Total)	ug/L	60	73.8	123	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2682398

Parameter	Units	35430601002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	20	23.7	119	70-130	
1,1,1-Trichloroethane	ug/L	<0.50	20	23.4	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	20	25.8	129	68-125	J(M0)
1,1,2-Trichloroethane	ug/L	<0.50	20	24.3	122	70-130	
1,1-Dichloroethane	ug/L	<0.50	20	23.3	117	70-130	
1,1-Dichloroethene	ug/L	<0.50	20	23.2	116	66-133	
1,2,3-Trichloropropane	ug/L	<0.59	20	23.1	115	62-127	
1,2-Dichlorobenzene	ug/L	<0.50	20	23.2	116	70-130	
1,2-Dichloroethane	ug/L	<0.50	20	22.0	110	70-130	
1,2-Dichloropropane	ug/L	<0.50	20	22.8	114	70-130	
1,4-Dichlorobenzene	ug/L	<0.50	20	22.3	111	70-130	
2-Butanone (MEK)	ug/L	<5.0	40	34.7	87	47-143	
2-Hexanone	ug/L	<5.0	40	39.9	100	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	40	38.0	95	57-132	
Acetone	ug/L	<10.0	40	40.6	101	46-148	
Acrylonitrile	ug/L	<5.0	200	185	93	60-143	
Benzene	ug/L	<0.10	20	23.3	116	70-130	
Bromochloromethane	ug/L	<0.50	20	21.9	109	70-130	
Bromodichloromethane	ug/L	<0.27	20	21.7	108	70-130	
Bromoform	ug/L	<0.50	20	20.7	104	49-126	
Bromomethane	ug/L	<0.50	20	7.7	38	10-165	
Carbon disulfide	ug/L	<5.0	20	17.0	85	60-141	
Carbon tetrachloride	ug/L	<0.50	20	22.7	113	63-126	
Chlorobenzene	ug/L	<0.50	20	22.4	112	70-130	
Chloroethane	ug/L	<0.50	20	21.4	107	71-142	
Chloroform	ug/L	<0.50	20	22.5	113	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE SAMPLE: 2682398

Parameter	Units	35430601002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	<0.62	20	16.8	84	40-140	
cis-1,2-Dichloroethene	ug/L	<0.50	20	22.1	111	70-130	
cis-1,3-Dichloropropene	ug/L	<0.25	20	21.3	106	70-130	
Dibromochloromethane	ug/L	<0.26	20	22.6	113	62-118	
Dibromomethane	ug/L	<0.50	20	21.6	108	70-130	
Ethylbenzene	ug/L	<0.50	20	23.6	118	70-130	
Iodomethane	ug/L	<0.50	40	7.5 I	19	10-164	
Methylene Chloride	ug/L	<2.5	20	25.3	126	65-136	
Styrene	ug/L	<0.50	20	23.6	118	70-130	
Tetrachloroethene	ug/L	<0.50	20	18.7	94	64-134	
Toluene	ug/L	<0.50	20	24.1	121	70-130	
trans-1,2-Dichloroethene	ug/L	<0.50	20	22.5	112	68-127	
trans-1,3-Dichloropropene	ug/L	<0.25	20	23.5	117	65-121	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	20	15.8	79	42-129	
Trichloroethene	ug/L	<0.50	20	20.9	104	70-130	
Trichlorofluoromethane	ug/L	<0.50	20	18.8	94	65-135	
Vinyl acetate	ug/L	<1.0	20	17.8	89	60-144	
Vinyl chloride	ug/L	<0.50	20	18.6	93	68-131	
Xylene (Total)	ug/L	<1.0	60	71.2	119	70-130	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2682397

Parameter	Units	35430601001 Result	Dup Result	Max RPD	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	<0.50	0.50 U		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	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

SAMPLE DUPLICATE: 2682397

Parameter	Units	35430601001 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	<0.50	0.50 U		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	<0.50	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	<1.0	1.0 U		40	
1,2-Dichloroethane-d4 (S)	%	105	106	1	40	
4-Bromofluorobenzene (S)	%	94	94	0	40	
Toluene-d8 (S)	%	99	100	2	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 495569 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35430379004

METHOD BLANK: 2680686 Matrix: Water

Associated Lab Samples: 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	11/21/18 09:56	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,2,3-Trichloropropane	ug/L	0.59 U	2.0	0.59	11/21/18 09:56	
1,2-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
1,4-Dichlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	11/21/18 09:56	
2-Hexanone	ug/L	5.0 U	10.0	5.0	11/21/18 09:56	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	11/21/18 09:56	
Acetone	ug/L	10.0 U	20.0	10.0	11/21/18 09:56	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	11/21/18 09:56	
Benzene	ug/L	0.10 U	1.0	0.10	11/21/18 09:56	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	11/21/18 09:56	
Bromoform	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Bromomethane	ug/L	0.50 U	5.0	0.50	11/21/18 09:56	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	11/21/18 09:56	
Carbon tetrachloride	ug/L	0.50 U	3.0	0.50	11/21/18 09:56	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Chloroethane	ug/L	0.50 U	10.0	0.50	11/21/18 09:56	
Chloroform	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Chloromethane	ug/L	0.62 U	1.0	0.62	11/21/18 09:56	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/21/18 09:56	
Dibromochloromethane	ug/L	0.26 U	2.0	0.26	11/21/18 09:56	
Dibromomethane	ug/L	0.50 U	2.0	0.50	11/21/18 09:56	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Iodomethane	ug/L	0.50 U	10.0	0.50	11/21/18 09:56	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	11/21/18 09:56	
Styrene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Toluene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	11/21/18 09:56	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	11/21/18 09:56	
Trichloroethene	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

METHOD BLANK: 2680686

Matrix: Water

Associated Lab Samples: 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Vinyl acetate	ug/L	1.0 U	10.0	1.0	11/21/18 09:56	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	11/21/18 09:56	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	11/21/18 09:56	
1,2-Dichloroethane-d4 (S)	%	100	70-130		11/21/18 09:56	
4-Bromofluorobenzene (S)	%	105	70-130		11/21/18 09:56	
Toluene-d8 (S)	%	107	70-130		11/21/18 09:56	

LABORATORY CONTROL SAMPLE: 2680687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	26.3	131	70-130	J(L1)
1,1,1-Trichloroethane	ug/L	20	23.8	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.9	109	68-125	
1,1,2-Trichloroethane	ug/L	20	24.5	123	70-130	
1,1-Dichloroethane	ug/L	20	22.2	111	70-130	
1,1-Dichloroethene	ug/L	20	21.1	106	66-133	
1,2,3-Trichloropropane	ug/L	20	21.9	110	62-127	
1,2-Dichlorobenzene	ug/L	20	22.5	112	70-130	
1,2-Dichloroethane	ug/L	20	22.0	110	70-130	
1,2-Dichloropropane	ug/L	20	21.9	110	70-130	
1,4-Dichlorobenzene	ug/L	20	21.4	107	70-130	
2-Butanone (MEK)	ug/L	40	40.1	100	47-143	
2-Hexanone	ug/L	40	35.2	88	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	40	33.5	84	57-132	
Acetone	ug/L	40	39.8	99	46-148	
Acrylonitrile	ug/L	200	206	103	60-143	
Benzene	ug/L	20	22.9	115	70-130	
Bromochloromethane	ug/L	20	25.5	127	70-130	
Bromodichloromethane	ug/L	20	23.0	115	70-130	
Bromoform	ug/L	20	22.1	110	49-126	
Bromomethane	ug/L	20	27.4	137	10-165	
Carbon disulfide	ug/L	20	13.3	67	60-141	
Carbon tetrachloride	ug/L	20	23.6	118	63-126	
Chlorobenzene	ug/L	20	22.6	113	70-130	
Chloroethane	ug/L	20	16.3	81	71-142	
Chloroform	ug/L	20	22.2	111	70-130	
Chloromethane	ug/L	20	13.4	67	40-140	
cis-1,2-Dichloroethene	ug/L	20	21.1	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	70-130	
Dibromochloromethane	ug/L	20	20.8	104	62-118	
Dibromomethane	ug/L	20	27.7	139	70-130	J(L1)
Ethylbenzene	ug/L	20	21.9	109	70-130	
Iodomethane	ug/L	40	20.5	51	10-164	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

LABORATORY CONTROL SAMPLE: 2680687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	20	23.0	115	65-136	
Styrene	ug/L	20	21.9	110	70-130	
Tetrachloroethene	ug/L	20	26.0	130	64-134	
Toluene	ug/L	20	22.1	111	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.8	114	68-127	
trans-1,3-Dichloropropene	ug/L	20	20.1	100	65-121	
trans-1,4-Dichloro-2-butene	ug/L	20	15.3	76	42-129	
Trichloroethene	ug/L	20	24.3	122	70-130	
Trichlorofluoromethane	ug/L	20	14.5	72	65-135	
Vinyl acetate	ug/L	20	19.0	95	60-144	
Vinyl chloride	ug/L	20	15.8	79	68-131	
Xylene (Total)	ug/L	60	69.1	115	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			115	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 2682388

Parameter	Units	35430545003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.2	96	70-130	
1,1,1-Trichloroethane	ug/L	0.50 U	20	19.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	15.1	76	68-125	
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.5	88	70-130	
1,1-Dichloroethane	ug/L	0.50 U	20	17.9	90	70-130	
1,1-Dichloroethene	ug/L	0.50 U	20	16.3	82	66-133	
1,2,3-Trichloropropane	ug/L	0.59 U	20	14.8	74	62-127	
1,2-Dichlorobenzene	ug/L	0.50 U	20	17.3	86	70-130	
1,2-Dichloroethane	ug/L	0.50 U	20	16.3	82	70-130	
1,2-Dichloropropane	ug/L	0.50 U	20	16.5	82	70-130	
1,4-Dichlorobenzene	ug/L	0.50 U	20	16.8	84	70-130	
2-Butanone (MEK)	ug/L	5.0 U	40	24.7	62	47-143	
2-Hexanone	ug/L	5.0 U	40	23.5	59	48-145	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	24.1	60	57-132	
Acetone	ug/L	10.0 U	40	27.3	68	46-148	
Acrylonitrile	ug/L	5.0 U	200	205	102	60-143	
Benzene	ug/L	0.10 U	20	17.8	89	70-130	
Bromochloromethane	ug/L	0.50 U	20	21.2	106	70-130	
Bromodichloromethane	ug/L	0.27 U	20	16.6	83	70-130	
Bromoform	ug/L	0.50 U	20	15.8	79	49-126	
Bromomethane	ug/L	0.50 U	20	26.0	130	10-165	
Carbon disulfide	ug/L	5.0 U	20	12.4	62	60-141	
Carbon tetrachloride	ug/L	0.50 U	20	19.5	98	63-126	
Chlorobenzene	ug/L	0.50 U	20	17.4	87	70-130	
Chloroethane	ug/L	0.50 U	20	22.4	112	71-142	
Chloroform	ug/L	0.50 U	20	18.0	90	70-130	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE SAMPLE: 2682388

Parameter	Units	35430545003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	0.62 U	20	14.9	74	40-140	
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.4	87	70-130	
cis-1,3-Dichloropropene	ug/L	0.25 U	20	13.7	69	70-130 J(M1)	
Dibromochloromethane	ug/L	0.26 U	20	14.7	74	62-118	
Dibromomethane	ug/L	0.50 U	20	20.1	101	70-130	
Ethylbenzene	ug/L	0.50 U	20	17.2	86	70-130	
Iodomethane	ug/L	0.50 U	40	6.1 I	15	10-164	
Methylene Chloride	ug/L	2.5 U	20	17.8	89	65-136	
Styrene	ug/L	0.50 U	20	16.7	84	70-130	
Tetrachloroethene	ug/L	0.50 U	20	18.4	92	64-134	
Toluene	ug/L	0.50 U	20	17.4	87	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.2	91	68-127	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	13.9	70	65-121	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	10.3	52	42-129	
Trichloroethene	ug/L	0.50 U	20	18.5	92	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	16.3	81	65-135	
Vinyl acetate	ug/L	1.0 U	20	12.9	65	60-144	
Vinyl chloride	ug/L	0.50 U	20	18.0	90	68-131	
Xylene (Total)	ug/L	1.5 U	60	53.8	90	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				113	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 2682387

Parameter	Units	35430545002 Result	Dup Result	Max RPD	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	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

SAMPLE DUPLICATE: 2682387

Parameter	Units	35430545002 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	1.5 U	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	98	97	1	40	
4-Bromofluorobenzene (S)	%	103	104	0	40	
Toluene-d8 (S)	%	106	105	1	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492651 Analysis Method: EPA 8011

QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010

METHOD BLANK: 2664441 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007,
35429268008, 35429268009, 35429268010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/13/18 16:27	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/13/18 16:27	

LABORATORY CONTROL SAMPLE: 2664442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.24	95	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	98	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665490 2665491

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	0.44	0.44	0.51	0.53	117	122	60-140	4	40
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	0.44	0.44	0.52	0.53	120	122	60-140	2	40

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493342	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35429268011, 35429268012		

METHOD BLANK: 2668275 Matrix: Water

Associated Lab Samples: 35429268011, 35429268012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/14/18 02:01	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/14/18 02:01	

LABORATORY CONTROL SAMPLE: 2668276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	103	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2668539 2668540

Parameter	Units	35430002001 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	0.0064 U	0.44	0.44	0.49	0.51	113	116	60-140	3	40	
1,2-Dibromoethane (EDB)	ug/L	0.0076 U	0.44	0.44	0.53	0.52	120	118	60-140	2	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 493805 Analysis Method: EPA 8011

QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013, 35429580014

METHOD BLANK: 2670914 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013, 35429580014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/15/18 08:49	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/15/18 08:49	

LABORATORY CONTROL SAMPLE: 2670915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.5	0.47	94	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.5	0.45	91	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2671556 2671557

Parameter	Units	35430556001 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 U	0.25	0.25	0.31	0.32	123	130	60-140	5	40	
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	0.25	0.25	0.27	0.29	108	117	60-140	8	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493807	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006, 35429909007			

METHOD BLANK:	2670925	Matrix:	Water
Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006, 35429909007			

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/15/18 15:16	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/15/18 15:16	

LABORATORY CONTROL SAMPLE:	2670926	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.21	85	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.20	81	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2671558	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	0.25	0.25	0.32	0.32	129	129	60-140	1	40	
1,2-Dibromoethane (EDB)	ug/L	0.0073 U	0.25	0.25	0.30	0.31	121	124	60-140	3	40	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	495068	Analysis Method:	EPA 8011
QC Batch Method:	EPA 8011	Analysis Description:	8011 EDB DBCP
Associated Lab Samples:	35430379001, 35430379002, 35430379003, 35430379004, 35430379005		

METHOD BLANK: 2678119 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004, 35430379005

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
1,2-Dibromo-3-chloropropane	ug/L	0.0064 U	0.020	0.0064	11/20/18 23:23	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	11/20/18 23:23	

LABORATORY CONTROL SAMPLE: 2678120

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.24	98	60-140	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	98	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2678515 2678516

Parameter	Units	35431833003	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	RPD	RPD	Max
		Result	Spike	Spike									
1,2-Dibromo-3-chloropropane	ug/L	0.0062 U	0.44	0.44	0.53	0.53	121	122	60-140	1	40		
1,2-Dibromoethane (EDB)	ug/L	0.0072 U	0.44	0.44	0.54	0.54	123	123	60-140	0	40		

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492437 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005

METHOD BLANK: 2662940 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003, 35429268004, 35429268005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/09/18 14:43	

LABORATORY CONTROL SAMPLE: 2662941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2662943

Parameter	Units	35429032002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	481	483	0	5	

SAMPLE DUPLICATE: 2663618

Parameter	Units	35428875003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	966	962	0	5	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492918 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Diss. Solids Tampa

Associated Lab Samples: 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011, 35429580001,
35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008

METHOD BLANK: 2665799 Matrix: Water

Associated Lab Samples: 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011, 35429580001,
35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/12/18 14:48	

LABORATORY CONTROL SAMPLE: 2665800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	90-110	

SAMPLE DUPLICATE: 2665801

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	547	553	1	5	

SAMPLE DUPLICATE: 2666628

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	688	680	1	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493182	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Diss. Solids Tampa
Associated Lab Samples:	35429580009, 35429580010, 35429580011, 35429580012, 35429580013		

METHOD BLANK: 2667592 Matrix: Water

Associated Lab Samples: 35429580009, 35429580010, 35429580011, 35429580012, 35429580013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/13/18 15:09	

LABORATORY CONTROL SAMPLE: 2667593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	90-110	

SAMPLE DUPLICATE: 2667594

Parameter	Units	35429580009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	350	349	0	5	

SAMPLE DUPLICATE: 2667595

Parameter	Units	35429738002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	224	2	5	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	493575	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Diss. Solids Tampa
Associated Lab Samples:	35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006, 35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK:	2669621	Matrix:	Water
Associated Lab Samples:	35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006, 35430379001, 35430379002, 35430379003, 35430379004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	11/14/18 15:10	

LABORATORY CONTROL SAMPLE: 2669622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	90-110	

SAMPLE DUPLICATE: 2669623

Parameter	Units	35429854001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1050	1	5	

SAMPLE DUPLICATE: 2669624

Parameter	Units	35430379001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	305	300	2	5	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 493176 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids, Tampa

Associated Lab Samples: 35430379001

METHOD BLANK: 2667571 Matrix: Water

Associated Lab Samples: 35430379001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Suspended Solids	mg/L	1.0 U	1.0	1.0	11/13/18 10:16	

LABORATORY CONTROL SAMPLE & LCSD: 2667572 2667573

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	100	95.0	95.0	95	95	90-110	0	5	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 494336 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids, Tampa

Associated Lab Samples: 35430379002, 35430379003, 35430379004

METHOD BLANK: 2674126 Matrix: Water

Associated Lab Samples: 35430379002, 35430379003, 35430379004

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Total Suspended Solids	mg/L	1.0 U	1.0	1.0	11/16/18 10:11	

LABORATORY CONTROL SAMPLE & LCSD: 2674127 2674128

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits			
Total Suspended Solids	mg/L	100	96.0	95.0	96	95	90-110	1	5	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 493338 Analysis Method: SM 9222D

QC Batch Method: SM 9222D Analysis Description: 9222D MBIO Fecal Coliform Tampa

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

METHOD BLANK: 2668250 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	1.0 U	1.0	1.0	11/13/18 14:51	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	494220	Analysis Method:	EPA 1631E
QC Batch Method:	EPA 1631E	Analysis Description:	1631E Mercury,Low Level
Associated Lab Samples:	35430379001, 35430379002, 35430379004, 35430379006, 35430379007, 35430379008, 35430379009, 35430379010		

METHOD BLANK: 2673093 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379004, 35430379006, 35430379007, 35430379008, 35430379009, 35430379010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/16/18 11:23	

METHOD BLANK: 2673094 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379004, 35430379006, 35430379007, 35430379008, 35430379009, 35430379010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/16/18 11:28	

METHOD BLANK: 2673095 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379004, 35430379006, 35430379007, 35430379008, 35430379009, 35430379010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/16/18 11:33	

METHOD BLANK: 2673096 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379004, 35430379006, 35430379007, 35430379008, 35430379009, 35430379010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ng/L	0.25 U	0.50	0.25	11/16/18 11:38	

LABORATORY CONTROL SAMPLE: 2673097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.76	95	77-123	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2673105		2673106							
Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
			Spike Conc.	Spike Conc.								
Mercury	ng/L	1.95	5	5	6.21	6.98	85	101	71-125	12	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2673107		2673108							
Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
			Spike Conc.	Spike Conc.								
Mercury	ng/L	0.00025 U ug/L	0.5	0.5	0.620	0.631	93	96	71-125	2	24	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493203	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK: 2667651 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0	2.0	11/18/18 16:24	

LABORATORY CONTROL SAMPLE: 2667653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	199	209	105	85-115	

SAMPLE DUPLICATE: 2667654

Parameter	Units	35430379001 Result	Dup Result	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.0 U	2.0 U	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 493377 Analysis Method: SM10200

QC Batch Method: SM10200 Analysis Description: Chlorophyll & Pheophytin

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

METHOD BLANK: 2668461 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorophyll a	mg/m3	2.2 U	5.0	2.2	11/20/18 16:44	
Chlorophyll a (Corrected)	mg/m3	2.2 U	5.0	2.2	11/20/18 16:44	
Chlorophyll b	mg/m3	2.2 U	5.0	2.2	11/20/18 16:44	
Chlorophyll c	mg/m3	2.2 U	5.0	2.2	11/20/18 16:44	
Pheophytin	mg/m3	2.2 U	5.0	2.2	11/20/18 16:44	

LABORATORY CONTROL SAMPLE: 2668462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorophyll a	mg/m3	10	10.4	104	85-115	

SAMPLE DUPLICATE: 2668463

Parameter	Units	35430379001 Result	Dup Result	Max RPD	Qualifiers
Chlorophyll a	mg/m3	3.9 I	4.0 I	40	
Chlorophyll a (Corrected)	mg/m3	3.8 U	3.8 U	40	
Chlorophyll b	mg/m3	3.8 U	3.8 U	40	
Chlorophyll c	mg/m3	3.8 U	3.8 U	40	
Pheophytin	mg/m3	147	203	32	40

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	492122	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35429268008		

METHOD BLANK: 2661197 Matrix: Water

Associated Lab Samples: 35429268008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/08/18 09:42	

LABORATORY CONTROL SAMPLE: 2661198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661199 2661200

Parameter	Units	35428577001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	6.3	50	50	57.0	57.7	102	103	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661201 2661202

Parameter	Units	35429012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	24.3	50	50	75.0	75.3	101	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	492216	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268009, 35429268010, 35429268011		

METHOD BLANK:	2661540	Matrix:	Water
Associated Lab Samples:	35429268002, 35429268003, 35429268004, 35429268005, 35429268006, 35429268007, 35429268009, 35429268010, 35429268011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/08/18 14:56	

LABORATORY CONTROL SAMPLE: 2661542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.6	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661543 2661544

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	7.5	50	50	59.0	59.5	103	104	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2661545 2661546

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	8.9	50	50	63.1	63.8	108	110	90-110	1	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	492809	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35429268007		

METHOD BLANK: 2665446 Matrix: Water

Associated Lab Samples: 35429268007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/11/18 14:01	

LABORATORY CONTROL SAMPLE: 2665447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665448 2665449

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Chloride	mg/L	62.0	50	50	117	117	109	110	90-110	0	20	L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2666648 2666649

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Chloride	mg/L	422	250	250	680	685	103	105	90-110	1	20	L

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493955	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35429268001		

METHOD BLANK: 2671943	Matrix: Water
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Associated Lab Samples: 35429268001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/15/18 12:02	

LABORATORY CONTROL SAMPLE: 2671944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2672189 2672190

Parameter	Units	MS Result	MSD Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	3280	5000	5000	8630	8630	107	107	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2672191 2672192

Parameter	Units	MS Result	MSD Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	9.5	50	50	60.3	60.4	101	102	90-110	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	494381	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008, 35429580009, 35429580010, 35429580011, 35429580012		

METHOD BLANK: 2674233 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007,
35429580008, 35429580009, 35429580010, 35429580011, 35429580012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	11/16/18 16:32	

LABORATORY CONTROL SAMPLE: 2674234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674328 2674329

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	19.6	50	50	71.9	72.7	105	106	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674330 2674331

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chloride	mg/L	20.6	50	50	74.5	74.3	108	107	90-110	0	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 494409 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 35429580013, 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

METHOD BLANK: 2674334 Matrix: Water

Associated Lab Samples: 35429580013, 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
Chloride	mg/L	2.5 U	5.0	2.5	11/16/18 12:20	

LABORATORY CONTROL SAMPLE: 2674335

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Chloride	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674423 2674424

Parameter	Units	35429772001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max
		Result	Spike	Spike							
Chloride	mg/L	12.5	50	50	63.0	63.5	101	102	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2674425 2674426

Parameter	Units	35429873001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max
		Result	Spike	Spike							
Chloride	mg/L	9.1	50	50	58.7	59.7	99	101	90-110	2	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	492896	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013		

METHOD BLANK:	2665631	Matrix:	Water
Associated Lab Samples:	35429580001, 35429580002, 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008, 35429580009, 35429580010, 35429580011, 35429580012, 35429580013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/12/18 12:03	

LABORATORY CONTROL SAMPLE: 2665632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 2665634

Parameter	Units	35429503003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	1	1.1	95	90-110	

SAMPLE DUPLICATE: 2665633

Parameter	Units	35429503003 Result	Dup Result	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	0.11	1	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493106	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35429909001, 35429909002		

METHOD BLANK: 2667363 Matrix: Water

Associated Lab Samples: 35429909001, 35429909002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/13/18 10:41	

LABORATORY CONTROL SAMPLE: 2667364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2667366

Parameter	Units	35430400008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	7.8	1	8.7	88	90-110	J(M1)

SAMPLE DUPLICATE: 2667365

Parameter	Units	35430400008 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.8	7.8	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	493109	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35429909003, 35429909004, 35429909005, 35429909006, 35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK:	2667367	Matrix:	Water
Associated Lab Samples:	35429909003, 35429909004, 35429909005, 35429909006, 35430379001, 35430379002, 35430379003, 35430379004		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/13/18 11:36	

LABORATORY CONTROL SAMPLE: 2667368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2667370

Parameter	Units	35429909003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.3	1	3.3	101	90-110	

SAMPLE DUPLICATE: 2667369

Parameter	Units	35429909003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.3	2.3	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	493499	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35429268001, 35429268002, 35429268003		

METHOD BLANK: 2669401 Matrix: Water

Associated Lab Samples: 35429268001, 35429268002, 35429268003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/14/18 08:51	

LABORATORY CONTROL SAMPLE: 2669402

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

MATRIX SPIKE SAMPLE: 2669404

Parameter	Units	35430666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.95	1	2.0	100	90-110	

SAMPLE DUPLICATE: 2669403

Parameter	Units	35430666001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.95	0.95	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	493500	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35429268004, 35429268005, 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011		

METHOD BLANK:	2669405	Matrix:	Water
Associated Lab Samples:	35429268004, 35429268005, 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.035 U	0.050	0.035	11/14/18 09:43	

LABORATORY CONTROL SAMPLE: 2669406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 2669408

Parameter	Units	35429268004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.19	1	1.2	98	90-110	

SAMPLE DUPLICATE: 2669407

Parameter	Units	35429268004 Result	Dup Result	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.19	0.20	3	20

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 496573 Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

METHOD BLANK: 2685104 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	11/28/18 12:42	

LABORATORY CONTROL SAMPLE: 2685105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	20.5	103	90-110	

MATRIX SPIKE SAMPLE: 2685107

Parameter	Units	35430410002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	3.6	20	24.8	106	90-110	

MATRIX SPIKE SAMPLE: 2685109

Parameter	Units	35431711001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	886	80	944	72	90-110	M6

SAMPLE DUPLICATE: 2685106

Parameter	Units	35430410002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	3.6	3.7	4	20	

SAMPLE DUPLICATE: 2685108

Parameter	Units	35431711001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	886	986	11	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	492007	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35429268001			

METHOD BLANK: 2660845 Matrix: Water

Associated Lab Samples: 35429268001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/08/18 07:34	

SAMPLE DUPLICATE: 2660847

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.77	0.78	1	20	

SAMPLE DUPLICATE: 2660849

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492010

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 35429268002, 35429268003

METHOD BLANK: 2660866

Matrix: Water

Associated Lab Samples: 35429268002, 35429268003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/08/18 09:47	

SAMPLE DUPLICATE: 2660868

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	2.1	2.1	1	20	

SAMPLE DUPLICATE: 2660870

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	4.2	4.1	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	492012	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	35429268004, 35429268005, 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011		

METHOD BLANK:	2660872	Matrix:	Water
Associated Lab Samples:	35429268004, 35429268005, 35429268006, 35429268007, 35429268008, 35429268009, 35429268010, 35429268011		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/08/18 10:29	

SAMPLE DUPLICATE: 2660874

Parameter	Units	35429222006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2660876

Parameter	Units	35429258003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492386 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 35429580001, 35429580002

METHOD BLANK: 2662746 Matrix: Water

Associated Lab Samples: 35429580001, 35429580002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/09/18 08:45	

SAMPLE DUPLICATE: 2662748

Parameter	Units	35429683001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 2662750

Parameter	Units	35429560001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	492387	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008, 35429580009

METHOD BLANK: 2662752 Matrix: Water

Associated Lab Samples: 35429580003, 35429580004, 35429580005, 35429580006, 35429580007, 35429580008, 35429580009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/09/18 09:16	

SAMPLE DUPLICATE: 2662754

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	16.6	16.5	0	20	

SAMPLE DUPLICATE: 2662756

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	<0.025	0.025 U		20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 492388 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 35429580010, 35429580011, 35429580012, 35429580013

METHOD BLANK: 2662758 Matrix: Water

Associated Lab Samples: 35429580010, 35429580011, 35429580012, 35429580013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/09/18 10:04	

SAMPLE DUPLICATE: 2662760

Parameter	Units	35429580010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 I		20	

SAMPLE DUPLICATE: 2662762

Parameter	Units	35429595003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

QC Batch:	492700	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006		

METHOD BLANK: 2664988 Matrix: Water

Associated Lab Samples: 35429909001, 35429909002, 35429909003, 35429909004, 35429909005, 35429909006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/10/18 07:00	

SAMPLE DUPLICATE: 2664990

Parameter	Units	35429726002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.71	0.71	0	20	

SAMPLE DUPLICATE: 2665029

Parameter	Units	35429912003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 493113 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

METHOD BLANK: 2667375 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	11/13/18 07:24	
Nitrogen, NO ₂ plus NO ₃	mg/L	0.033 U	0.050	0.033	11/13/18 07:24	

LABORATORY CONTROL SAMPLE: 2667376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 2667378

Parameter	Units	35430280005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	3.8	10	14.4	106	90-110	

MATRIX SPIKE SAMPLE: 2667380

Parameter	Units	35430260001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	0.17	2	2.2	100	90-110	

SAMPLE DUPLICATE: 2667377

Parameter	Units	35430280005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	1.3	1.5	9	20	
Nitrogen, NO ₂ plus NO ₃	mg/L	3.8	4.0	5	20	

SAMPLE DUPLICATE: 2667379

Parameter	Units	35430260001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.17	0.17	0	20	
Nitrogen, NO ₂ plus NO ₃	mg/L	0.17	0.17	0	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	496586	Analysis Method:	EPA 365.4
QC Batch Method:	EPA 365.4	Analysis Description:	365.4 Phosphorus
Associated Lab Samples:	35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK: 2685157 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	11/28/18 14:42	

LABORATORY CONTROL SAMPLE: 2685159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.9	99	90-110	

MATRIX SPIKE SAMPLE: 2685161

Parameter	Units	35430410002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.48	4	4.6	102	80-120	

MATRIX SPIKE SAMPLE: 2686005

Parameter	Units	35431711001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	302	16	329	169	80-120	M6

SAMPLE DUPLICATE: 2685160

Parameter	Units	35430410002 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.48	0.53	8	20	

SAMPLE DUPLICATE: 2686004

Parameter	Units	35431711001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	302	356	16	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 493959 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35430379001

METHOD BLANK: 2671960 Matrix: Water

Associated Lab Samples: 35430379001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	11/19/18 09:01	

LABORATORY CONTROL SAMPLE: 2671961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	494	508	103	90-110	

MATRIX SPIKE SAMPLE: 2671963

Parameter	Units	35430723001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	47.3	494	559	104	90-110	

MATRIX SPIKE SAMPLE: 2671965

Parameter	Units	35431077001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	66.7	494	544	97	90-110	

SAMPLE DUPLICATE: 2671962

Parameter	Units	35430723001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	47.3	51.5	9	20	

SAMPLE DUPLICATE: 2671964

Parameter	Units	35431077001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	66.7	51.4	26	20	J(D6)

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch: 494858 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 35430379002, 35430379003, 35430379004

METHOD BLANK: 2676858 Matrix: Water

Associated Lab Samples: 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5 U	20.0	12.5	11/19/18 15:18	

LABORATORY CONTROL SAMPLE: 2676859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	494	514	104	90-110	

MATRIX SPIKE SAMPLE: 2676861

Parameter	Units	92406927001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1680	2470	4050	96	90-110	

MATRIX SPIKE SAMPLE: 2676863

Parameter	Units	35431392004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	440	494	932	100	90-110	

SAMPLE DUPLICATE: 2676860

Parameter	Units	92406927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1680	1650	2	20	

SAMPLE DUPLICATE: 2676862

Parameter	Units	35431392004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	440	442	1	20	

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QUALITY CONTROL DATA

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

QC Batch:	495563	Analysis Method:	SM 5310B
QC Batch Method:	SM 5310B	Analysis Description:	5310B TOC
Associated Lab Samples:	35430379001, 35430379002, 35430379003, 35430379004		

METHOD BLANK: 2680657 Matrix: Water

Associated Lab Samples: 35430379001, 35430379002, 35430379003, 35430379004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50 U	1.0	0.50	11/21/18 18:17	

LABORATORY CONTROL SAMPLE: 2680658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	19.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2680659 2680660

Parameter	Units	35431371003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	0.84 I	20	20	20.5	20.5	98	98	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2680661 2680662

Parameter	Units	35431787006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	7.3	20	20	26.4	26.4	96	95	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

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QUALIFIERS

Project: Lena Rd Landfill (Existing)
 Pace Project No.: 35429268

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(L1) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- J(M0) Estimated Value. Matrix spike recovery was outside laboratory control limits.
- J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- L Off-scale high. Actual value is known to be greater than value given.
- M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429268001	GW-25				
35429268002	GW-26				
35429268003	GW-27				
35429268004	GW-3				
35429268005	GW-4				
35429268006	GW-5				
35429268007	GW-6				
35429268009	GW-7				
35429268010	GW-7 Dup				
35429268011	GW-8				
35429580001	GW-9				
35429580002	GW-10				
35429580003	GW-11				
35429580004	GW-12				
35429580005	GW-13				
35429580006	GW-14				
35429580007	BGW-1				
35429580008	GW-15				
35429580009	GW-16				
35429580010	GW-17				
35429580011	GW-18				
35429580013	GW-15 Dup				
35429909001	GW-20				
35429909002	GW-21				
35429909003	GW-22				
35429909004	GW-23				
35429909005	GW-24				
35429909006	GW-19				
35430379001	SW-1				
35430379002	SW-2				
35430379003	SW-1 Dup				
35429268001	GW-25	EPA 8011	492651	EPA 8011	493006
35429268002	GW-26	EPA 8011	492651	EPA 8011	493006
35429268003	GW-27	EPA 8011	492651	EPA 8011	493006
35429268004	GW-3	EPA 8011	492651	EPA 8011	493006
35429268005	GW-4	EPA 8011	492651	EPA 8011	493006
35429268006	GW-5	EPA 8011	492651	EPA 8011	493006
35429268007	GW-6	EPA 8011	492651	EPA 8011	493006
35429268008	EQ Blank 1	EPA 8011	492651	EPA 8011	493006
35429268009	GW-7	EPA 8011	492651	EPA 8011	493006
35429268010	GW-7 Dup	EPA 8011	492651	EPA 8011	493006
35429268011	GW-8	EPA 8011	493342	EPA 8011	493455
35429268012	Trip Blank 1	EPA 8011	493342	EPA 8011	493455
35429580001	GW-9	EPA 8011	493805	EPA 8011	493884
35429580002	GW-10	EPA 8011	493805	EPA 8011	493884
35429580003	GW-11	EPA 8011	493805	EPA 8011	493884
35429580004	GW-12	EPA 8011	493805	EPA 8011	493884

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429580005	GW-13	EPA 8011	493805	EPA 8011	493884
35429580006	GW-14	EPA 8011	493805	EPA 8011	493884
35429580007	BGW-1	EPA 8011	493805	EPA 8011	493884
35429580008	GW-15	EPA 8011	493805	EPA 8011	493884
35429580009	GW-16	EPA 8011	493805	EPA 8011	493884
35429580010	GW-17	EPA 8011	493805	EPA 8011	493884
35429580011	GW-18	EPA 8011	493805	EPA 8011	493884
35429580012	Equip Blank 2	EPA 8011	493805	EPA 8011	493884
35429580013	GW-15 Dup	EPA 8011	493805	EPA 8011	493884
35429580014	Trip Blank 2	EPA 8011	493805	EPA 8011	493884
35429909001	GW-20	EPA 8011	493807	EPA 8011	493885
35429909002	GW-21	EPA 8011	493807	EPA 8011	493885
35429909003	GW-22	EPA 8011	493807	EPA 8011	493885
35429909004	GW-23	EPA 8011	493807	EPA 8011	493885
35429909005	GW-24	EPA 8011	493807	EPA 8011	493885
35429909006	GW-19	EPA 8011	493807	EPA 8011	493885
35429909007	Trip Blank 3	EPA 8011	493807	EPA 8011	493885
35430379001	SW-1	EPA 8011	495068	EPA 8011	495324
35430379002	SW-2	EPA 8011	495068	EPA 8011	495324
35430379003	SW-1 Dup	EPA 8011	495068	EPA 8011	495324
35430379004	Field Blank	EPA 8011	495068	EPA 8011	495324
35430379005	Trip Blank 4	EPA 8011	495068	EPA 8011	495324
35429268001	GW-25	EPA 3010	492355	EPA 6010	492393
35429268002	GW-26	EPA 3010	492355	EPA 6010	492393
35429268003	GW-27	EPA 3010	492355	EPA 6010	492393
35429268004	GW-3	EPA 3010	492355	EPA 6010	492393
35429268005	GW-4	EPA 3010	492355	EPA 6010	492393
35429268006	GW-5	EPA 3010	492355	EPA 6010	492393
35429268007	GW-6	EPA 3010	492355	EPA 6010	492393
35429268008	EQ Blank 1	EPA 3010	492355	EPA 6010	492393
35429268009	GW-7	EPA 3010	492355	EPA 6010	492393
35429268010	GW-7 Dup	EPA 3010	492355	EPA 6010	492393
35429268011	GW-8	EPA 3010	492355	EPA 6010	492393
35429580001	GW-9	EPA 3010	494589	EPA 6010	494590
35429580002	GW-10	EPA 3010	494589	EPA 6010	494590
35429580003	GW-11	EPA 3010	494589	EPA 6010	494590
35429580004	GW-12	EPA 3010	494589	EPA 6010	494590
35429580005	GW-13	EPA 3010	494589	EPA 6010	494590
35429580006	GW-14	EPA 3010	494589	EPA 6010	494590
35429580007	BGW-1	EPA 3010	494589	EPA 6010	494590
35429580008	GW-15	EPA 3010	494589	EPA 6010	494590
35429580009	GW-16	EPA 3010	494589	EPA 6010	494590
35429580010	GW-17	EPA 3010	494589	EPA 6010	494590
35429580011	GW-18	EPA 3010	494589	EPA 6010	494590
35429580012	Equip Blank 2	EPA 3010	494589	EPA 6010	494590
35429580013	GW-15 Dup	EPA 3010	494589	EPA 6010	494590

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429909001	GW-20	EPA 3010	495882	EPA 6010	495883
35429909002	GW-21	EPA 3010	495882	EPA 6010	495883
35429909003	GW-22	EPA 3010	495882	EPA 6010	495883
35429909004	GW-23	EPA 3010	495882	EPA 6010	495883
35429909005	GW-24	EPA 3010	495882	EPA 6010	495883
35429909006	GW-19	EPA 3010	495882	EPA 6010	495883
35430379001	SW-1	EPA 3010	494274	EPA 6010	494396
35430379002	SW-2	EPA 3010	494274	EPA 6010	494396
35430379003	SW-1 Dup	EPA 3010	494274	EPA 6010	494396
35430379004	Field Blank	EPA 3010	494274	EPA 6010	494396
35429268001	GW-25	EPA 3010	492354	EPA 6020	492391
35429268002	GW-26	EPA 3010	492354	EPA 6020	492391
35429268003	GW-27	EPA 3010	492354	EPA 6020	492391
35429268004	GW-3	EPA 3010	492354	EPA 6020	492391
35429268005	GW-4	EPA 3010	492354	EPA 6020	492391
35429268006	GW-5	EPA 3010	492354	EPA 6020	492391
35429268007	GW-6	EPA 3010	492354	EPA 6020	492391
35429268008	EQ Blank 1	EPA 3010	492354	EPA 6020	492391
35429268009	GW-7	EPA 3010	492354	EPA 6020	492391
35429268010	GW-7 Dup	EPA 3010	492354	EPA 6020	492391
35429268011	GW-8	EPA 3010	492354	EPA 6020	492391
35429580001	GW-9	EPA 3010	494588	EPA 6020	494591
35429580002	GW-10	EPA 3010	494588	EPA 6020	494591
35429580003	GW-11	EPA 3010	494588	EPA 6020	494591
35429580004	GW-12	EPA 3010	494588	EPA 6020	494591
35429580005	GW-13	EPA 3010	494588	EPA 6020	494591
35429580006	GW-14	EPA 3010	494588	EPA 6020	494591
35429580007	BGW-1	EPA 3010	494588	EPA 6020	494591
35429580008	GW-15	EPA 3010	494588	EPA 6020	494591
35429580009	GW-16	EPA 3010	494588	EPA 6020	494591
35429580010	GW-17	EPA 3010	494588	EPA 6020	494591
35429580011	GW-18	EPA 3010	494588	EPA 6020	494591
35429580012	Equip Blank 2	EPA 3010	494588	EPA 6020	494591
35429580013	GW-15 Dup	EPA 3010	494588	EPA 6020	494591
35429909001	GW-20	EPA 3010	495881	EPA 6020	495884
35429909002	GW-21	EPA 3010	495881	EPA 6020	495884
35429909003	GW-22	EPA 3010	495881	EPA 6020	495884
35429909004	GW-23	EPA 3010	495881	EPA 6020	495884
35429909005	GW-24	EPA 3010	495881	EPA 6020	495884
35429909006	GW-19	EPA 3010	495881	EPA 6020	495884
35430379001	SW-1	EPA 3010	495243	EPA 6020	495391
35430379002	SW-2	EPA 3010	495243	EPA 6020	495391
35430379003	SW-1 Dup	EPA 3010	495243	EPA 6020	495391
35430379004	Field Blank	EPA 3010	495243	EPA 6020	495391
35429268001	GW-25	EPA 7470	494009	EPA 7470	494183
35429268002	GW-26	EPA 7470	494009	EPA 7470	494183

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429268003	GW-27	EPA 7470	494009	EPA 7470	494183
35429268004	GW-3	EPA 7470	494009	EPA 7470	494183
35429268005	GW-4	EPA 7470	494009	EPA 7470	494183
35429268006	GW-5	EPA 7470	494009	EPA 7470	494183
35429268007	GW-6	EPA 7470	494009	EPA 7470	494183
35429268008	EQ Blank 1	EPA 7470	494009	EPA 7470	494183
35429268009	GW-7	EPA 7470	494009	EPA 7470	494183
35429268010	GW-7 Dup	EPA 7470	494009	EPA 7470	494183
35429268011	GW-8	EPA 7470	494009	EPA 7470	494183
35429580001	GW-9	EPA 7470	495344	EPA 7470	495728
35429580002	GW-10	EPA 7470	495344	EPA 7470	495728
35429580003	GW-11	EPA 7470	495344	EPA 7470	495728
35429580004	GW-12	EPA 7470	495344	EPA 7470	495728
35429580005	GW-13	EPA 7470	495344	EPA 7470	495728
35429580006	GW-14	EPA 7470	495344	EPA 7470	495728
35429580007	BGW-1	EPA 7470	495344	EPA 7470	495728
35429580008	GW-15	EPA 7470	495344	EPA 7470	495728
35429580009	GW-16	EPA 7470	495344	EPA 7470	495728
35429580010	GW-17	EPA 7470	495346	EPA 7470	495730
35429580011	GW-18	EPA 7470	495346	EPA 7470	495730
35429580012	Equip Blank 2	EPA 7470	495346	EPA 7470	495730
35429580013	GW-15 Dup	EPA 7470	495346	EPA 7470	495730
35429909001	GW-20	EPA 7470	495348	EPA 7470	495769
35429909002	GW-21	EPA 7470	495348	EPA 7470	495769
35429909003	GW-22	EPA 7470	495348	EPA 7470	495769
35429909004	GW-23	EPA 7470	495348	EPA 7470	495769
35429909005	GW-24	EPA 7470	495348	EPA 7470	495769
35429909006	GW-19	EPA 7470	495348	EPA 7470	495769
35429268001	GW-25	EPA 8260	494385		
35429268002	GW-26	EPA 8260	494385		
35429268003	GW-27	EPA 8260	494385		
35429268004	GW-3	EPA 8260	494385		
35429268005	GW-4	EPA 8260	494385		
35429268006	GW-5	EPA 8260	494385		
35429268007	GW-6	EPA 8260	494385		
35429268008	EQ Blank 1	EPA 8260	494385		
35429268009	GW-7	EPA 8260	494385		
35429268010	GW-7 Dup	EPA 8260	494385		
35429268011	GW-8	EPA 8260	494385		
35429580001	GW-9	EPA 8260	494429		
35429580002	GW-10	EPA 8260	494429		
35429580003	GW-11	EPA 8260	494429		
35429580004	GW-12	EPA 8260	494429		
35429580005	GW-13	EPA 8260	494434		
35429580006	GW-14	EPA 8260	494434		
35429580007	BGW-1	EPA 8260	494434		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429580008	GW-15	EPA 8260	494434		
35429580009	GW-16	EPA 8260	494434		
35429580010	GW-17	EPA 8260	494434		
35429580011	GW-18	EPA 8260	494434		
35429580012	Equip Blank 2	EPA 8260	494434		
35429580013	GW-15 Dup	EPA 8260	494434		
35429909001	GW-20	EPA 8260	494435		
35429909002	GW-21	EPA 8260	494435		
35429909003	GW-22	EPA 8260	494435		
35429909004	GW-23	EPA 8260	494435		
35429909005	GW-24	EPA 8260	494435		
35429909006	GW-19	EPA 8260	494435		
35430379001	SW-1	EPA 8260	495547		
35430379002	SW-2	EPA 8260	495547		
35430379003	SW-1 Dup	EPA 8260	495547		
35430379004	Field Blank	EPA 8260	495569		
35429268001	GW-25	SM 2540C	492437		
35429268002	GW-26	SM 2540C	492437		
35429268003	GW-27	SM 2540C	492437		
35429268004	GW-3	SM 2540C	492437		
35429268005	GW-4	SM 2540C	492437		
35429268006	GW-5	SM 2540C	492918		
35429268007	GW-6	SM 2540C	492918		
35429268008	EQ Blank 1	SM 2540C	492918		
35429268009	GW-7	SM 2540C	492918		
35429268010	GW-7 Dup	SM 2540C	492918		
35429268011	GW-8	SM 2540C	492918		
35429580001	GW-9	SM 2540C	492918		
35429580002	GW-10	SM 2540C	492918		
35429580003	GW-11	SM 2540C	492918		
35429580004	GW-12	SM 2540C	492918		
35429580005	GW-13	SM 2540C	492918		
35429580006	GW-14	SM 2540C	492918		
35429580007	BGW-1	SM 2540C	492918		
35429580008	GW-15	SM 2540C	492918		
35429580009	GW-16	SM 2540C	493182		
35429580010	GW-17	SM 2540C	493182		
35429580011	GW-18	SM 2540C	493182		
35429580012	Equip Blank 2	SM 2540C	493182		
35429580013	GW-15 Dup	SM 2540C	493182		
35429909001	GW-20	SM 2540C	493575		
35429909002	GW-21	SM 2540C	493575		
35429909003	GW-22	SM 2540C	493575		
35429909004	GW-23	SM 2540C	493575		
35429909005	GW-24	SM 2540C	493575		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429909006	GW-19	SM 2540C	493575		
35430379001	SW-1	SM 2540C	493575		
35430379002	SW-2	SM 2540C	493575		
35430379003	SW-1 Dup	SM 2540C	493575		
35430379004	Field Blank	SM 2540C	493575		
35430379001	SW-1	SM 2540D	493176		
35430379002	SW-2	SM 2540D	494336		
35430379003	SW-1 Dup	SM 2540D	494336		
35430379004	Field Blank	SM 2540D	494336		
35430379001	SW-1	SM 9222D	493338	SM 9222D	493339
35430379002	SW-2	SM 9222D	493338	SM 9222D	493339
35430379003	SW-1 Dup	SM 9222D	493338	SM 9222D	493339
35430379004	Field Blank	SM 9222D	493338	SM 9222D	493339
35430379001	SW-1	EPA 1631E	494220	EPA 1631E	494488
35430379002	SW-2	EPA 1631E	494220	EPA 1631E	494488
35430379004	Field Blank	EPA 1631E	494220	EPA 1631E	494488
35430379006	SW-1 LL Hg Field Blank	EPA 1631E	494220	EPA 1631E	494488
35430379007	SW-2 LL Hg Field Blank	EPA 1631E	494220	EPA 1631E	494488
35430379008	Field Blank LL Hg Dup	EPA 1631E	494220	EPA 1631E	494488
35430379009	Field Blank Hg Dup Field Blank	EPA 1631E	494220	EPA 1631E	494488
35430379010	Field Blank LL Hg Field Blank	EPA 1631E	494220	EPA 1631E	494488
35430379001	SW-1	SM 5210B	493203	SM 5210B	494805
35430379002	SW-2	SM 5210B	493203	SM 5210B	494805
35430379003	SW-1 Dup	SM 5210B	493203	SM 5210B	494805
35430379004	Field Blank	SM 5210B	493203	SM 5210B	494805
35430379001	SW-1	SM10200	493377	SM10200	495213
35430379002	SW-2	SM10200	493377	SM10200	495213
35430379003	SW-1 Dup	SM10200	493377	SM10200	495213
35430379004	Field Blank	SM10200	493377	SM10200	495213
35430379001	SW-1	TKN+NOx Calculation	498424		
35430379002	SW-2	TKN+NOx Calculation	498424		
35430379003	SW-1 Dup	TKN+NOx Calculation	498424		
35430379004	Field Blank	TKN+NOx Calculation	498424		
35429268001	GW-25	EPA 300.0	493955		
35429268002	GW-26	EPA 300.0	492216		
35429268003	GW-27	EPA 300.0	492216		
35429268004	GW-3	EPA 300.0	492216		
35429268005	GW-4	EPA 300.0	492216		
35429268006	GW-5	EPA 300.0	492216		
35429268007	GW-6	EPA 300.0	492809		
35429268008	EQ Blank 1	EPA 300.0	492122		
35429268009	GW-7	EPA 300.0	492216		
35429268010	GW-7 Dup	EPA 300.0	492216		

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Project: Lena Rd Landfill (Existing)

Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429268011	GW-8	EPA 300.0	492216		
35429580001	GW-9	EPA 300.0	494381		
35429580002	GW-10	EPA 300.0	494381		
35429580003	GW-11	EPA 300.0	494381		
35429580004	GW-12	EPA 300.0	494381		
35429580005	GW-13	EPA 300.0	494381		
35429580006	GW-14	EPA 300.0	494381		
35429580007	BGW-1	EPA 300.0	494381		
35429580008	GW-15	EPA 300.0	494381		
35429580009	GW-16	EPA 300.0	494381		
35429580010	GW-17	EPA 300.0	494381		
35429580011	GW-18	EPA 300.0	494381		
35429580012	Equip Blank 2	EPA 300.0	494381		
35429580013	GW-15 Dup	EPA 300.0	494409		
35429909001	GW-20	EPA 300.0	494409		
35429909002	GW-21	EPA 300.0	494409		
35429909003	GW-22	EPA 300.0	494409		
35429909004	GW-23	EPA 300.0	494409		
35429909005	GW-24	EPA 300.0	494409		
35429909006	GW-19	EPA 300.0	494409		
35429268001	GW-25	EPA 350.1	493499		
35429268002	GW-26	EPA 350.1	493499		
35429268003	GW-27	EPA 350.1	493499		
35429268004	GW-3	EPA 350.1	493500		
35429268005	GW-4	EPA 350.1	493500		
35429268006	GW-5	EPA 350.1	493500		
35429268007	GW-6	EPA 350.1	493500		
35429268008	EQ Blank 1	EPA 350.1	493500		
35429268009	GW-7	EPA 350.1	493500		
35429268010	GW-7 Dup	EPA 350.1	493500		
35429268011	GW-8	EPA 350.1	493500		
35429580001	GW-9	EPA 350.1	492896		
35429580002	GW-10	EPA 350.1	492896		
35429580003	GW-11	EPA 350.1	492896		
35429580004	GW-12	EPA 350.1	492896		
35429580005	GW-13	EPA 350.1	492896		
35429580006	GW-14	EPA 350.1	492896		
35429580007	BGW-1	EPA 350.1	492896		
35429580008	GW-15	EPA 350.1	492896		
35429580009	GW-16	EPA 350.1	492896		
35429580010	GW-17	EPA 350.1	492896		
35429580011	GW-18	EPA 350.1	492896		
35429580012	Equip Blank 2	EPA 350.1	492896		
35429580013	GW-15 Dup	EPA 350.1	492896		
35429909001	GW-20	EPA 350.1	493106		
35429909002	GW-21	EPA 350.1	493106		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35429909003	GW-22	EPA 350.1	493109		
35429909004	GW-23	EPA 350.1	493109		
35429909005	GW-24	EPA 350.1	493109		
35429909006	GW-19	EPA 350.1	493109		
35430379001	SW-1	EPA 350.1	493109		
35430379002	SW-2	EPA 350.1	493109		
35430379003	SW-1 Dup	EPA 350.1	493109		
35430379004	Field Blank	EPA 350.1	493109		
35430379001	SW-1	EPA 351.2	496573	EPA 351.2	496833
35430379002	SW-2	EPA 351.2	496573	EPA 351.2	496833
35430379003	SW-1 Dup	EPA 351.2	496573	EPA 351.2	496833
35430379004	Field Blank	EPA 351.2	496573	EPA 351.2	496833
35429268001	GW-25	EPA 353.2	492007		
35429268002	GW-26	EPA 353.2	492010		
35429268003	GW-27	EPA 353.2	492010		
35429268004	GW-3	EPA 353.2	492012		
35429268005	GW-4	EPA 353.2	492012		
35429268006	GW-5	EPA 353.2	492012		
35429268007	GW-6	EPA 353.2	492012		
35429268008	EQ Blank 1	EPA 353.2	492012		
35429268009	GW-7	EPA 353.2	492012		
35429268010	GW-7 Dup	EPA 353.2	492012		
35429268011	GW-8	EPA 353.2	492012		
35429580001	GW-9	EPA 353.2	492386		
35429580002	GW-10	EPA 353.2	492386		
35429580003	GW-11	EPA 353.2	492387		
35429580004	GW-12	EPA 353.2	492387		
35429580005	GW-13	EPA 353.2	492387		
35429580006	GW-14	EPA 353.2	492387		
35429580007	BGW-1	EPA 353.2	492387		
35429580008	GW-15	EPA 353.2	492387		
35429580009	GW-16	EPA 353.2	492387		
35429580010	GW-17	EPA 353.2	492388		
35429580011	GW-18	EPA 353.2	492388		
35429580012	Equip Blank 2	EPA 353.2	492388		
35429580013	GW-15 Dup	EPA 353.2	492388		
35429909001	GW-20	EPA 353.2	492700		
35429909002	GW-21	EPA 353.2	492700		
35429909003	GW-22	EPA 353.2	492700		
35429909004	GW-23	EPA 353.2	492700		
35429909005	GW-24	EPA 353.2	492700		
35429909006	GW-19	EPA 353.2	492700		
35430379001	SW-1	EPA 353.2	493113		
35430379002	SW-2	EPA 353.2	493113		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lena Rd Landfill (Existing)
Pace Project No.: 35429268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35430379003	SW-1 Dup	EPA 353.2	493113		
35430379004	Field Blank	EPA 353.2	493113		
35430379001	SW-1	EPA 365.4	496586	EPA 365.4	496837
35430379002	SW-2	EPA 365.4	496586	EPA 365.4	496837
35430379003	SW-1 Dup	EPA 365.4	496586	EPA 365.4	496837
35430379004	Field Blank	EPA 365.4	496586	EPA 365.4	496837
35430379001	SW-1	EPA 410.4	493959	EPA 410.4	495024
35430379002	SW-2	EPA 410.4	494858	EPA 410.4	495025
35430379003	SW-1 Dup	EPA 410.4	494858	EPA 410.4	495025
35430379004	Field Blank	EPA 410.4	494858	EPA 410.4	495025
35430379001	SW-1	SM 5310B	495563		
35430379002	SW-2	SM 5310B	495563		
35430379003	SW-1 Dup	SM 5310B	495563		
35430379004	Field Blank	SM 5310B	495563		
35430379001	SW-1	FLDEP SOP 10/03/83	496791		
35430379002	SW-2	FLDEP SOP 10/03/83	496791		
35430379003	SW-1 Dup	FLDEP SOP 10/03/83	496791		
35430379004	Field Blank	FLDEP SOP 10/03/83	496791		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request

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

WO# : 35429268

Section A

Required Client Information:
 Company: Manatee County Landfill
 Address: 333 Lena Road
 Bradenton, FL 34211
 Email:
 Phone:
 Requested Due Date:

Section B

Required Project Information:
 Report To: Bob Bennett
 Copy To:
 Purchase Order #:
 Project Name: Lena Rd Landfill (Existing Wells)

Section C

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: cameron.maynard@pacelabs.com
 Pace Profile #: 8100 Line 1



FL

State / Location

Regulatory Agency

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, !, ?) Sample Ids must be unique	COLLECTED				Preservatives	Analyses Test	Y/N	Requested Analysis Filtered (Y/N)
		DATE	TIME	DATE	TIME				
1	GW-25								
2	GW-26								
3	GW-27								
4	GW-3								
5	GW-4								
6	GW-5								
7	GW-6								
8	CQ								
9	GW-7								
10	DW								
11	GW-8								
12	-1218 BLANK								
ADDITIONAL COMMENTS		REPROVISED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS			
pH, Temp, Spec Cond, DO, Turbidity, Color and Sheen by observation		4.50/5.50 PACE 11-7-18 1830		mc Pace		4/7/18 1830		2.5 4 2 4	
TEMP in C									
Received on Ice (Y/N)									
Custody Sealed Cooler (Y/N)									
Samples Intact (Y/N)									

PRINT Name of SAMPLER: JEFFREY BOSSES
SIGNATURE of SAMPLER: J. BOSSERS
DATE Signed: 11-7-18



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 # WO# : 35429268

Project Manager: PM: CEM Due Date: 11/26/18
Client: MANCOU-SW

Date and Initials of person:

Examining contents: mvl

Label: 11/7/18

Deliver:

pH:

Thermometer Used: T-202 Date: 11/7/18 Time: 1830 Initials: mvl

State of Origin: FL

For WV projects, all containers verified to ≤ 8 °C

Cooler #1 Temp. °C 5.0 (Visual) 0.0 (Correction Factor) 5.0 (Actual)

Samples on ice, cooling process has begun

Cooler #2 Temp. °C 2.4 (Visual) 0.0 (Correction Factor) 2.4 (Actual)

Samples on ice, cooling process has begun

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (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: FedEx 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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments): Trip Blank in cooler with samples EQ, DW, GW-7, GW-8, GW-5

Project Manager Review: _____

Date: _____



Document Name:
Groundwater Sampling Log

Document Revised:
December 03, 2012
Issuing Authority:
Broward County Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME:	LENA RD LF	SITE LOCATION:	3333 LEA RD BRAZENON, SC
WELL NO:	E6w-1	SAMPLE ID:	DATE: 11-8-18

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1/2 WELL SCREEN INTERVAL DEPTH: feet to feet STATIC DEPTH TO WATER (feet): 9.50
 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)
 = (20.00 - 9.50) feet X 0.16 gallons/foot = 2.6448 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY
(only fill out if applicable) X TUBING LENGTH) + FLOW CELL VOLUME

$$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

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.) : $1/8'' = 0.0006; \quad 3/16'' = 0.0014; \quad 1/4'' = 0.0026; \quad 5/16'' = 0.004; \quad 3/8'' = 0.006; \quad 1/2'' = 0.010; \quad 5/8'' = 0.016$

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>H. DUBUS/PRO</i>		SAMPLER(S) SIGNATURE(S): <i>H. DUBUS</i>			SAMPLING INITIATED AT: <u>1244</u>	SAMPLING ENDED AT: <u>1254</u>			
PUMP OR TUBING DEPTH IN WELL (feet):	<u>13'</u>	TUBING MATERIAL CODE: <u>HDP</u>	FIELD-FILTERED: Y <u>(N)</u>	Filtration Equipment Type:	FILTER SIZE: _____ μm				
FIELD DECONTAMINATION: PUMP <u>(Y)</u> N	TUBING Y <u>(N replaced)</u>				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			
	1	PE	1L	CODC	1	6.6	C1 N1B3-TDS	APP	<3.00
	1	PE	250 mL	HNB3	1	<2	METALS		
	1	PE	250 mL	H2SO4	1	<2	NH3		
2	CG	40 mL		CODC	1	6.6	EDTA & DPICS		
3	CG	10 mL		HCL	1	<2	S240	V	V
REMARKS:									

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 (S)

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



Document Name:
Groundwater Sampling Log

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

Form FD 9000-24

SITE NAME: LENA RD L.F	SITE LOCATION: LENARD RD. BRADENTON, FL	
WELL NO: SN-3	SAMPLE ID:	DATE: 11-7-18

PURGING DATA

PURGE DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet)	PURGE PUMP TYPE OR BAIRER:
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY						PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable) = (19.54 feet - 6.59 feet) x 8.16 gallons/foot = 2.08 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

**INITIAL PUMP OR TUBING
DEPTH IN WEI (feet):** 10' **FINAL PUMP OR TUBING
DEPTH IN WEI (feet):** 12' **PURGING
INITIATED AT:** 11' **PURGING
ENDED AT:** 13' **TOTAL VOLUME
PURGED (gallons):** 330

WELL CAPACITY (Gallons Per Foot): $0.78'' = 0.02;$ $1'' = 0.04;$ $1.25'' = 0.06;$ $2'' = 0.16;$ $3'' = 0.37;$ $4'' = 0.65;$ $5'' = 1.02;$ $6'' = 1.47;$ $12'' = 5.88$
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): $1/8'' = 0.0008;$ $3/16'' = 0.0014;$ $1/4'' = 0.0028;$ $5/16'' = 0.004;$ $3/8'' = 0.008;$ $1/2'' = 0.010;$ $5/8'' = 0.016$

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>H. DODDS/PACE</i>		SAMPLER(S) SIGNATURE(S) <i>H. DODDS</i>			SAMPLING INITIATED: 134	SAMPLING ENDED AT: 144			
PUMP OR TUBING DEPTH IN WELL (feet): <i>10'</i>	TUBING MATERIAL CODE: HIDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		Filtration Equipment Type:	FILTER SIZE: 10 µm				
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> 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	RF	'L	COLD	0	0	6.6	Cl, NO ₃ , TDS	APP	<300
1	RF	250mL	FINO3	1	1	<2	METALS	1	1
1	SB	250mL	H ₂ SO ₄	1	1	<2	NH ₃	1	1
2	CB	90mL	COLD	1	1	6.6	EDTA & DECP	1	1
3	CB	40mL	COLD	1	1	<2	8260	1	1

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; E8P = Electric Submersible Pump;
RFP = 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 82-160, F.A.C.

1. The above do not constitute all of the information required by Chapter 02-100, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FIGURE 12, SECTION 1)

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

	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: <u>LENARD L.F.</u>	SITE LOCATION: <u>LENARD RD. BRADENTON, FL</u>
WELL NO: <u>GW-4</u>	SAMPLE ID: _____
DATE: <u>11-7-18</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>8.36</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)

$$= (19.63 \text{ feet} - 8.36 \text{ feet}) \times 0.76 \text{ gallons/foot} = 1,803.2 \text{ gallons}$$

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): 12 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12 PURGING INITIATED AT: 12/0 PURGING ENDED AT: 12/31 TOTAL VOLUME PURGED (gallons): 3.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <small>µmhos/cm or µS/cm</small>	DISSOLVED OXYGEN (circle units) <small>mg/L or % saturation</small>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12/3	1.95	1.95	0.15	8.33	6.6	27.3	428.9	0.78	0.43	CLEAR	N/A
12/31	0.60	2.55	0.15	9.33	6.6	27.2	428.2	0.33	0.35	"	"
12/31	0.60	3.15	0.15	9.33	6.6	27.2	428.3	0.26	0.01	"	"

WELL CAPACITY (Gallons Per Foot): $0.76'' = 0.02$; $1'' = 0.04$; $1.25'' = 0.06$; $2'' = 0.16$; $3'' = 0.37$; $4'' = 0.65$; $5'' = 1.02$; $6'' = 1.47$; $12'' = 5.88$
TUBING INSIDE DIA. CAPACITY (Gal./ft): $1/8'' = 0.0008$; $3/16'' = 0.0014$; $1/4'' = 0.0026$; $5/16'' = 0.004$; $3/8'' = 0.006$; $1/2'' = 0.010$; $5/8'' = 0.016$

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

SAMPLING DATA

SAMPLER BY (PRINT) / AFFILIATION: H. COOKS / PAC SAMPLER(S) SIGNATURE(S): H. COOKS SAMPLING INITIATED AT: 12/2 SAMPLING ENDED AT: 12/42

PUMP OR TUBING DEPTH IN WELL (feet): 12 TUBING MATERIAL CODE: HDPE FIELD-FILTERED: Y N FILTER SIZE: µm
Filtration Equipment Type: _____

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	400		0	6.6	Cl, NH3, TDS	APP	<300
1	PE	250mL	400		1	<2	METALS		
1	PE	250mL	H2SO4		1	<2	NH3		
2	CG	40mL	200		1	6.6	EDTA & DOOP		
3	CG	40mL	HCl		0	<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 = Baile; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFP = 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)



**Document Name:
Groundwater Sampling Log
Document No.:
1**

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

Form FD 9000-24

SITE NAME:	LENA RD. L.F	SITE LOCATION:	LENA RD. BRADENTON, FL
WELL NO:	GW-5	SAMPLE ID:	DATE: 11-7-18

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>8.17</u>	PURGE PUMP TYPE OR BAIRER:	<u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				$= (19.66 \text{ feet} - 8.17 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.8384 \text{ gallons}$			

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12 PURGING INITIATED AT 1304 PURGING ENDED AT: 1325 TOTAL VOLUME PURGED (gallons) 3.15

WELL CAPACITY (Gallons Per Foot): $0.78'' = 0.02;$ $1'' = 0.04;$ $1.25'' = 0.06;$ $2'' = 0.16;$ $3'' = 0.37;$ $4'' = 0.65;$ $5'' = 1.02;$ $6'' = 1.47;$ $12'' = 5.88$
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): $1/8'' = 0.0006;$ $3/16'' = 0.0014;$ $1/4'' = 0.0026;$ $5/16'' = 0.004;$ $3/8'' = 0.006;$ $1/2'' = 0.010;$ $5/8'' = 0.018$

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

SAMPLING DATA

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION H. BOURGEOIS PACG		SAMPLER(S) SIGNATURE(S) H. BOURGEOIS		SAMPLING INITIATED AT: 1326	SAMPLING ENDED AT: 1336			
PUMP OR TUBING DEPTH IN WELL (feet): 12'		TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y 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 minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)			
	1	PF	1L	COLD	0	6.5	CL, NO3, DS	APP < 300
	1	PF	250ml	+1NO3	0	<2	METALS	APP
	1	PF	250ml	+1H SO4	1	<2	NH3	"
2	CG	40 ml	COLD		0	6.5	EDB & DBCP	APP
3	CG	40 ml	+1CL		0	<2	8260	"

MATERIAL CODES: AG = Amber Glass; SG = Clear Glass; PE = Polyethylene; PP = Polypropylene; PS = Polystyrene; PV = Polyvinyl Chloride

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump;

RFFP = Reverse Flow Penstiotic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- 1. The above do not constitute all of the information required by Chapter 32-160, 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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table F5 2200-2); optionally, $\pm 0.2\text{ mg/L}$ or $\pm 10\%$ (whichever is greater) Turbidity: all readings $< 20\text{ NTU}$; optionally $\pm 5\text{ NTU}$ or $\pm 10\%$ (whichever is greater)



Document Name:

Document No.:
F-EL-C-021 rev. 00

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

Form FD 9000-24

SITE NAME:	LENNA RD. L.F	SITE LOCATION:	LENNA RD BRADENTON, FL
WELL NO:	GW-6	SAMPLE ID:	DATE: 11-7-18

PURGING DATA

PURGE DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	7.84	PURGE PUMP TYPE OR BAILER:	PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY								

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) 19.54 7.84 3.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + TUBING CAPACITY

$$= 11.59 \text{ feet} - 1.04 \text{ feet) } \times 0.16 \text{ gallons/foot} = 11.82 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	<u>12</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	<u>12</u>	PURGING INITIATED AT:	<u>1354</u>	PURGING ENDED AT:	<u>1415</u>	TOTAL VOLUME PURGED (gallons)	<u>3,18</u>
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WELL CAPACITY (Gallons Per Foot): $0.78^n = 0.02$; $1^n = 0.04$; $1.25^n = 0.06$; $2^n = 0.16$; $3^n = 0.37$; $4^n = 0.65$; $5^n = 1.02$; $6^n = 1.47$; $12^n = 5.88$
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): $1/8^n = 0.0008$; $3/16^n = 0.0014$; $1/4^n = 0.0026$; $5/16^n = 0.004$; $3/8^n = 0.009$; $1/2^n = 0.010$; $5/8^n = 0.018$

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. BIGGLES PAGE</u>		SAMPLER(S) SIGNATURE(S): <u>H. BIGGLES</u>			SAMPLING INITIATED AT: <u>1416</u>	SAMPLING ENDED AT: <u>1426</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>12'</u>		TUBING MATERIAL CODE: <u>HIDPE</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type:	FILTER SIZE: <u>μm</u>					
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N		TUBING Y <input type="checkbox"/> N (replaced)	DUPLICATE: Y <input type="checkbox"/> 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	FE	1L	CODC	0	6.8	C, N23, TDS	APP	<300
	1	FE	250mL	HNO3		<2	METACO		
	1	FE	250mL	H2SO4		<2	NH3		
3	15	40mL	CODC			6.8	EDB & DBAP		
3	15	40mL	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 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:** $\pm 0.2^\circ\text{C}$ **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2 \text{ mg/L}$ or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings $< 20 \text{ NTU}$; optionally $\pm 5 \text{ NTU}$ or $\pm 10\%$ (whichever is greater)

	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

SITE NAME: LENA RD. LF	SITE LOCATION: LENA RD. BRADENTON, FL	
WELL NO: 60-8	SAMPLE ID:	DATE: 11-7-18

PURGING DATA

PURGE DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	67	PURGE PUMP TYPE OR BAILER:	PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

30' 39" 11' 2" 8' 0" 1384 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>15</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	<u>15</u>	PURGING INITIATED AT:	<u>1600</u>	PURGING ENDED AT:	<u>1616</u>	TOTAL VOLUME PURGED (gallons):	<u>2,40</u>
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WELL CAPACITY (Gallons Per Foot): $0.75'' = 0.02$; $1'' = 0.04$; $1.25'' = 0.06$; $2'' = 0.16$; $3'' = 0.37$; $4'' = 0.65$; $5'' = 1.02$; $6'' = 1.47$; $12'' = 5.88$
THICKNESS INSIDE PIPE CAPACITY (Gal./Ft.): $1/8'' = 0.0008$; $3/16'' = 0.0014$; $1/4'' = 0.0026$; $5/16'' = 0.004$; $3/8'' = 0.006$; $1/2'' = 0.010$; $5/8'' = 0.016$

TUBING INSIDE DIA. CAPACITY (GAL/FT.) 1/8 = 0.0000, 1/4 = 0.0014, 1/2 = 0.0032

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

SAMPLING DATA

SAMPLED BY (PRINT / AFFILIATION): <u>H. BOBBUS/PAGE</u>		SAMPLER(S) SIGNATURE(S): <u>H. BOBBUS</u>		SAMPLING INITIATED AT: <u>1617</u>	SAMPLING ENDED AT: <u>1627</u>				
PUMP OR TUBING DEPTH IN WELL (feet):	<u>15</u>	TUBING MATERIAL CODE:	<u>H.DPE</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTRATION EQUIPMENT TYPE: <u>Filtration Equipment Type:</u>				
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		TUBING <input checked="" type="checkbox"/> Y <input type="checkbox"/> N (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>					
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	COD	0	6.9	CDNMBTDS	PPP	<300
	1	PE	250ml	HNO3	1	<2	METALS		
	1	PE	250ml	H2SO4	1	<2	NH3		
	2	CG	40ml	CODC	1	6.9	EDB&DZCP		
	3	CG	40ml	HCL	1	<2	8260		

RFP = Reverse Flow Peristaltic Pump; **SM = Straw Method (Tubing Gravity Drain);** **O = Other (Specify)**

NOTES: 4. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. THEFTS OF AUTOMOTIVE CONCENTRATE READINGS (SEE ES 2212 SECTION 3)

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

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



Document Name:
Groundwater Sampling Log

Document Revised
December 03, 2012

Issuing Authority:
Broward Florida Quality Office

Form FD 9000-24

SITE NAME: LENA RD L.F	SITE LOCATION: 3333 LENA RD, BRADENTON, FL	
WELL NO: RW-9	SAMPLE ID:	DATE: 11-8-18

PURGING DATA

PURGE DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/2	11.25	PP	
WELL VOLUME BUDGET: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY		1400		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) * FLOW CELL VOLUME

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY) X TUBING LENGTH / (PIEZO CELL VOLUME)

(only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

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

WELL CAPACITY (Gallons Per Foot): $0.75 = 0.02;$ $1" = 0.04;$ $1.25" = 0.06;$ $2" = 0.10;$ $3" = 0.15;$
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 = Boiler; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) _____

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>H. BAGUES/PACÉ</u>		SAMPLER(S) SIGNATURE(S): <u>H. BAGUES</u>			SAMPLING INITIATED AT: <u>0752</u>	SAMPLING ENDED AT: <u>0802</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>15'</u>	TUBING MATERIAL CODE: <u>HDPE</u>	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: 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)			
1	8P	1L	CXL	0	4.6	Cl, NO3, TDS	APP	<300
1	8P	250ml	HNO3	1	<2	METALS		
1	8P	250ml	H2SO4	1	<2	NH3	1	1
2	6S	40ml	200C	1	6.4	EDTA & DBBP	1	1
3	6S	40ml	HCL	1	<2	8240	V	V

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)

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE COURSES

pH: ± 0.2 units Temperature: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table I-3-2)

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)



Document Name:
Groundwater Sampling Log
Document No.:

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

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Lena Rd L.F	SITE LOCATION:	3335 LENA RD, BRADENTON
WELL NO:	5A-10	SAMPLE ID:	DATE: 1-8-18

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 1/4 WELL SCREEN INTERVAL DEPTH: feet to feet STATIC DEPTH TO WATER (feet): 9.92 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) $- 20.15 \text{ feet} - 9.92 \text{ feet} \times 0.16 \text{ gallons/foot} = 1.6368 \text{ gallons}$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17 PURGING INITIATED AT: 08/18 PURGING ENDED AT: 08/18 TOTAL VOLUME PURGED (gallons): 255

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: <i>H. BOURGEOIS / PAC</i>	SAMPLER(S) SIGNATURE: <i>H. BOURGEOIS</i>	SAMPLING INITIATED AT: 0836	SAMPLING ENDED AT: 08116						
PUMP OR TUBING DEPTH IN WELL (feet): 17'	TUBING MATERIAL CODE: HIDCE	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 minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED				TOTAL VOL ADDED IN FIELD (mL)	FINAL pH
	1	SE	1L	CDC	0	9.7	C1, N23 TDS	APS	< 300.
	1	SE	250 mL	H1N23		< 2	METALS		
	1	SE	250 mL	H2S24		< 2	NH3		
2	05	90 mL		CDC		9.7	EDB & TDS		
3	05	40 mL		HCL		< 2	8240		

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)

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE
11. 0-2, pH: 7, Conductance: 0.0-12, Specific Conductance: +/- 5%, Dissolved Oxygen: all readings < 20% saturation (see page 10)

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



Document Name:

Groundwater Sampling Log

Document No.:
E-EI-0-001-00

Document Revised:

December 03, 2012

Issuing Authority:

Form FD 9000-24

SITE NAME:	LENA RD LF	SITE LOCATION:	3333 LEONA RD. BRADENTON FL
WELL NO:	GN-11	SAMPLE ID:	DATE: 11-8-18

PURGING DATA

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/2	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)				$= (21.41 \text{ feet} - 7.54 \text{ feet}) \times 0.16 \text{ gallons/foot} = 2.2512 \text{ gallons}$		

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

(Gallons) = gallons + (gallons/foot X feet) + gallons = gallons
 INITIAL PUMP OR TUBING FINAL PUMP OR TUBING PURGING TOTAL VOLUME
 DEPTH IN WELL (feet): 11 DEPTH IN WELL (feet): 11 INITIATED AT: 0922 PURGED (gallons): 3.60
 PURGING ENDED AT: 0944

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11 PURGING INITIATED AT: 0922 PURGING ENDED AT: 0946 TOTAL VOLUME PURGED (gallons): 3,60

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. BISHOP/SPACE		SAMPLER(S) SIGNATURE(S) H. BISHOP			SAMPLING INITIATED AT: 0947	SAMPLING ENDED AT: 0957			
PUMP OR TUBING DEPTH IN WELL (feet): 11'		TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y Filtration Equipment Type: 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	16	CDD	0	4.8	C, MR, D	APP	<300
	1	PE	250mL	HNO3	1	<2	METALS		
	1	PE	250mL	H2SO4	1	<2	NH3		
2	CG	40mL	CDD		↓	4.8	CDB & VBO	↓	
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: + 5% Dissolved Oxygen: all readings < 20% saturation (see notes)

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)



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Groundwater Sampling Log

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Pace Florida Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME:	LENA RD LANDFILL	SITE LOCATION:	LENA RD, BRADENTON, FL.	
WELL NO.:	(505)-12	SAMPLE ID:	DATE: 11-8-18	

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:
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.21 feet - 9.79 feet) X 0.16 gallons/foot = 1.6472 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):	13	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	13	PURGING INITIATED AT	1005	PURGING ENDED AT	1023	TOTAL VOLUME PURGED (gallons):	270
--	----	--	----	----------------------	------	------------------	------	--------------------------------	-----

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)
1017	1.50	1.50	0.15	10.11	6.72	27.2	732	0.84	1.55	CLEAR	NONSENSE
1020	0.45	2.25	0.15	10.11	6.71	27.2	731	0.65	0.37	"	"
1023	0.45	2.70	0.15	10.11	6.70	27.2	731	0.42	0.02	"	"

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. DOUGLES PAGE	SAMPLER(S) SIGNATURE(S): H. DOUGLES	SAMPLING INITIATED AT: 1024	SAMPLING ENDED AT: 1031						
PUMP OR TUBING DEPTH IN WELL (feet): 13'	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type:	FILTER SIZE: _____ μm						
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>							
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)
1	8	CG	1L	COOL	0	6.7	1003-TDS	APP	<300
1	8	CG	250 mL	HNO3	1	<2	METALS		
1	8	CG	250 mL	H2SO4	1	<2	NH3		
2	6	CG	40 mL	COOL	1	6.7	EDB & DBCP		
3	6	CG	10 mL	HCl	1	<2	8260	V	V

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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2 \text{ mg/L}$ or $\pm 10\%$ (whichever is greater) Turbidity: all readings $\leq 20 \text{ NTU}$; optionally $\pm 5 \text{ NTU}$ or $\pm 10\%$ (whichever is greater)



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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME:	LCP RD. L.F	SITE LOCATION:	3333 LCP RD. BRADENTON, FL
WELL NO:	6N-11	SAMPLE ID:	DATE: 11-8-18

PURGING DATA

WELL TUBING WELL SCREEN INTERVAL STATIC DEPTH PURGE PUMP TYPE
DIAMETER (inches): 2 DIAMETER (inches): 1/4 DEPTH: feet to feet TO WATER (feet): 5.31 OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9' FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9' PURGING INITIATED AT: 1129 PURGING ENDED AT: 1153 TOTAL VOLUME PURGED (gallons): 3.60

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; Q = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. Dosses/PACE		SAMPLER(S)/SIGNATURE(S): H. Dosses			SAMPLING INITIATED AT: 1154	SAMPLING ENDED AT: 1204		
PUMP OR TUBING DEPTH IN WELL (feet): 9'	TUBING MATERIAL CODE: TIDCE	FIELD-FILTERED: Y N		FILTER SIZE: _____ μm Filtration Equipment Type:				
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)			
1	8L	1L	COOL	0	6.6	Cl, NO ₃ , TDS	ASP	<30
1	8L	250mL	HNO ₃	1	<2	METALS	✓	✓
1	8L	250mL	H ₂ SO ₄	1	<2	NH ₃	✓	✓
2	0.5	1L mL	COOL	1	4.6	CDR & DBO	✓	✓
3	0.5	10mL	HCl	1	<2	8340	✓	✓

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 = Bailier; 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:** $\pm 0.2^\circ\text{C}$ **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+ 0.2 \text{ mg/L}$ or $+ 10\%$ (whichever is greater) **Turbidity:** all readings $< 20 \text{ NTU}$; optionally $+ 5 \text{ NTU}$ or $+ 10\%$ (whichever is greater)



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December 03, 2012
Issuing Authority:
Broward County Quality Office

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME:	LENA RD LF	SITE LOCATION:	1333 LENA RD. BRADENTON FL
WELL NO:	(50)-15	SAMPLE ID:	DATE: 11-8-15

PURGING DATA

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 <i>H. ROXIES/PCB</i>		SAMPLER(S) SIGNATURE(S) <i>H. Roxies</i>			SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1330			
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: LIDSE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type:		FILTER SIZE: _____ μm					
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)	DUPLICATE: <input checked="" type="checkbox"/> 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	CODC	8	6.6	Cl, NO ₃ , TDS	APP	< 300
	1	PE	250 ml	11NO ₃		< 2	METALS		
	1	PE	250 ml	11NO ₃	1	< 2	NH ₃	1	1
	2	CG	40 ml	CODC	↓	6.6	Cl, Br & DICP	1	1
	3	CG	40 ml	11CC	↓	< 2	SiO ₂	1	1
REMARKS:	<i>DUPPLICATE TAKEN @ EW-15</i>								
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 contained on the sample form.								

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 ES 2212 SECTION 3)

pH: + 0.3 units. Temperature: + 0.3 °C. Pressure: + 0.001 atm. Time: + 0.001 hr.

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



Document Name:
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Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: WELL NO:	LENA RD L.F GW-16	SITE LOCATION: SAMPLE ID:	3333 LEA RD BRADENTON FL 11-8-18
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PURGING DATA

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. BOSWELL / PACE		SAMPLER(S) SIGNATURE(S): H. BOSWELL			SAMPLING INITIATED AT: 14/00	SAMPLING ENDED AT: 14/10			
PUMP OR TUBING DEPTH IN WELL (feet):	RB	TUBING MATERIAL CODE:	HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Filtration Equipment Type:	FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP	(Y) N	TUBING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)	DUPLICATE:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
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)
	1	PF	1L	COLD	0	7.0	Cl, NO ₃ , TDS	APP	<200
	1	SE	250mL	HNO ₃		<2	METALS		
	1	PF	250mL	H ₂ SO ₄		<3	NH ₃		
2	CE	40mL		COLD		7.0	DB3 & DBOP		
3	CG	40mL		HCL	↓	<2	SD60	V	V
REMARKS:									

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 = Electro-Solenoid Pump; P = Polypropylene; S = Silicone; T = Teflon; U = 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 ES-2012, SECTION 2).

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



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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: LINDA RD LF	SITE LOCATION: 3333 LINDA RD BRADENTON FL	
WELL NO: GW-17	SAMPLE ID:	DATE: 11-8-18

PURGING DATA

WELL DIA. (inches): 2 TUBING DIA. (inches): 1/2 WELL SCREEN INTERVAL DEPTH: feet to feet
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable)

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY
 (only fill out if applicable) 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: 120 PURGING ENDED AT: 146.2 TOTAL VOLUME PURGED (gallons): 330

WELL CAPACITY (Gallons Per Foot): $0.75'' = 0.02$; $1'' = 0.04$; $1.25'' = 0.06$; $2'' = 0.16$; $3'' = 0.32$; $4'' = 0.65$; $5'' = 1.00$; $6'' = 1.45$

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" = 0.012; 5/8" = 0.018; 3/4" = 0.037; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PR = Peristaltic Pump

SAMPLING DATA

SAMPLED BY (PRINT / AFFILIATION): <u>J. DUBES/PACE</u>		SAMPLER(S) SIGNATURE(S): <u>J. DUBES</u>			SAMPLING INITIATED AT: <u>1/14/53</u>	SAMPLING ENDED AT: <u>1/15/53</u>			
PUMP OR TUBING DEPTH IN WELL (feet):	<u>12'</u>	TUBING MATERIAL CODE: <u>HDPE</u>	FIELD-FILTERED: <u>Y</u> <u>N</u> Filtration Equipment Type:	FILTER SIZE: _____ μm					
FIELD DECONTAMINATION: PUMP <u>Y</u> <u>N</u>		TUBING <u>Y</u> <u>N</u> (replaced)		DUPLICATE: <u>Y</u> <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)
	1	PF	1L	Cool	0	5.9	O, NO ₃ TDS	APP	<300
	1	PF	250 mL	1/10/3	0	<2	METALS		
	1	PL	250 mL	1/15/4	1	<2	NH ₃		
2	CG	40 mL	Cool			5.9	ETB & DBCP		
3	CG	10 mL	HCC		↓	<2	8260	↓	↓
REMARKS:									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene

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

APP = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump;

NOTES: 1. The above do not constitute all of the information required for the use of the pump.

1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR DANCE STAGING

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 $< 20\%$ saturation (see Table F2-2000, p. 122)

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).



Document Name:
Groundwater Sampling Log

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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <i>Lena Rd LF</i>	SITE LOCATION: <i>3333 Lena Rd. Bradenton</i>
WELL NO: <i>GW-18</i>	SAMPLE ID: <i></i>

DATE: *11-8-18*

PURGING DATA

WELL DIAMETER (inches): <i>2</i>	TUBING DIAMETER (inches): <i>1/4</i>	WELL SCREEN INTERVAL DEPTH: <i>feet to feet</i>	STATIC DEPTH TO WATER (feet) <i>10.15</i>	PURGE PUMP TYPE OR BAILER: <i>PP</i>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= <i>(20.50 - 10.15) x 0.16</i> gallons/foot = <i>1.656</i> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>14</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>14</i>	PURGING INITIATED AT: <i>15:15</i>	PURGING ENDED AT: <i>15:33</i>	TOTAL VOLUME PURGED (gallons) <i>2.70</i>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <i>μmhos/cm or μS/cm</i>	DISSOLVED OXYGEN (circle units) <i>mg/l or % saturation</i>	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<i>15:27</i>	<i>1.80</i>	<i>1.80</i>	<i>0.15</i>	<i>10.85</i>	<i>6.10</i>	<i>27.8</i>	<i>566</i>	<i>5.42</i>	<i>16.3</i>	<i>CLEAR</i>	<i>NONE</i>
<i>15:30</i>	<i>0.45</i>	<i>2.25</i>	<i>0.15</i>	<i>10.85</i>	<i>6.10</i>	<i>27.8</i>	<i>565</i>	<i>8.38</i>	<i>14.9</i>	"	"
<i>15:33</i>	<i>0.45</i>	<i>2.70</i>	<i>0.15</i>	<i>10.85</i>	<i>6.11</i>	<i>27.8</i>	<i>567</i>	<i>0.35</i>	<i>13.2</i>	"	"

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: <i>H. Dogues / Pace</i>	SAMPLER(S) SIGNATURE(S): <i>H. Dogues</i>	SAMPLING INITIATED AT: <i>15:34</i>	SAMPLING ENDED AT: <i>15:44</i>						
PUMP OR TUBING DEPTH IN WELL (feet): <i>14</i>	TUBING MATERIAL CODE: <i>HDPE</i>	FIELD-FILTERED: <i>Y</i> <i>N</i>	FILTER SIZE: <i>μm</i>						
FIELD DECONTAMINATION: <i>PUMP Y N</i>	TUBING <i>Y N</i> (replaced)	DUPLICATE: <i>Y</i> <i>N</i>							
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)
<i>1</i>	<i>8E</i>	<i>1L</i>		<i>COOL</i>	<i>0</i>	<i>6.1</i>	<i>CL, NH3, TDS</i>	<i>APP</i>	<i><300</i>
<i>1</i>	<i>8E</i>	<i>250 ml</i>		<i>HNO3</i>		<i><2</i>	<i>METALS</i>		
<i>1</i>	<i>8E</i>	<i>250 ml</i>		<i>H2SO4</i>		<i><2</i>	<i>NH3</i>		
<i>2</i>	<i>CG</i>	<i>40 ml</i>		<i>COOL</i>		<i>6.1</i>	<i>EDTA & DBCOB</i>		
<i>3</i>	<i>CG</i>	<i>40 ml</i>		<i>HCl</i>		<i><2</i>	<i>8260</i>		

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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2 \text{ mg/L}$ or $\pm 10\%$ (whichever is greater) Turbidity: all readings $\leq 20 \text{ NTU}$; optionally $\pm 5 \text{ NTU}$ or $\pm 10\%$ (whichever is greater)

GW-21

Form FD 9000-24

SITE NAME: LENA RD	LF	SITE LOCATION: 3333 LENA RD BRADENTON FL
WELL NO: GW- ^{AD 100}	21	SAMPLE ID:
		DATE: 11-9-18

PURGING DATA

WELL TUBING WELL SCREEN INTERVAL STATIC DEPTH PURGE PUMP TYPE
 DIAMETER (inches): 2 DIAMETER (inches): 1 1/4 DEPTH: feet to feet TO WATER (feet) 18.03 OR BAILER: PP
 WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (feet)(ft.3) = (18.03 ft. - 18 ft.) x 100 ft.3 = 100 ft.3

WELL VOLUME FURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY
(only fill out if applicable) 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>16</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	<u>19</u>	PURGING INITIATED AT:	<u>1040</u>	PURGING ENDED AT:	<u>1054</u>	TOTAL VOLUME PURGED (gallons):	<u>210</u>
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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" = 0.0044; 3/8" = 0.0071; 7/16" = 0.0118; 1/2" = 0.0175; 9/16" = 0.0248; 5/8" = 0.0339; 11/16" = 0.0449; 3/4" = 0.0588; 13/16" = 0.0751; 7/8" = 0.0953; 15/16" = 0.1197; 1" = 0.1481; 17/16" = 0.1719; 9/10" = 0.1991; 19/16" = 0.2299; 11/10" = 0.2621; 21/16" = 0.2969; 13/10" = 0.3331; 23/16" = 0.3719; 15/8" = 0.4121; 25/16" = 0.4549; 17/8" = 0.5001; 27/16" = 0.5471; 19/8" = 0.5971; 29/16" = 0.6479; 21/8" = 0.7001; 31/16" = 0.7549; 23/8" = 0.8101; 33/16" = 0.8679; 25/8" = 0.9261; 35/16" = 0.9869; 27/8" = 1.0461; 37/16" = 1.1089; 29/8" = 1.1701; 39/16" = 1.2449; 31/8" = 1.3101; 41/16" = 1.3869; 33/8" = 1.4641; 43/16" = 1.5649; 35/8" = 1.6661; 45/16" = 1.7709; 37/8" = 1.8801; 47/16" = 1.9949; 39/8" = 2.1061; 49/16" = 2.2249; 41/8" = 2.3461; 51/16" = 2.4709; 43/8" = 2.5961; 53/16" = 2.7249; 45/8" = 2.8561; 55/16" = 2.9909; 47/8" = 3.1261; 57/16" = 3.2549; 49/8" = 3.3861; 59/16" = 3.5149; 51/8" = 3.6461; 61/16" = 3.7749; 53/8" = 3.9061; 63/16" = 4.0349; 55/8" = 4.1661; 65/16" = 4.2949; 57/8" = 4.4261; 67/16" = 4.5549; 59/8" = 4.6861; 69/16" = 4.8149; 61/8" = 4.9461; 71/16" = 5.0749; 63/8" = 5.2061; 73/16" = 5.3349; 65/8" = 5.4661; 75/16" = 5.5949; 67/8" = 5.7261; 77/16" = 5.8549; 69/8" = 5.9861; 79/16" = 6.1149; 71/8" = 6.2461; 81/16" = 6.3749; 73/8" = 6.5061; 83/16" = 6.6349; 75/8" = 6.7661; 85/16" = 6.8949; 77/8" = 7.0261; 87/16" = 7.1549; 79/8" = 7.2861; 89/16" = 7.4149; 81/8" = 7.5461; 91/16" = 7.6749; 83/8" = 7.8061; 93/16" = 7.9349; 85/8" = 8.0661; 95/16" = 8.1949; 87/8" = 8.3261; 97/16" = 8.4549; 89/8" = 8.5861; 101/16" = 8.7149; 91/8" = 8.8461; 103/16" = 8.9749; 93/8" = 9.1061; 105/16" = 9.2349; 95/8" = 9.3661; 107/16" = 9.4949; 97/8" = 9.6261; 109/16" = 9.7549; 99/8" = 9.8861; 111/16" = 10.0149; 101/8" = 10.1461; 113/16" = 10.2749; 103/8" = 10.4061; 115/16" = 10.5349; 105/8" = 10.6661; 117/16" = 10.7949; 107/8" = 10.9261; 119/16" = 11.0549; 109/8" = 11.1861; 121/16" = 11.3149; 111/8" = 11.4461; 123/16" = 11.5749; 113/8" = 11.7061; 125/16" = 11.8349; 115/8" = 11.9661; 127/16" = 12.0949; 117/8" = 12.2261; 129/16" = 12.3549; 119/8" = 12.4861; 131/16" = 12.6149; 121/8" = 12.7461; 133/16" = 12.8749; 123/8" = 13.0061; 135/16" = 13.1349; 125/8" = 13.2661; 137/16" = 13.3949; 127/8" = 13.5261; 139/16" = 13.6549; 129/8" = 13.7861; 141/16" = 13.9149; 131/8" = 14.0461; 143/16" = 14.1749; 133/8" = 14.3061; 145/16" = 14.4349; 135/8" = 14.5661; 147/16" = 14.6949; 137/8" = 14.8261; 149/16" = 14.9549; 139/8" = 15.0861; 151/16" = 15.2149; 141/8" = 15.3461; 153/16" = 15.4749; 143/8" = 15.6061; 155/16" = 15.7349; 145/8" = 15.8661; 157/16" = 15.9949; 147/8" = 16.1261; 159/16" = 16.2549; 149/8" = 16.3861; 161/16" = 16.5149; 151/8" = 16.6461; 163/16" = 16.7749; 153/8" = 16.9061; 165/16" = 17.0349; 155/8" = 17.1661; 167/16" = 17.2949; 157/8" = 17.4261; 169/16" = 17.5549; 159/8" = 17.6861; 171/16" = 17.8149; 161/8" = 17.9461; 173/16" = 18.0749; 163/8" = 18.2061; 175/16" = 18.3349; 165/8" = 18.4661; 177/16" = 18.5949; 167/8" = 18.7261; 179/16" = 18.8549; 169/8" = 18.9861; 181/16" = 19.1149; 171/8" = 19.2461; 183/16" = 19.3749; 173/8" = 19.5061; 185/16" = 19.6349; 175/8" = 19.7661; 187/16" = 19.8949; 177/8" = 20.0261; 189/16" = 20.1549; 179/8" = 20.2861; 191/16" = 20.4149; 181/8" = 20.5461; 193/16" = 20.6749; 183/8" = 20.8061; 195/16" = 20.9349; 185/8" = 21.0661; 197/16" = 21.1949; 187/8" = 21.3261; 199/16" = 21.4549; 189/8" = 21.5861; 201/16" = 21.7149; 191/8" = 21.8461; 203/16" = 21.9749; 193/8" = 22.1061; 205/16" = 22.2349; 195/8" = 22.3661; 207/16" = 22.4949; 197/8" = 22.6261; 209/16" = 22.7549; 199/8" = 22.8861; 211/16" = 23.0149; 201/8" = 23.1461; 213/16" = 23.2749; 203/8" = 23.4061; 215/16" = 23.5349; 205/8" = 23.6661; 217/16" = 23.7949; 207/8" = 23.9261; 219/16" = 24.0549; 209/8" = 24.1861; 221/16" = 24.3149; 211/8" = 24.4461; 223/16" = 24.5749; 213/8" = 24.7061; 225/16" = 24.8349; 215/8" = 24.9661; 227/16" = 25.0949; 217/8" = 25.2261; 229/16" = 25.3549; 219/8" = 25.4861; 231/16" = 25.6149; 221/8" = 25.7461; 233/16" = 25.8749; 223/8" = 26.0061; 235/16" = 26.1349; 225/8" = 26.2661; 237/16" = 26.3949; 227/8" = 26.5261; 239/16" = 26.7549; 229/8" = 26.8861; 241/16" = 27.0149; 231/8" = 27.1461; 243/16" = 27.2749; 233/8" = 27.4061; 245/16" = 27.5349; 235/8" = 27.6661; 247/16" = 27.7949; 237/8" = 27.9261; 249/16" = 28.0549; 239/8" = 28.1861; 251/16" = 28.3149; 241/8" = 28.4461; 253/16" = 28.5749; 243/8" = 28.7061; 255/16" = 28.8349; 245/8" = 28.9661; 257/16" = 29.0949; 247/8" = 29.2261; 259/16" = 29.3549; 249/8" = 29.4861; 261/16" = 29.6149; 251/8" = 29.7461; 263/16" = 29.8749; 253/8" = 30.0061; 265/16" = 30.1349; 255/8" = 30.2661; 267/16" = 30.3949; 257/8" = 30.5261; 269/16" = 30.7549; 259/8" = 30.8861; 271/16" = 31.0149; 261/8" = 31.1461; 273/16" = 31.2749; 263/8" = 31.4061; 275/16" = 31.5349; 265/8" = 31.6661; 277/16" = 31.7949; 267/8" = 31.9261; 279/16" = 32.0549; 269/8" = 32.1861; 281/16" = 32.3149; 271/8" = 32.4461; 283/16" = 32.5749; 273/8" = 32.7061; 285/16" = 32.8349; 275/8" = 32.9661; 287/16" = 33.0949; 277/8" = 33.2261; 289/16" = 33.3549; 279/8" = 33.4861; 291/16" = 33.6149; 281/8" = 33.7461; 293/16" = 33.8749; 283/8" = 33.9061; 295/16" = 33.9349; 285/8" = 34.0661; 297/16" = 34.1949; 287/8" = 34.3261; 299/16" = 34.4549; 289/8" = 34.5861; 301/16" = 34.6149; 291/8" = 34.7461; 303/16" = 34.8749; 293/8" = 34.9061; 305/16" = 34.9349; 295/8" = 35.0661; 307/16" = 35.1949; 297/8" = 35.3261; 309/16" = 35.4549; 299/8" = 35.5861; 311/16" = 35.6149; 301/8" = 35.7461; 313/16" = 35.8749; 303/8" = 35.9061; 315/16" = 35.9349; 305/8" = 36.0661; 317/16" = 36.1949; 307/8" = 36.3261; 319/16" = 36.4549; 309/8" = 36.5861; 321/16" = 36.6149; 311/8" = 36.7461; 323/16" = 36.8749; 313/8" = 36.9061; 325/16" = 36.9349; 315/8" = 37.0661; 327/16" = 37.1949; 317/8" = 37.3261; 329/16" = 37.4549; 319/8" = 37.5861; 331/16" = 37.6149; 321/8" = 37.7461; 333/16" = 37.8749; 323/8" = 37.9061; 335/16" = 37.9349; 325/8" = 38.0661; 337/16" = 38.1949; 327/8" = 38.3261; 339/16" = 38.4549; 329/8" = 38.5861; 341/16" = 38.6149; 331/8" = 38.7461; 343/16" = 38.8749; 333/8" = 38.9061; 345/16" = 38.9349; 335/8" = 39.0661; 347/16" = 39.1949; 337/8" = 39.3261; 349/16" = 39.4549; 339/8" = 39.5861; 351/16" = 39.6149; 341/8" = 39.7461; 353/16" = 39.8749; 343/8" = 39.9061; 355/16" = 39.9349; 345/8" = 40.0661; 357/16" = 40.1949; 347/8" = 40.3261; 359/16" = 40.4549; 349/8" = 40.5861; 361/16" = 40.6149; 351/8" = 40.7461; 363/16" = 40.8749; 353/8" = 40.9061; 365/16" = 40.9349; 355/8" = 41.0661; 367/16" = 41.1949; 357/8" = 41.3261; 369/16" = 41.4549; 359/8" = 41.5861; 371/16" = 41.6149; 361/8" = 41.7461; 373/16" = 41.8749; 363/8" = 41.9061; 375/16" = 41.9349; 365/8" = 42.0661; 377/16" = 42.1949; 367/8" = 42.3261; 379/16" = 42.4549; 369/8" = 42.5861; 381/16" = 42.6149; 371/8" = 42.7461; 383/16" = 42.8749; 373/8" = 42.9061; 385/16" = 42.9349; 375/8" = 43.0661; 387/16" = 43.1949; 377/8" = 43.3261; 389/16" = 43.4549; 379/8" = 43.5861; 391/16" = 43.6149; 381/8" = 43.7461; 393/16" = 43.8749; 383/8" = 43.9061; 395/16" = 43.9349; 385/8" = 44.0661; 397/16" = 44.1949; 387/8" = 44.3261; 399/16" = 44.4549; 389/8" = 44.5861; 401/16" = 44.6149; 391/8" = 44.7461; 403/16" = 44.8749; 393/8" = 44.9061; 405/16" = 44.9349; 395/8" = 45.0661; 407/16" = 45.1949; 397/8" = 45.3261; 409/16" = 45.4549; 399/8" = 45.5861; 411/16" = 45.6149; 401/8" = 45.7461; 413/16" = 45.8749; 403/8" = 45.9061; 415/16" = 45.9349; 405/8" = 46.0661; 417/16" = 46.1949; 407/8" = 46.3261; 419/16" = 46.4549; 409/8" = 46.5861; 421/16" = 46.6149; 401/8" = 46.7461; 423/16" = 46.8749; 403/8" = 46.9061; 425/16" = 46.9349; 405/8" = 47.0661; 427/16" = 47.1949; 407/8" = 47.3261; 429/16" = 47.4549; 409/8" = 47.5861; 431/16" = 47.6149; 401/8" = 47.7461; 433/16" = 47.8749; 403/8" = 47.9061; 435/16" = 47.9349; 405/8" = 48.0661; 437/16" = 48.1949; 407/8" = 48.3261; 439/16" = 48.4549; 409/8" = 48.5861; 441/16" = 48.6149; 401/8" = 48.7461; 443/16" = 48.8749; 403/8" = 48.9061; 445/16" = 48.9349; 405/8" = 49.0661; 447/16" = 49.1949; 407/8" = 49.3261; 449/16" = 49.4549; 409/8" = 49.5861; 451/16" = 49.6149; 401/8" = 49.7461; 453/16" = 49.8749; 403/8" = 49.9061; 455/16" = 49.9349; 405/8" = 50.0661; 457/16" = 50.1949; 407/8" = 50.3261; 459/16" = 50.4549; 409/8" = 50.5861; 461/16" = 50.6149; 401/8" = 50.7461; 463/16" = 50.8749; 403/8" = 50.9061; 465/16" = 50.9349; 405/8" = 51.0661; 467/16" = 51.1949; 407/8" = 51.3261; 469/16" = 51.4549; 409/8" = 51.5861; 471/16" = 51.6149; 401/8" = 51.7461; 473/16" = 51.8749; 403/8" = 51.9061; 475/16" = 51.9349; 405/8" = 52.0661; 477/16" = 52.1949; 407/8" = 52.3261; 479/16" = 52.4549; 409/8" = 52.5861; 481/16" = 52.6149; 401/8" = 52.7461; 483/16" = 52.8749; 403/8" = 52.9061; 485/16" = 52.9349; 405/8" = 53.0661; 487/16" = 53.1949; 407/8" = 53.3261; 489/16" = 53.4549; 409/8" = 53.5861; 491/16" = 53.6149; 401/8" = 53.7461; 493/16" = 53.8749; 403/8" = 53.9061; 495/16" = 53.9349; 405/8" = 54.0661; 497/16" = 54.1949; 407/8" = 54.3261; 499/16" = 54.4549; 409/8" = 54.5861; 501/16" = 54.6149; 401/8" = 54.7461; 503/16" = 54.8749; 403/8" = 54.9061; 505/16" = 54.9349; 405/8" = 55.0661; 507/16" = 55.1949; 407/8" = 55.3261; 509/16" = 55.4549; 409/8" = 55.5861; 511/16" = 55.6149; 401/8" = 55.7461; 513/16" = 55.8749; 403/8" = 55.9061; 515/16" = 55.9349; 405/8" = 56.0661; 517/16" = 56.1949; 407/8" = 56.3261; 519/16" = 56.4549; 409/8" = 56.5861; 521/16" = 56.6149; 401/8" = 56.7461; 523/16" = 56.8749; 403/8" = 56.9061; 525/16" = 56.9349; 405/8" = 57.0661; 527/16" = 57.1949; 407/8" = 57.3261; 529/16" = 57.4549; 409/8" = 57.5861; 531/16" = 57.6149; 401/8" = 57.7461; 533/16" = 57.8749; 403/8" = 57.9061; 535/16" = 57.9349; 405/8" = 58.0661; 537/16" = 58.1949; 407/8" = 58.3261; 539/16" = 58.4549; 409/8" = 58.5861; 541/16" = 58.6149; 401/8" = 58.7461; 543/16" = 58.8749; 403/8" = 58.9061; 545/16" = 58.9349; 405/8" = 59.0661; 547/16" = 59.1949; 407/8" = 59.3261; 549/16" = 59.4549; 409/8" = 59.5861; 551/16" = 59.6149; 401/8" = 59.7461; 553/16" = 59.8749; 403/8" = 59.9061; 555/16" = 59.9349; 405/8" = 60.0661; 557/16" = 60.1949; 407/8" = 60.3261; 559/16" = 60.4549; 409/8" = 60.5861; 561/16" = 60.6149; 401/8" = 60.7461; 563/16" = 60.8749; 403/8" = 60.9061; 565/16" = 60.9349; 405/8" = 61.0661; 567/16" = 61.1949; 407/8" = 61.3261; 569/16" = 61.4549; 409/8" = 61.5861; 571/16" = 61.6149; 401/8" = 61.7461; 573/16" = 61.8749; 403/8" = 61.9061; 575/16" = 61.9349; 405/8" = 62.0661; 577/16" = 62.1949; 407/8" = 62.3261; 579/16" = 62.4549; 409/8" = 62.5861; 581/16" = 62.6149; 401/8" = 62.7461; 583/16" = 62.8749; 403/8" = 62.9061; 585/16" = 62.9349; 405/8" = 63.0661; 587/16" = 63.1949; 407/8" = 63.3261; 589/16" = 63.4549; 409/8" = 63.5861; 591/16" = 63.6149; 401/8" = 63.7461; 593/16" = 63.8749; 403/8" = 63.9061; 595/16" = 63.9349; 405/8" = 64.0661; 597/16" = 64.1949; 407/8" = 64.3261; 599/16" = 64.4549; 409/8" = 64.5861; 601/16" = 64.6149; 401/8" = 64.7461; 603/16" = 64.8749; 403/8" = 64.9061; 605/16" = 64.9349; 405/8" = 65.0661; 607/16" = 65.1949; 407/8" = 65.3261; 609/16" = 65.4549; 409/8" = 65.5861; 611/16" = 65.6149; 401/8" = 65.7461; 613/16" = 65.8749; 403/8" = 65.9061; 615/16" = 65.9349; 405/8" = 66.0661; 617/16" = 66.1949; 407/8" = 66.3261; 619/16" = 66.4549; 409/8" = 66.5861; 621/16" = 66.6149; 401/8" = 66.7461; 623/16" = 66.8749; 403/8" = 66.9061; 625/16" = 66.9349; 405/8" = 67.0661; 627/16" = 67.1949; 407/8" = 67.3261; 629/16" = 67.4549; 409/8" = 67.5861; 631/16" = 67.6149; 401/8" = 67.7461; 633/16" = 67.8749; 403/8" = 67.9061; 635/16" = 67.9349; 405/8" = 68.0661; 637/16" = 68.1949; 407/8" = 68.3261; 639/16" = 68.4549; 409/8" = 68.5861; 641/16" = 68.6149; 401/8" = 68.7461; 643/16" = 68.8749; 403/8" = 68.9061; 645/16" = 68.9349; 405/8" = 69.0661; 647/16" = 69.1949; 407/8" = 69.3261; 649/16" = 69.4549; 409/8" = 69.5861; 651/16" = 69.6149; 401/8" = 69.7461; 653/16" = 69.8749; 403/8" = 69.9061; 655/16" = 69.9349; 405/8" = 70.0661; 657/16" = 70.1949; 407/8" = 70.3261; 659/16" = 70.4549; 409/8" = 70.5861; 661/16" = 70.6149; 401/8" = 70.7461; 663/16" = 70.8749; 403/8" = 70.9061; 665/16" = 70.9349; 405/8" = 71.0661; 667/16" = 71.1949; 407/8" = 71.3261; 669/16" = 71.4549; 409/8" = 71.5861; 671/16" = 71.6149; 401/8" = 71.7461; 673/16" = 71.8749; 403/8" = 71.9061; 675/16" = 71.9349; 405/8" = 72.0661; 677/16" = 72.1949; 407/8" = 72.3261; 679/16" = 72.4549; 409/8" = 72.5861; 681/16" = 72.6149; 401/8" = 72.7461; 683/16" = 72.8749; 403/8" = 72.9061; 685/16" = 72.9349; 405/8" = 73.0661; 687/16" = 73.1949; 407/8" = 73.3261; 689/16" = 73.4549; 409/8" = 73.5861; 691/16" = 73.6149; 401/8" = 73.7461; 693/16" = 73.8749; 403/8" = 73.9061; 695/16" = 73.9349; 405/8" = 74.0661; 697/16" = 74.1949; 407/8" = 74.3261; 699/16" = 74.4549; 409/8" = 74.5861; 701/16" = 74.6149; 401/8" = 74.7461; 703/16" = 74.8749; 403/8" = 74.9061; 705/16" = 74.9349; 405/8" = 75.0661; 707/16" = 75.1949; 407/8" = 75.3261; 709/16" = 75.4549; 409/8" = 75.5861; 711/16" = 75.6149; 401/8" = 75.7461; 713/16" = 75.8749; 403/8" = 75.9061;

PURGING EQUIPMENT CODES: B = Boiler; BR = Blower; P = Pump; V = Vacuum

WORKING EQUIPMENT CODES: B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) _____

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION <i>H. OBUED PACE</i>		SAMPLER(S) SIGNATURE(S): <i>H. OBUED</i>			SAMPLING INITIATED AT: 1255	SAMPLING ENDED AT: 1255			
PUMP OR TUBING DEPTH IN WELL (feet):	16	TUBING MATERIAL CODE:	HDPF	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 minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	1	SE	1L	COPC	0	8.9	O. NIST DS	APP	< 300
	1	SE	250 mL	HND3	1	< 2	METALS		
	1	SE	250 mL	H2SO4	1	< 2	NH3		
2	15	CS	40 mL	COPC	1	8.9	O. B3 & LBCP		
3	CS	CS	40 mL	HCl	1	< 2	8263		
REMARKS:									

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene

SAMPLING EQUIPMENT CODES: ABP = After Peristaltic Pump; 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;

RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify _____)

OTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA: 2005IRC

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

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

(whichever is greater). Turbidity, all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)



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

SITE NAME: LENA RD LF	SITE LOCATION: 3333 LENARD BRADENTON FL	
WELL NO: GW-22	SAMPLE ID:	DATE: 11-9-18

PURGING DATA

SAMPLING DATA

SAMPLED BY (PRINT / AFFILIATION) <u>H. BISSES / PAC</u>		SAMPLER(S) SIGNATURE(S) <u>H. BISSES</u>			SAMPLING INITIATED AT: <u>11/28</u>	SAMPLING ENDED AT: <u>11/18</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>		TUBING MATERIAL CODE: <u>FIDSE</u>	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: 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)
1	1	SE	1L	CODC	0	5.9	CL, MZ, TDS	APP	<500
1	1	SE	250ml	HNO3	1	<2	METALS		
1	1	SE	250ml	H2SO4	1	<2	NH3		
2	1	CG	40 ml	CIX	1	5.9	EDTA & DPCF		
3	1	CG	40 ml	HCl	1	<2	DDBD		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; Ti = Teflon

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

RFP = Reverse Flow Pump; **B** = Baller; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPiP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **C** = Chlorine (Chlorinator).

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

- 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 (S)**

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



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	CF	SITE LOCATION:	3333 LENA RD. BRADENTON FL
WELL NO:	GW-24	SAMPLE ID:	DATE: 11-9-18	

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)	PURGE PUMP TYPE OR BAILER:
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				<u>1.90</u> <u>RP</u>		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

$$= (22.05 \text{ feet} - 11.90 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.624 \text{ gallons}$$

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): 15 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15 PURGING INITIATED AT: 1243 PURGING ENDED AT: 1300 TOTAL VOLUME PURGED (gallons): 2.55

WELL CAPACITY (Gallons Per Foot): 0.76" = 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. OXIDES / ACE</u>		SAMPLER(S) SIGNATURE(S): <u>H. OXIDES</u>			SAMPLING INITIATED AT: <u>130</u>	SAMPLING ENDED AT: <u>1311</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>15</u>		TUBING MATERIAL CODE: <u>HIDPE</u>	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: 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			
	1	SC	1L	Cool	0	6.4	Cl, NO3-TDS	APP	< 300
	1	SC	250 ml	HNO3	1	< 2	METALS		
	1	SC	250 ml	H2SO4	1	< 2	NH3		
	2	CB	10 ml	Cool	1	6.4	EDTA & TRGS		
	3	CB	10 ml	HCl	1	< 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 ES 2212, SECTION 3)

pH: ± 0.2 units Temperature: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $< 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2 \text{ mg/l}$ or $\pm 10\%$ (whichever is greater) Turbidity: all readings $< 20 \text{ NTU}$; optionally $\pm 5 \text{ NTU}$ or $\pm 10\%$ (whichever is greater)



Document Name:
Groundwater Sampling Log
Document No.:
E-EL-C-021 rev. 00

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

Form FD 9000-24

SITE NAME:	LENA RD L.F	SITE LOCATION:	LENA RD. BRADENTON, FL
WELL NO:	GW-26	SAMPLE ID:	DATE: 11-7-18

PURGING DATA

WELL DIA: 2 TUBING DIA: 1/4 WELL SCREEN INTERVAL DEPTH: feet to feet STATIC DEPTH TO WATER (feet): 9.03 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 feet - 9.03 feet) X .16 gallons/foot = 1.7728 gallons
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PURGE VOLUME / PURGING CAPACITY

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>12</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	<u>12</u>	PURGING INITIATED AT:	<u>2935</u>	PURGING ENDED AT:	<u>2953</u>	TOTAL VOLUME PURGED (gallons):	<u>2,70</u>
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WELL CAPACITY (Gallons Per Foot): $0.75'' = 0.02$; $1'' = 0.04$; $1.25'' = 0.06$; $2'' = 0.16$; $3'' = 0.37$; $4'' = 0.66$; $5'' = 1.02$; $6'' = 1.47$; $12'' = 5.68$
TUBING INSIDE DIA. CAPACITY (Gal/ftL): $1/8'' = 0.0008$; $3/16'' = 0.0014$; $1/4'' = 0.0028$; $5/16'' = 0.004$; $3/8'' = 0.008$; $1/2'' = 0.010$; $5/8'' = 0.014$

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H.BOGUSKI/PACE		SAMPLER(S) SIGNATURE(S): H.BOGUSKI			SAMPLING INITIATED AT: 0954	SAMPLING ENDED AT: 1004			
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type:		FILTER SIZE: _____ μm				
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)			DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>					
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	1	PE	11	COLD	8	8	C, NDB-TDS	APP	<300
1	1	PE	250 ml	HNO3	1	<2	METALS		
1	1	PE	250 ml	H2SO4	1	<2	NH3		
2	CG	40 ml	200C		↓		EDB & DBCP		
3	CG	40 ml	HCL		<2		8260	↓	↓

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; BE = Butyl Ether; BP = Butyl Phenol; C = Coal

MATERIALS USED: 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;
 RFP = 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: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2);
 optionally, $\pm 0.2 \text{ mg/l}$ or $\pm 10\%$ (whichever is greater). Turbidity: all readings $\leq 20 \text{ NTU}$ with a range of $\pm 10\%$.



Document Name:
Groundwater Sampling Log
Page 4 of 4

Document No.:
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December 03, 2012
Issuing Authority:
Pace Florida Quality Office

Form FD 9000-24

SITE NAME: LENA RD C.F	SITE LOCATION: LENA RD. BRADENTON FL	
WELL NO: GW-27	SAMPLE ID: 	DATE: 11-7-18

PURGING DATA

FRACING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to	feet	STATIC DEPTH TO WATER (feet):	8.41	PURGE PUMP TYPE OR BAILER:	PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY									

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY
 (only fill out if applicable) X TUBING LENGTH) + FLOW CELL VOLUME

SAMPLING DATA

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. BISSES / PACE		SAMPLER(S) SIGNATURE(S): H. Bisses			SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: 1048		
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 (Y) N		TUBING Y (N replaced)			DUPPLICATE: 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	2	EE	1L	Cool	0	6.5	Cl, N33, TDS APP	<300
1	2	EE	250mL	HNO3	1	<2	METALS	
1	2	EE	250mL	H2SO4	1	<2	NH3	
2	0G	40mL		Cool	1	6.5	EDB & DBCP	
3	0G	40mL		HCl	1	<2	8260	

REMARKS:

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

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFP = Reverse Flow Peristaltic Pump; SM = Straw Method; ST = Strainer; S = Silicone; T = Teflon;

NOTES: 1. The above do not constitute all of the information required by Chapter 22-100, T.A.C.

1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANCE OF MINIMUM REQUIREMENTS

pH: ± 0.2 units Temperature: $\pm 0.2^\circ\text{C}$ Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $< 20\%$ saturation



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: <i>LENA RD</i>	SITE LOCATION: <i>3333 LENA RD BRADENTON</i>	
WELL NO: <i>TQ</i>	SAMPLE ID:	
		DATE: <i>11-8-18</i>

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): <i>1/4</i>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: <i>BP</i>
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:
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)

(Handwritten notes: CQ, BLANK/C, 1/4")

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; 7" = 2.00; 8" = 2.58*
 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: <i>H. DOUGES / PACE</i>	SAMPLER'S SIGNATURE(S): <i>H. DOUGES</i>	SAMPLING INITIATED AT: <i>1/500</i>	SAMPLING ENDED AT: <i>1/510</i>						
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: <i>HDPE</i>	FIELD-FILTERED: <i>Y</i> <i>N</i>	FILTER SIZE: _____ μm						
FIELD DECONTAMINATION: PUMP <i>Y</i> <i>N</i>	TUBING <i>Y</i> <i>N</i> (replaced)	DUPLICATE: <i>Y</i> <i>N</i>							
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)
1	2	CG	1L	COOL	0		1/TDS NO3 APP <300		
1	2	CG	250 mL	FRD03			METALS		
1	2	CG	250 mL	H2SO4			NH3		
2	1	CG	40 mL	COOL	↓		EDB&DECOP		
3	1	CG	40 mL	41°C	↓		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: ± 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)



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 11-12-18 Time: 2745 Departed Site 11-12-18 Time: _____
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: 3333 LENA RD. BRADENTON
Ambient Conditions: 74°F PARTLY CLOUDY
Brief Description of Field Activities: COLLECT GRAB SAMPLES
Field Equipment Used: YSI MULTI METER, 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: Sea
Physical Characteristics of Sample: orange, murky.

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	DRP
SW-2	11-12-18 0820	BRADENTON	6.24	22.8	1452	0.84	16.3	123.		
SW-1	11-12-18 0830	ORANGE RD	7.04	24.1	1478.1	2.04	12.4	117.1		
D&P	11-12-18 0935									
FELD	11-12-18 0925									

Calibration of Meters

Meter	Y / N	Standard	Slope	Variance	Value

Other Notation's or Anomalies:

SW-2. MURKY, WITH A SHEEN VERY LITTLE WATER NO FLOW.
SW-1 MURKY NO FLOW

APPENDIX B
COMPACT DISK CONTAINING REPORT IN .PDF FORMAT AND
ADaPT FILE